

CLIMATOGRAPHY OF THE U.S. NO. 20  
SUPPLEMENT NO. 1

## FREEZE/FROST DATA

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### Notes

The following are notes referenced in the body of the publication:

1. Probability of a later date in the spring (through July 31) than indicated.
2. Probability of an earlier date in the fall (beginning August 1) than indicated.
3. Probability of a longer than indicated freeze/frost-free period (days).
4. Probability of a freeze/frost day in the yearly period (percentage of days with temperatures at or below the threshold temperature).

## I. Introduction

### A. Contents of the Publication

The recently published Climatography of the United States No. 20: Climatic Summaries for Selected Sites, 1951-80 [1] contained, as part of a comprehensive climatology, probability data related to freezing temperature occurrences for 1,879 locations. This publication contains freeze/frost-related information for 3,106 observation sites within the United States (the 1,879 given in the No. 20s, plus 1,227 additional locations) for which a serially-complete daily maximum/minimum temperature observation data set had been edited and validated at the National Climatic Data Center (NCDC) [2]. Figure 1 shows the observation site distribution of the 3,106 locations in the United States.

The main contents of this summary are freeze/frost probability tables for each station, listed by state. Given are the dates of probable first and last occurrence, during the year beginning August 1 and ending July 31, of freeze-related temperatures; probable durations (in days) where the temperature exceeds certain freeze-related values; and the probability of experiencing a given temperature, or less, during the year period August 1 through July 31. For the fall and spring dates of occurrence, and freeze-free period, probabilities are given for three temperatures (36, 32, and 28°F) at three probability levels (10, 50, and 90 percent). More extensive tables for each station are available on microfiche from the NCDC. Those tables and other related climatological summaries are described, with examples, in Section IV. Lastly, six maps present calendar data related to the probability of occurrence of freeze at two temperature thresholds.

For historical perspective and comparison, an analysis of the 0.98 probability level extreme annual minimum temperatures for the contiguous United States is given in Figure 2. This analysis shows the extreme annual minimum temperatures which can be expected to occur once in 50 years (50-year return period) at a given location. Temperature estimates for locations intermediate to the isolines can be gotten by interpolation (but interpolated values for mountainous regions should be used with caution because large differences in elevation and topographic effects over relatively short distances can cause erroneous interpolations). The analysis is based on daily minimum temperature data from over 2,000 cooperative and first-order observation sites from the beginning of record through 1977 [3].

### B. Data Source and Calculation Method

Data from the NCDC Summary of the Day (SOD) file (TD-3200) were used in producing the Freeze/Frost Data tables. A station's SOD temperature data were subjected to extensive validation and

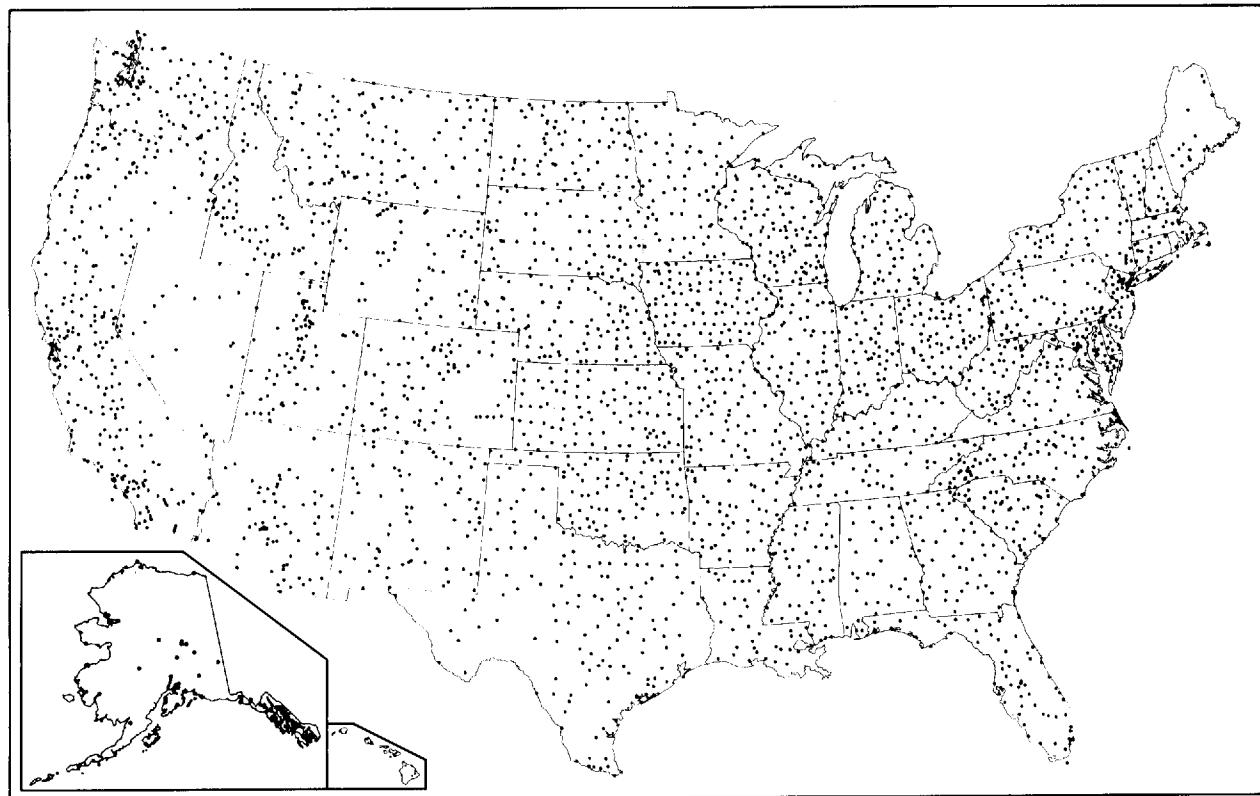


Fig. 1 Observation site distribution (3,106 locations)

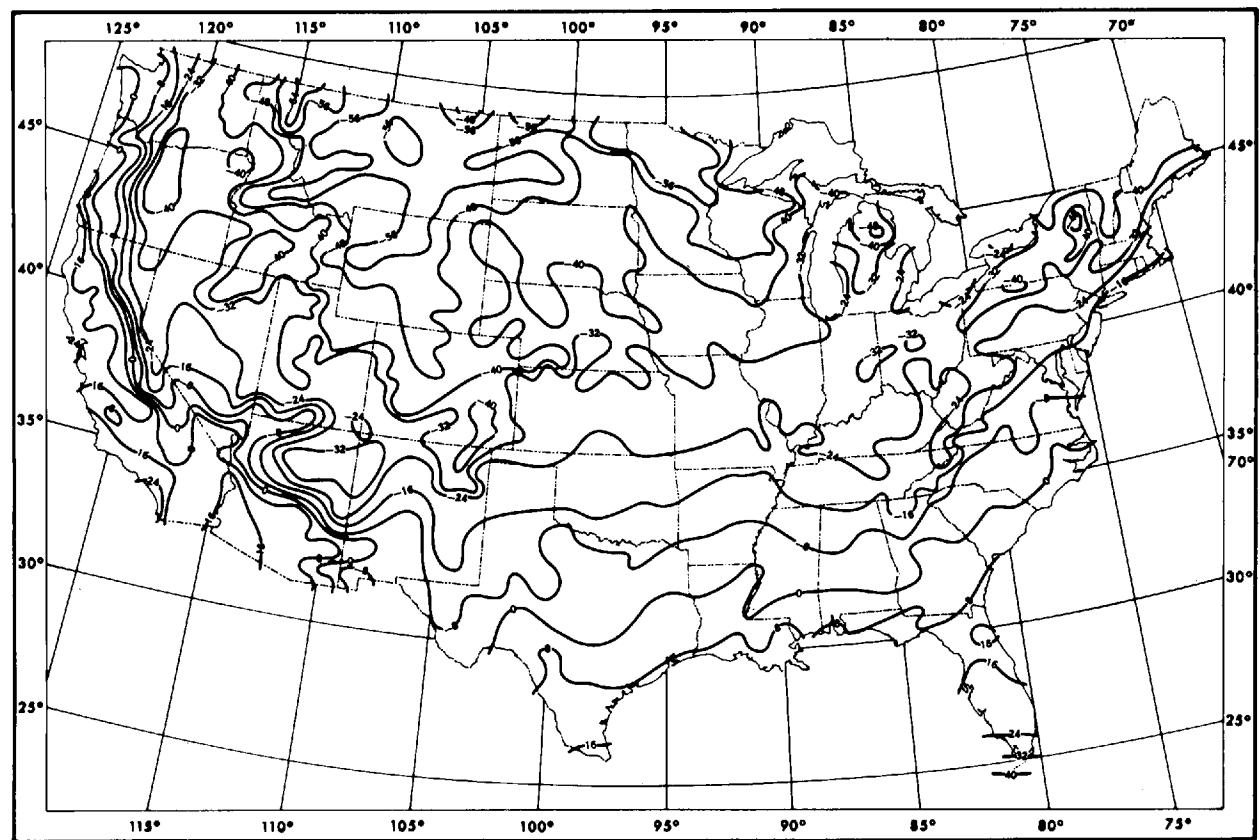


Fig. 2 50-year return period extreme annual minimum temperatures

interpolation procedures based upon a standardized departure from normal in conjunction with those from surrounding stations [2]. As a result, the freeze data were produced from high-quality, serially-complete station records of daily minimum temperature. This alleviated the many possible problems associated with developing freeze statistics from an incomplete and poor quality data set. The period-of-record for the temperature data is 1951 through 1980.

Yearly station values of the last spring and first fall occurrences of selected low temperatures were chosen for the period 1951 through 1980. These spring and fall distributions were then used in producing freeze dates associated with specified probability levels. The low temperature thresholds were the values of 36, 32, 28, 24, 20, and 16°F. All freeze dates were based upon the season August 1 through July 31 for each threshold temperature. Last spring dates of occurrence were chosen for the period August 1 of the previous year through July 31 of the selected year (e.g., spring season for 1961 runs from August 1, 1960, through July 31, 1961, except 1951 which begins on January 1). First fall dates of occurrence were chosen for the period August 1 of the selected year through July 31 of the next year (e.g., fall season for 1961 runs from August 1, 1961, through July 31, 1962, except 1980 which ends on December 31). This season definition is an improvement over those previously used [4, 5, 6] (e.g., (1) the period July 1 through June 30, and (2) the two seasons - fall (from July 1 through December 31) and spring (from January 1 through June 30)) because the new season definition coincides more closely with the annual march of temperature in which the warmest time of year occurs closer to August 1, and the cold season extends from December through January allowing for first 'fall' freezes which sometimes occur after December 31. The change of season definition produces more realistic dates in the extreme northern and mountainous regions of the United States where temperatures frequently are at or below the threshold temperatures near the June 30 date. However, it is important to note that the change of season definition has no effect on other stations where temperatures are warmer than the preselected temperature during the summer.

The estimation of freeze probabilities was based upon the work of Thom and Shaw [4] and Thom [5] which was later modified by Vestal [6]. The selected probabilities were .1 through .9 in increments of .1. A date associated with each of the preselected probability levels was computed for the last spring and first fall freeze seasons. Similarly, the number of days associated with the freeze-free period was computed for each probability level. The probability levels represent the risk the user is willing to accept with regard to meeting or falling below a certain temperature threshold by a specific date, or within a specified number of days. For example, suppose the .90 probability level for the spring season is computed to be March 1 at the 32° threshold. This means that nine years out of ten a temperature as cold or

colder than 32° is expected to occur later than March 1 during the spring season. For the fall season, the probability level represents the chance (risk) of having a temperature as cold or colder earlier than the computed date. The freeze-free probability level indicates the chance of having a longer freeze-free period than the computed number of days. It is to be noted that, in comparison with stations that have freeze occurrences every season, stations for which some annual seasons in the period-of-record experience no freeze occurrences have freeze dates which are relatively earlier in the spring and later in the fall at each probability level, or a date might not exist for a specified probability of threshold temperature occurrence. This results from the method used for computing the freeze probabilities from the combination of two data distributions: a discrete freeze or no-freeze distribution, where a no-freeze annual season is one in which only one or no freeze occurs; and a continuous one of freeze dates for the years of freeze occurrence, where at least two distinct freeze dates occur in a year [5, 6]. Similarly, the effect of the freezeless years is to increase the number of days in the freeze-free period at each probability level. (The number of spring and fall freeze occurrence seasons, which were used in the probability calculations, are given in the extended data tables on microfiche described in Section D.3.b.)

The probabilities of a freeze/frost day in the yearly period were calculated from an enumeration of daily occurrences of the threshold temperatures during the 30-year period. The tabulated value is the average percentage of days in a year with temperatures at or below the threshold.

#### C. Uses of Freeze/Frost Data

Freezing temperatures can seriously affect commercial and industrial operations, especially those with principal activities in an outside environment. But, the most significant hazards of freeze conditions are in agriculture where late spring freezes, early fall freezes, and short growing seasons can seriously impact plant production and crop volume. The classification of freeze temperatures is usually based on their effect on plants, with the following commonly accepted classification [7]:

Light Freeze: 29°F to 32°F -- tender plants killed, with little destructive effect on other vegetation.

Moderate Freeze: 25°F to 28°F -- widely destructive effect on most vegetation with heavy damage to fruit blossoms, tender and semi-hardy plants.

Severe Freeze: 24°F and less -- heavy damage to most plants. At these temperatures, the ground freezes solid, with the depth of the frozen ground dependent on the duration and severity of the freeze, soil moisture, and soil type.

Freeze/frost probabilities are presented for several temperature thresholds from 36°F through 16°F (36, 32, and 28°F in the Data Tables, Section II; and 36, 32, 28, 24, 20, and 16°F in the tables on microfiche), which include those for the freeze classification described above. Temperature observations are usually made at a screen/shelter height of approximately five feet above the surface, and very often the ground surface temperatures can be 4-8°F less than the shelter readings [8]. A 36°F shelter temperature is, therefore, a good indicator of frost at the crop level for most locations in the area; similarly the severity of freeze can be more than that indicated by freezing temperatures at the shelter level. Lower ground surface minimum temperatures result from radiational cooling and/or nocturnal cold air drainage (pooling). Local topography has a most pronounced effect on near ground minimum temperatures, with narrow valleys and enclosed basins experiencing cold air drainage most frequently. Local terrain data can often be used with minimum temperature data and probabilities to give a better assessment of area-wide freeze/frost occurrence [9].

Freeze/frost probabilities allow the temperature data user to assess the risk of undertaking his operation during a certain time period as opposed to the use of averages or means. (Previous climate atlases usually depict the average length of the growing season, and average first and last dates of freeze temperatures [10].) This capability is especially useful in agriculture where the risk of crop production associated with planting dates, the length of the growing season, and potential destruction of immature and/or tender vegetation is a determining factor in the farm management strategy. Similar concerns occur in other commercial/industrial operations with regards to scheduling, in order to optimize productivity during favorable temperature conditions. Some examples of temperature-dependent businesses are highway construction, waterworks projects, inland waterway shipping, and large-scale construction. By using the probability data, the user knows the chance of misfortune that accompanies operations at freeze-related temperatures. For example, the Freeze/Frost Occurrence Data tables can be used to determine the chance, by a certain date, of the first frost (36°F shelter temperature), or the first light freeze (32°F), or the first moderate freeze (28°F) in the fall. Analogous data are given for the last occurrence in the spring. The chance of having a period of specified duration (in days) for which the temperature exceeds a specified freeze-related temperature is given in the Freeze-Free Period part of the table. Frost-free periods are those for which the daily minimum shelter temperature exceeds the threshold value of 36°F. An example of the use of freeze/frost temperatures in the assessment of risk in fruit growing is given by Stewart, et al. [11].

D. Discussion of the Tables, Maps, and Related Summaries

1. Freeze/Frost Occurrence Data Tables (Section II).

These tables give the probability of a later date in the spring and an earlier date in the fall of the occurrence of temperatures as cold, or colder, than 36, 32, and 28°F; the probable length of the freeze-free period relative to the same temperature threshold; and the probability of a freeze day (at those temperatures, or lower) in the yearly period August 1 through July 31. (The NOTES further describe the tabulated values.)

As examples of some uses of the tables, for Andalusia, Alabama (see Section II, page 1): (a) there is only a ten percent chance that the first moderate freeze (28°F) in the fall will occur by October 31 (or a 90 percent chance it will occur after that date<sup>1</sup>), whereas, there is a 90 percent chance one will occur by December 8; (b) there is a ten percent chance of a late spring light freeze (32°F) after April 19, but a 90 percent chance of a freeze after February 28; (c) there is a 90 percent chance that a frost-free (36°F) period from spring to fall will exceed 168 days (or a ten percent chance it will be equal to or less than that number<sup>1</sup>), but only a ten percent chance that the period will be longer than 241 days; and (d) on the average, nine percent (32 days) of the annual period will have temperatures of 28°F, or colder. For some locations and temperatures a date may not exist after (or before) which there is a specified probability of occurrence [6]; for example, at Ajo, Arizona (see Section II, page 3), there are no dates for which there is a 90 percent probability of a later date spring freeze at the 32 and 28°F thresholds, and for which there is a 90 percent probability of an earlier fall freeze at those temperatures. In such cases, the probability of reaching a specified temperature threshold by a certain date is less than the preselected column value probability; the more complete probability tables for Ajo (available on microfiche; see Figure 3) show a highest probability of 80 percent (with a date of December 14) at the 32°F threshold, and 50 percent (December 12) at 28°F. The possibility of a freeze-free period longer than a year is indicated in the tables by the '> 365' entry; for Ajo there is a ten percent chance of this occurrence at all temperature thresholds, and (from the printed table) a 50 percent chance at the 28°F threshold.

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1. NB. The complement probability statement can be made only if all years in the period-of-record had occurrences of the stated temperature threshold. The number of yearly periods with freeze temperature thresholds is given in the extended data tables on microfiche.

For some specified temperature thresholds, the occurrences of a freezeless yearly period at a station, such as Ajo, are often accompanied by yearly periods in which the observed first fall/last spring freeze dates are coincident or differ by only several days. This is typical at many stations in the southern states, and at those stations the designation of fall or spring (with respect to the occurrence of freeze threshold temperatures) is truly ambiguous. For example, at Ajo (again), the 28°F threshold temperature criteria gave 13 freezeless yearly periods in the 30-year period 1951-80 (see extended table on microfiche - Figure 3); in two seasons there was a single freeze which resulted in identical dates for the first fall and last spring freeze; in five seasons the first fall and last spring freeze dates differed by one day; and in three seasons there was a two-day difference. These situations can lead to a seeming paradox in the freeze date probabilities; at Ajo, the table shows there is only a ten percent chance of a 28°F fall freeze threshold occurrence before December 15, while there is a 50 percent chance of a spring freeze occurrence later than December 12. With only a .57 probability (17 yearly periods of 30) of a freeze, the definition of 'season' (spring or fall) for Ajo has become problematic. But, even in these cases, the distribution statistics can give very useful information; for example, at Ajo there is only a ten percent chance of a moderate freeze before December 15 and later than February 8, which is certainly a good indication of low risk periods.

When using the tables to determine risk relative to a specific application (agriculture, construction, etc.), the user should note the possible significant change in risk which can occur over a very short time span; i.e., at many locations the risk changes by 40 percent in less than three weeks. The economic aspects of such risk changes can be consequential with regard to crop production, construction scheduling, etc.

## 2. Freeze/Frost Occurrence Probability Maps (Section III)

Six maps were constructed from data given in the probability tables. These maps differ from maps previously published in that they present data from the tails of the probability distributions instead of mean dates of first/last occurrence of specified temperatures, and mean lengths of freeze-free/growing season periods (e.g., see Baldwin [10]). The map presentations are: isochronal analyses of the ten percent chance of a later date in the spring of the occurrence of 32°F or less, and 28°F or less (two maps); similar analyses for an earlier date in the fall; and isochronal analyses of the 90 percent chance of a longer duration than indicated freeze-free period for the same temperature thresholds (two maps). These maps provide time/date information at risk levels which are more useful than that given by mean data; e.g., for agriculture purposes, it is more important to know that there is a 90 percent chance that the freeze-free period will be longer than a given value (or only a ten percent chance that it

will be shorter) than to know that there is an equal (50-50) chance of the period being longer (or shorter) than a given value. Similarly, the knowledge that there is only a ten percent chance of a given temperature threshold occurrence earlier than a stated date in the fall, or later than a date in the spring, has a better risk application than a knowledge of mean dates of first fall or last spring occurrence of those temperatures. Also, these maps give the spatial variation of this risk information on an approximate county scale; they were analyzed on the basis of the plotted data from the 3,106 observation sites with reference to local topography (as is evidenced by the analyses for the western states).

With respect to the use of the maps, several comments and cautions should be noted:

a. The shaded interval between the boundary contour values represents the area where the parameter values range between the indicated line values. For most regional areas, a representative value for a chosen location is reasonably given by an interpolated value, but a more representative estimate is usually given by the tabulated value for a nearby observation site.

b. Because of the station density and the scale of the topography, the analyzed isopleths are somewhat generalized and may depart to some extent from actual local conditions. Such factors as local topography, sharp changes in elevation, slope of the land, soil type, vegetative cover, proximity to water (oceans, rivers, lakes, ponds, marshes, etc.), air drainage influences, and urban heat effects must be considered when interpolating values for specific locations.

c. In Hawaii, some temperature thresholds are reached only at higher elevations above 2,500 feet. For the specific locations, refer to the probability tables.

d. In most areas of northern Alaska, freezes occur every month of the year.

### 3. Freeze/Frost-Related Summaries and Products (Section IV)

a. Station Information: The latitude, longitude, elevation (feet), and state map location for each of the 3,106 observation sites used in this summary are given in the individual statewide publication, Climatography of the United States No. 81: Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days, 1951-80 [12]. Note: Not all of the temperature normals stations were used for this summary because of (1) station relocations during the period-of-record which affected daily temperature records; and (2) in some cases, missing daily temperature data (the normals were calculated from monthly average data) precluded the summarization of freeze dates.

b. Extended Tables of Freeze/Frost Data: Tables, which contain data for probabilities .1 through .9 in increments of .1 versus temperature thresholds of 36, 32, 28, 24, 20, and 16°F, are available on microfiche, by state, for all the sites given in this publication. Figure 3 gives an example of one station table. Each microfiche gives the tables for all stations within a state, a station list, and a state station distribution map which is keyed to the station list. These extended probability tables augment those in this publication, and can be very useful in risk evaluation situations which require finer delineation of occurrences. The extended tables also include values for the number of years within the period-of-record with freeze temperature threshold occurrences, which are useful when evaluating freeze risk in areas with freezeless yearly periods. These values were used in the calculation of the freeze/frost occurrence data.

c. Climatological Summary Information: Climate data, which can be used in solving problems in a wide range of activities such as agriculture, industry, construction, etc., can be found in the Climatography of the United States No. 20: Climatic Summaries for Selected Sites [1, 13]. Summaries for 1,879 of the locations given in this publication are available in the latest issue, which contains data from the period 1951-80. An example of the contents of that issue is given in Figure 4, which shows a general climatological summary, degree day information, precipitation probabilities, and growing degree units. Summaries are available for each site, or by state groupings. A complete description of all issues of the No. 20 is given in the NCDC publication, Environmental Information Summary C-26 [13]. Station lists, by state, are also available.

d. Cumulative Growing Degree Units: Growing degree units are often used in agriculture as a guide in crop scheduling. They relate air temperature to plant growth and maturation, and are sometimes used for classifying regional agroclimates [14]. Tables of growing degree units are available in the No. 20 publication described above [1].

Graphs of cumulative daily growing degree units for the bases 40, 45, 50, 55, and 60°F are available for all locations listed in this publication. The data were calculated from the serially-complete station records of daily maximum and minimum temperature, which were used to produce the Freeze/Frost Data tables (see Section I.B.). The graphs are on microfiche, by state; the microfiche also contains a state station list, and a state station distribution map keyed to the station list. Each graph also shows freeze/frost probability information for the 32°F threshold temperature. Figure 5 illustrates the graph for Andalusia, Alabama. The sample is labeled to describe the various types of information that can be gotten from it: growing degree units cumulated to any day of the calendar year; and spring/fall freeze dates for probabilities ranging from ten percent to 90 percent. As examples (at Andalusia): by November 1, the average

cumulated degree unit value (base 40°F) is approximately 8,400 units; there is a 50 percent chance of a spring freeze at the 32°F threshold later than March 25; and, there is a 50 percent chance of a fall freeze at the 32°F threshold earlier than November 8. Probable freeze-free periods can be read from the graph, but those estimates are approximations which can differ significantly from the tabulated values -- the tabulated values were calculated from a probability distribution which was independent of the spring/fall distributions. The probability scale for the freeze-free period from the graph is one minus the probability for the spring/fall dates.

The above listed information is available from the National Climatic Data Center. Ordering information is given in a following section.

#### E. References

1. Climatography of the United States No. 20: Climatic Summaries for Selected Sites, 1951-80. U.S. Department of Commerce, National Climatic Data Center, Asheville, NC; 1984. (Available for individual sites, and by state groupings.)
2. Steurer, P., 1985: Creation of a Serially Complete Database of High Quality Daily Maximum and Minimum Temperatures. Unpublished technical note available upon request from the Statistical Climatology Branch, National Climatic Data Center.
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9. Laughlin, G.P., and Kalma, J.D., 1987: Frost Hazard Assessment from Local Weather and Terrain Data. Agricultural and Forest Meteorology, 40; 1-16.

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11. Stewart, T.R., Katz, R.W., and Murphy, A.H., 1984: Value of Weather Information: A Descriptive Study of the Fruit-Frost Problem. Bulletin of the American Meteorological Society, 65; 126-137.

12. Climatography of the United States No. 81: Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days, 1951-80. U.S. Department of Commerce, National Climatic Data Center, Asheville, NC; 1982. (Available by state.)

13. Climatography of the United States No. 20. Environmental Information Summaries C-26. U.S. Department of Commerce, National Climatic Data Center, Asheville, NC; 1985; 15 pp.

14. Van Den Brink, C., Strommen, N.D., and Kenworthy, A.L., 1971: Growing Degree Days in Michigan. Michigan State University Agricultural Experiment Station Research Report No. 131; 50 pp.

#### F. Acknowledgements

Various members of the Climatological Analysis Division, NCDC, contributed to the production of this publication: Larry Nicodemus developed and programmed graphics for both publication copy and microfiche; Mike Burgin superbly produced the final-copy maps; Claude Hensley and Al McGahee provided computer and data quality control support; Phyllis Taylor translated the manuscript into typed copy; and Frank Quinlan gave much appreciated technical interpretation of the climatological data.

The graphs of cumulative growing degree units and freeze probabilities were modeled after those given by Van Den Brink, Strommen, and Kenworthy in Growing Degree Days in Michigan [14].

#### G. Ordering Information

The data described in this report are available from the NCDC as either paper copy, or on magnetic tape or microfiche.

Other climatological data of interest are available in a variety of summaries and formats, such as the Climatography of the United States No. 60: Climate of States; No. 81: Monthly Normals (and Supplements): Annual Degree Days to Selected Bases Derived from the 1951-80 Normals, and Monthly Precipitation Probabilities,

Selected Probability Levels Derived from the 1951-80 Normals; No.  
84: Daily Normals; and, No. 85: Divisional Normals. A variety  
of other data is available either on magnetic tape, microfiche, or  
paper copy. To obtain information, contact:

Director  
National Climatic Data Center  
Federal Building  
Asheville, NC 28801-2696  
or telephone: (704) 259-0682

## II. Data Tables

### Notes

The following are notes referenced in the tables:

1. Probability of a later date in the spring (through July 31) than indicated.
2. Probability of an earlier date in the fall (beginning August 1) than indicated.
3. Probability of a longer than indicated freeze/frost-free period (days).
4. Probability of a freeze/frost day in the yearly period (percentage of days with temperatures at or below the threshold temperature).

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| ALABAMA                   |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| ANDALUSIA 1 NW            | 36                            | MAR 13                  | APR 06 | APR 30 | OCT 09                  | OCT 28 | NOV 16 | 241                     | 204 | 168 | 20                                |  |
|                           | 32                            | FEB 28                  | MAR 25 | APR 19 | OCT 21                  | NOV 08 | NOV 25 | 261                     | 227 | 193 | 14                                |  |
|                           | 28                            | JAN 31                  | FEB 28 | MAR 27 | OCT 31                  | NOV 19 | DEC 08 | 303                     | 263 | 224 | 9                                 |  |
| ANNISTON FAA AP           | 36                            | MAR 26                  | APR 11 | APR 28 | OCT 09                  | OCT 23 | NOV 06 | 214                     | 194 | 175 | 24                                |  |
|                           | 32                            | MAR 15                  | MAR 30 | APR 13 | OCT 21                  | NOV 01 | NOV 12 | 236                     | 215 | 195 | 17                                |  |
|                           | 28                            | FEB 24                  | MAR 14 | MAR 31 | OCT 27                  | NOV 11 | NOV 26 | 264                     | 241 | 219 | 11                                |  |
| BAY MINETTE               | 36                            | MAR 07                  | MAR 20 | APR 01 | OCT 26                  | NOV 09 | NOV 23 | 250                     | 234 | 217 | 12                                |  |
|                           | 32                            | FEB 15                  | MAR 06 | MAR 24 | OCT 31                  | NOV 20 | DEC 10 | 288                     | 259 | 230 | 7                                 |  |
|                           | 28                            | JAN 27                  | FEB 20 | MAR 15 | NOV 13                  | DEC 03 | DEC 24 | 318                     | 286 | 254 | 4                                 |  |
| BELLE MINA 2 N            | 36                            | MAR 29                  | APR 12 | APR 27 | OCT 06                  | OCT 19 | NOV 01 | 204                     | 189 | 173 | 26                                |  |
|                           | 32                            | MAR 25                  | APR 05 | APR 16 | OCT 16                  | OCT 29 | NOV 11 | 221                     | 206 | 191 | 19                                |  |
|                           | 28                            | MAR 02                  | MAR 20 | APR 06 | OCT 24                  | NOV 06 | NOV 20 | 252                     | 231 | 210 | 13                                |  |
| BIRMINGHAM WSO            | 36                            | MAR 27                  | APR 10 | APR 23 | OCT 13                  | OCT 25 | NOV 07 | 213                     | 198 | 183 | 22                                |  |
|                           | 32                            | MAR 13                  | MAR 29 | APR 14 | OCT 24                  | NOV 06 | NOV 18 | 240                     | 221 | 202 | 16                                |  |
|                           | 28                            | FEB 23                  | MAR 13 | APR 01 | OCT 29                  | NOV 13 | NOV 28 | 270                     | 244 | 219 | 10                                |  |
| BREWTON 3 SSE             | 36                            | MAR 31                  | APR 14 | APR 28 | OCT 05                  | OCT 21 | NOV 06 | 209                     | 189 | 169 | 20                                |  |
|                           | 32                            | MAR 18                  | MAR 31 | APR 13 | OCT 12                  | OCT 28 | NOV 14 | 231                     | 211 | 192 | 14                                |  |
|                           | 28                            | FEB 19                  | MAR 10 | MAR 30 | OCT 26                  | NOV 09 | NOV 23 | 269                     | 243 | 217 | 9                                 |  |
| CHATOM 3 N                | 36                            | MAR 20                  | APR 07 | APR 25 | OCT 14                  | OCT 26 | NOV 08 | 223                     | 201 | 180 | 18                                |  |
|                           | 32                            | MAR 11                  | MAR 29 | APR 16 | OCT 23                  | NOV 07 | NOV 21 | 245                     | 222 | 199 | 13                                |  |
|                           | 28                            | FEB 13                  | MAR 09 | APR 02 | OCT 29                  | NOV 17 | DEC 06 | 284                     | 252 | 220 | 8                                 |  |
| CLANTON                   | 36                            | MAR 26                  | APR 11 | APR 27 | OCT 07                  | OCT 21 | NOV 05 | 212                     | 193 | 174 | 25                                |  |
|                           | 32                            | MAR 17                  | MAR 30 | APR 11 | OCT 18                  | OCT 30 | NOV 11 | 231                     | 214 | 197 | 19                                |  |
|                           | 28                            | FEB 20                  | MAR 13 | APR 03 | OCT 26                  | NOV 09 | NOV 23 | 263                     | 241 | 218 | 12                                |  |
| DAYTON                    | 36                            | MAR 20                  | APR 04 | APR 18 | OCT 16                  | OCT 27 | NOV 08 | 225                     | 206 | 187 | 19                                |  |
|                           | 32                            | MAR 05                  | MAR 20 | APR 03 | OCT 25                  | NOV 07 | NOV 20 | 250                     | 232 | 213 | 13                                |  |
|                           | 28                            | FEB 07                  | MAR 02 | MAR 25 | NOV 03                  | NOV 19 | DEC 05 | 289                     | 261 | 233 | 7                                 |  |
| DEMOPOLIS LOCK AND DAM    | 36                            | MAR 19                  | MAR 31 | APR 13 | OCT 17                  | OCT 28 | NOV 09 | 225                     | 210 | 195 | 22                                |  |
|                           | 32                            | FEB 28                  | MAR 18 | APR 05 | OCT 22                  | NOV 06 | NOV 22 | 254                     | 232 | 211 | 15                                |  |
|                           | 28                            | FEB 09                  | MAR 03 | MAR 24 | OCT 28                  | NOV 18 | DEC 08 | 286                     | 259 | 232 | 9                                 |  |
| EUFAULA                   | 36                            | MAR 24                  | APR 07 | APR 21 | OCT 09                  | OCT 24 | NOV 07 | 221                     | 199 | 178 | 20                                |  |
|                           | 32                            | MAR 03                  | MAR 20 | APR 06 | OCT 24                  | NOV 07 | NOV 20 | 252                     | 231 | 209 | 14                                |  |
|                           | 28                            | FEB 09                  | MAR 05 | MAR 28 | OCT 31                  | NOV 17 | DEC 04 | 285                     | 256 | 227 | 8                                 |  |
| EVERGREEN                 | 36                            | MAR 19                  | APR 02 | APR 17 | OCT 14                  | OCT 30 | NOV 15 | 230                     | 210 | 190 | 20                                |  |
|                           | 32                            | MAR 07                  | MAR 22 | APR 07 | OCT 26                  | NOV 08 | NOV 21 | 252                     | 230 | 208 | 14                                |  |
|                           | 28                            | FEB 11                  | MAR 02 | MAR 22 | OCT 31                  | NOV 18 | DEC 06 | 290                     | 260 | 230 | 8                                 |  |
| FAIRHOPE 2 NE             | 36                            | FEB 23                  | MAR 15 | APR 03 | OCT 30                  | NOV 14 | NOV 28 | 265                     | 243 | 222 | 10                                |  |
|                           | 32                            | FEB 03                  | FEB 25 | MAR 19 | NOV 05                  | NOV 25 | DEC 14 | 300                     | 272 | 244 | 6                                 |  |
|                           | 28                            | JAN 10                  | FEB 10 | MAR 12 | NOV 16                  | DEC 06 | DEC 28 | 337                     | 298 | 268 | 3                                 |  |
| FAYETTE                   | 36                            | APR 03                  | APR 17 | MAY 01 | OCT 04                  | OCT 17 | OCT 31 | 202                     | 183 | 163 | 27                                |  |
|                           | 32                            | MAR 22                  | APR 06 | APR 22 | OCT 14                  | OCT 27 | NOV 08 | 220                     | 203 | 185 | 20                                |  |
|                           | 28                            | FEB 27                  | MAR 17 | APR 05 | OCT 23                  | NOV 06 | NOV 20 | 258                     | 233 | 209 | 13                                |  |
| FRISCO CITY               | 36                            | MAR 15                  | MAR 29 | APR 12 | OCT 22                  | NOV 03 | NOV 15 | 236                     | 218 | 201 | 17                                |  |
|                           | 32                            | FEB 27                  | MAR 16 | APR 02 | OCT 28                  | NOV 13 | NOV 28 | 263                     | 241 | 218 | 11                                |  |
|                           | 28                            | JAN 30                  | FEB 24 | MAR 21 | NOV 05                  | NOV 25 | DEC 15 | 307                     | 274 | 240 | 6                                 |  |
| GADSDEN STEAM PLANT       | 36                            | MAR 26                  | APR 14 | MAY 02 | OCT 09                  | OCT 23 | NOV 05 | 213                     | 191 | 169 | 26                                |  |
|                           | 32                            | MAR 20                  | APR 04 | APR 18 | OCT 18                  | NOV 02 | NOV 17 | 235                     | 212 | 189 | 19                                |  |
|                           | 28                            | FEB 26                  | MAR 17 | APR 05 | OCT 24                  | NOV 08 | NOV 23 | 260                     | 235 | 211 | 12                                |  |
| HALEYVILLE                | 36                            | APR 01                  | APR 14 | APR 27 | OCT 05                  | OCT 20 | NOV 04 | 205                     | 188 | 171 | 28                                |  |
|                           | 32                            | MAR 26                  | APR 07 | APR 18 | OCT 13                  | OCT 28 | NOV 11 | 221                     | 203 | 186 | 22                                |  |
|                           | 28                            | MAR 08                  | MAR 23 | APR 06 | OCT 25                  | NOV 07 | NOV 20 | 249                     | 229 | 208 | 15                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| ALABAMA                   |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| HEADLAND                  | 36                            | MAR 10                  | MAR 25 | APR 09 | OCT 22                  | NOV 07 | NOV 22 | 243                     | 226 | 208 | 15                                |  |
|                           | 32                            | FEB 09                  | MAR 07 | APR 01 | OCT 26                  | NOV 12 | NOV 29 | 280                     | 250 | 220 | 10                                |  |
|                           | 28                            | JAN 25                  | FEB 19 | MAR 17 | NOV 09                  | DEC 01 | DEC 23 | 315                     | 284 | 253 | 5                                 |  |
| HIGHLAND HOME             | 36                            | MAR 19                  | MAR 31 | APR 13 | OCT 19                  | NOV 01 | NOV 13 | 231                     | 214 | 196 | 17                                |  |
|                           | 32                            | MAR 03                  | MAR 18 | APR 02 | OCT 27                  | NOV 11 | NOV 27 | 261                     | 237 | 214 | 11                                |  |
|                           | 28                            | FEB 05                  | FEB 28 | MAR 22 | NOV 06                  | NOV 26 | DEC 16 | 305                     | 271 | 237 | 6                                 |  |
| LAFAYETTE                 | 36                            | MAR 26                  | APR 08 | APR 21 | OCT 10                  | OCT 23 | NOV 04 | 215                     | 197 | 179 | 21                                |  |
|                           | 32                            | MAR 14                  | MAR 28 | APR 11 | OCT 20                  | NOV 03 | NOV 17 | 241                     | 219 | 197 | 15                                |  |
|                           | 28                            | FEB 22                  | MAR 14 | APR 02 | OCT 29                  | NOV 11 | NOV 24 | 265                     | 241 | 218 | 9                                 |  |
| MARION JUNCTION 2 NE      | 36                            | MAR 22                  | APR 04 | APR 17 | OCT 12                  | OCT 26 | NOV 09 | 219                     | 204 | 189 | 20                                |  |
|                           | 32                            | MAR 07                  | MAR 21 | APR 05 | OCT 22                  | NOV 05 | NOV 19 | 248                     | 228 | 208 | 15                                |  |
|                           | 28                            | FEB 15                  | MAR 07 | MAR 27 | OCT 30                  | NOV 13 | NOV 27 | 274                     | 251 | 227 | 9                                 |  |
| MOBILE HSO                | 36                            | FEB 27                  | MAR 14 | MAR 29 | OCT 30                  | NOV 14 | NOV 28 | 262                     | 244 | 227 | 10                                |  |
|                           | 32                            | FEB 06                  | FEB 27 | MAR 19 | NOV 05                  | NOV 26 | DEC 17 | 302                     | 272 | 241 | 6                                 |  |
|                           | 28                            | JAN 11                  | FEB 09 | MAR 10 | NOV 14                  | DEC 09 | JAN 03 | 336                     | 301 | 269 | 3                                 |  |
| MUSCLE SHOALS FAA AP      | 36                            | MAR 27                  | APR 08 | APR 20 | OCT 12                  | OCT 24 | NOV 06 | 214                     | 199 | 184 | 25                                |  |
|                           | 32                            | MAR 13                  | MAR 27 | APR 10 | OCT 22                  | NOV 04 | NOV 17 | 241                     | 222 | 203 | 18                                |  |
|                           | 28                            | FEB 28                  | MAR 16 | MAR 31 | OCT 26                  | NOV 11 | NOV 26 | 260                     | 239 | 219 | 11                                |  |
| ONEONTA                   | 36                            | APR 08                  | APR 22 | MAY 06 | OCT 03                  | OCT 14 | OCT 25 | 193                     | 174 | 156 | 30                                |  |
|                           | 32                            | MAR 27                  | APR 09 | APR 22 | OCT 11                  | OCT 25 | NOV 08 | 216                     | 198 | 181 | 23                                |  |
|                           | 28                            | MAR 12                  | MAR 27 | APR 10 | OCT 24                  | NOV 07 | NOV 22 | 246                     | 225 | 204 | 16                                |  |
| OZARK 6 NNW               | 36                            | MAR 10                  | MAR 25 | APR 10 | OCT 25                  | NOV 07 | NOV 20 | 248                     | 226 | 204 | 14                                |  |
|                           | 32                            | FEB 21                  | MAR 13 | APR 01 | OCT 31                  | NOV 15 | NOV 30 | 274                     | 247 | 219 | 9                                 |  |
|                           | 28                            | FEB 01                  | FEB 23 | MAR 18 | NOV 07                  | NOV 28 | DEC 18 | 309                     | 277 | 244 | 5                                 |  |
| ROBERTSDALE 1 E           | 36                            | MAR 10                  | MAR 26 | APR 10 | OCT 24                  | NOV 07 | NOV 21 | 249                     | 226 | 202 | 13                                |  |
|                           | 32                            | FEB 13                  | MAR 05 | MAR 25 | OCT 27                  | NOV 19 | DEC 11 | 290                     | 258 | 227 | 8                                 |  |
|                           | 28                            | FEB 06                  | FEB 26 | MAR 17 | NOV 08                  | NOV 30 | DEC 22 | 309                     | 277 | 244 | 4                                 |  |
| ROCK MILLS                | 36                            | APR 06                  | APR 19 | MAY 03 | OCT 05                  | OCT 16 | OCT 28 | 196                     | 179 | 162 | 29                                |  |
|                           | 32                            | MAR 26                  | APR 09 | APR 23 | OCT 13                  | OCT 26 | NOV 09 | 215                     | 199 | 184 | 22                                |  |
|                           | 28                            | MAR 08                  | MAR 22 | APR 06 | OCT 27                  | NOV 08 | NOV 20 | 248                     | 230 | 212 | 15                                |  |
| SAINT BERNARD             | 36                            | APR 01                  | APR 18 | MAY 06 | OCT 04                  | OCT 16 | OCT 28 | 198                     | 180 | 162 | 31                                |  |
|                           | 32                            | MAR 26                  | APR 09 | APR 24 | OCT 14                  | OCT 25 | NOV 06 | 216                     | 198 | 181 | 24                                |  |
|                           | 28                            | MAR 14                  | MAR 28 | APR 11 | OCT 24                  | NOV 06 | NOV 20 | 240                     | 223 | 205 | 18                                |  |
| SAND MT SUBSTA AU         | 36                            | APR 03                  | APR 18 | MAY 04 | OCT 05                  | OCT 18 | OCT 30 | 203                     | 182 | 161 | 26                                |  |
|                           | 32                            | MAR 24                  | APR 05 | APR 17 | OCT 16                  | OCT 29 | NOV 10 | 223                     | 206 | 189 | 19                                |  |
|                           | 28                            | MAR 10                  | MAR 24 | APR 07 | OCT 21                  | NOV 06 | NOV 22 | 245                     | 226 | 208 | 13                                |  |
| SCOTTSBORO                | 36                            | APR 07                  | APR 22 | MAY 07 | OCT 04                  | OCT 17 | OCT 31 | 199                     | 178 | 157 | 30                                |  |
|                           | 32                            | MAR 26                  | APR 09 | APR 22 | OCT 09                  | OCT 25 | NOV 10 | 215                     | 199 | 183 | 23                                |  |
|                           | 28                            | MAR 11                  | MAR 26 | APR 10 | OCT 22                  | NOV 04 | NOV 17 | 237                     | 222 | 206 | 16                                |  |
| SELMA                     | 36                            | MAR 15                  | MAR 29 | APR 12 | OCT 21                  | NOV 04 | NOV 18 | 238                     | 219 | 200 | 15                                |  |
|                           | 32                            | FEB 22                  | MAR 11 | MAR 28 | OCT 29                  | NOV 12 | NOV 25 | 267                     | 245 | 223 | 9                                 |  |
|                           | 28                            | JAN 31                  | FEB 22 | MAR 15 | NOV 04                  | NOV 26 | DEC 17 | 303                     | 276 | 249 | 5                                 |  |
| TALLADEGA                 | 36                            | APR 05                  | APR 21 | MAY 06 | OCT 07                  | OCT 20 | NOV 02 | 202                     | 182 | 162 | 25                                |  |
|                           | 32                            | MAR 22                  | APR 07 | APR 23 | OCT 16                  | OCT 29 | NOV 11 | 222                     | 204 | 186 | 18                                |  |
|                           | 28                            | MAR 08                  | MAR 26 | APR 12 | OCT 23                  | NOV 06 | NOV 21 | 247                     | 225 | 203 | 12                                |  |
| THOMASVILLE               | 36                            | MAR 19                  | APR 03 | APR 19 | OCT 18                  | OCT 30 | NOV 10 | 229                     | 209 | 188 | 20                                |  |
|                           | 32                            | MAR 07                  | MAR 22 | APR 06 | OCT 26                  | NOV 08 | NOV 21 | 249                     | 230 | 211 | 14                                |  |
|                           | 28                            | FEB 06                  | MAR 01 | MAR 25 | NOV 03                  | NOV 22 | DEC 10 | 300                     | 265 | 229 | 8                                 |  |
| TROY                      | 36                            | MAR 13                  | MAR 28 | APR 11 | OCT 24                  | NOV 04 | NOV 15 | 240                     | 221 | 201 | 14                                |  |
|                           | 32                            | MAR 03                  | MAR 17 | MAR 31 | OCT 29                  | NOV 14 | NOV 30 | 265                     | 242 | 219 | 9                                 |  |
|                           | 28                            | FEB 02                  | FEB 27 | MAR 24 | NOV 09                  | NOV 26 | DEC 14 | 307                     | 272 | 237 | 5                                 |  |

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE / FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                     |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                     |  |
| ALABAMA                   |                               |                         |        |        |                         |        |        |                         |     |     |                                     |  |
| TUSCALOOSA FAA AP         | 36                            | MAR 25                  | APR 07 | APR 20 | OCT 15                  | OCT 30 | NOV 14 | 226                     | 205 | 183 | 22                                  |  |
|                           | 32                            | MAR 05                  | MAR 22 | APR 08 | OCT 20                  | NOV 04 | NOV 20 | 251                     | 226 | 202 | 16                                  |  |
|                           | 28                            | FEB 14                  | MAR 06 | MAR 26 | OCT 27                  | NOV 14 | DEC 01 | 278                     | 252 | 226 | 9                                   |  |
| UNION SPRINGS             | 36                            | MAR 20                  | APR 02 | APR 15 | OCT 20                  | OCT 31 | NOV 11 | 228                     | 211 | 195 | 19                                  |  |
|                           | 32                            | MAR 02                  | MAR 18 | APR 03 | OCT 27                  | NOV 09 | NOV 22 | 257                     | 235 | 213 | 13                                  |  |
|                           | 28                            | FEB 04                  | FEB 26 | MAR 20 | NOV 05                  | NOV 22 | DEC 09 | 297                     | 268 | 239 | 8                                   |  |
| VALLEY HEAD               | 36                            | APR 18                  | MAY 05 | MAY 23 | SEP 30                  | OCT 10 | OCT 20 | 179                     | 157 | 135 | 34                                  |  |
|                           | 32                            | APR 09                  | APR 23 | MAY 06 | OCT 05                  | OCT 18 | OCT 31 | 197                     | 177 | 158 | 28                                  |  |
|                           | 28                            | MAR 27                  | APR 08 | APR 20 | OCT 13                  | OCT 27 | NOV 10 | 218                     | 201 | 185 | 21                                  |  |
| ARIZONA                   |                               |                         |        |        |                         |        |        |                         |     |     |                                     |  |
| AJO                       | 36                            | JAN 06                  | FEB 13 | MAR 20 | NOV 13                  | DEC 12 | JAN 19 | >365                    | 299 | 257 | 4                                   |  |
|                           | 32                            | -                       | JAN 18 | MAR 05 | NOV 24                  | DEC 22 | -      | >365                    | 336 | 283 | 2                                   |  |
|                           | 28                            | -                       | DEC 12 | FEB 08 | DEC 15                  | JAN 23 | -      | >365                    | 365 | 329 | 1                                   |  |
| ANVIL RANCH               | 36                            | APR 02                  | APR 21 | MAY 10 | OCT 17                  | OCT 30 | NOV 13 | 219                     | 192 | 164 | 25                                  |  |
|                           | 32                            | MAR 11                  | APR 04 | APR 28 | OCT 27                  | NOV 10 | NOV 24 | 251                     | 219 | 187 | 16                                  |  |
|                           | 28                            | FEB 13                  | MAR 12 | APR 07 | NOV 07                  | NOV 24 | DEC 11 | 287                     | 257 | 227 | 8                                   |  |
| APACHE POWDER COMPANY     | 36                            | APR 15                  | MAY 05 | MAY 24 | OCT 09                  | OCT 22 | NOV 05 | 196                     | 170 | 145 | 35                                  |  |
|                           | 32                            | APR 01                  | APR 21 | MAY 11 | OCT 17                  | OCT 31 | NOV 13 | 218                     | 192 | 165 | 25                                  |  |
|                           | 28                            | MAR 07                  | MAR 29 | APR 19 | OCT 29                  | NOV 12 | NOV 25 | 255                     | 227 | 199 | 16                                  |  |
| BARTLETT DAM              | 36                            | FEB 04                  | MAR 12 | APR 18 | NOV 13                  | DEC 02 | DEC 24 | 312                     | 266 | 224 | 7                                   |  |
|                           | 32                            | DEC 24                  | FEB 09 | MAR 18 | NOV 18                  | DEC 24 | -      | >365                    | 322 | 277 | 3                                   |  |
|                           | 28                            | -                       | DEC 25 | FEB 17 | DEC 11                  | JAN 20 | -      | >365                    | 365 | 324 | 1                                   |  |
| BETATAKIN                 | 36                            | MAY 10                  | MAY 26 | JUN 11 | SEP 18                  | OCT 07 | OCT 25 | 159                     | 133 | 108 | 49                                  |  |
|                           | 32                            | MAY 04                  | MAY 16 | MAY 28 | SEP 29                  | OCT 17 | NOV 03 | 175                     | 153 | 131 | 41                                  |  |
|                           | 28                            | APR 20                  | MAY 05 | MAY 20 | OCT 12                  | OCT 26 | NOV 08 | 193                     | 172 | 152 | 31                                  |  |
| BLACK RIVER PUMPS         | 36                            | MAY 07                  | MAY 22 | JUN 06 | SEP 29                  | OCT 10 | OCT 21 | 160                     | 140 | 121 | 50                                  |  |
|                           | 32                            | APR 27                  | MAY 13 | MAY 28 | OCT 06                  | OCT 19 | NOV 02 | 181                     | 159 | 137 | 42                                  |  |
|                           | 28                            | APR 17                  | MAY 02 | MAY 18 | OCT 13                  | OCT 26 | NOV 08 | 195                     | 176 | 156 | 32                                  |  |
| BOUSE                     | 36                            | MAR 13                  | APR 04 | APR 26 | OCT 22                  | NOV 05 | NOV 20 | 240                     | 215 | 189 | 21                                  |  |
|                           | 32                            | FEB 18                  | MAR 17 | APR 13 | NOV 05                  | NOV 18 | NOV 30 | 279                     | 245 | 211 | 13                                  |  |
|                           | 28                            | JAN 19                  | FEB 21 | MAR 23 | NOV 11                  | NOV 27 | DEC 15 | 323                     | 279 | 245 | 7                                   |  |
| BUCKEYE                   | 36                            | FEB 23                  | MAR 22 | APR 18 | OCT 31                  | NOV 13 | NOV 27 | 271                     | 236 | 201 | 17                                  |  |
|                           | 32                            | FEB 05                  | FEB 27 | MAR 20 | NOV 06                  | NOV 26 | DEC 16 | 298                     | 272 | 246 | 9                                   |  |
|                           | 28                            | DEC 30                  | FEB 03 | MAR 08 | NOV 14                  | DEC 07 | JAN 06 | >365                    | 307 | 264 | 3                                   |  |
| CANELO 1 NW               | 36                            | MAY 05                  | MAY 19 | JUN 02 | OCT 03                  | OCT 15 | OCT 27 | 170                     | 148 | 127 | 42                                  |  |
|                           | 32                            | APR 21                  | MAY 08 | MAY 25 | OCT 08                  | OCT 22 | NOV 05 | 187                     | 166 | 145 | 32                                  |  |
|                           | 28                            | APR 03                  | APR 23 | MAY 14 | OCT 21                  | NOV 04 | NOV 17 | 220                     | 193 | 167 | 21                                  |  |
| CASA GRANDE               | 36                            | FEB 28                  | MAR 24 | APR 17 | OCT 29                  | NOV 13 | NOV 28 | 266                     | 234 | 202 | 16                                  |  |
|                           | 32                            | FEB 05                  | MAR 01 | MAR 25 | NOV 07                  | NOV 27 | DEC 17 | 303                     | 270 | 237 | 8                                   |  |
|                           | 28                            | JAN 02                  | FEB 07 | MAR 11 | NOV 19                  | DEC 16 | JAN 15 | >365                    | 311 | 280 | 3                                   |  |
| CASA GRANDE RUINS N M     | 36                            | MAR 21                  | APR 13 | MAY 05 | OCT 23                  | NOV 07 | NOV 21 | 235                     | 207 | 180 | 21                                  |  |
|                           | 32                            | FEB 27                  | MAR 26 | APR 22 | NOV 02                  | NOV 18 | DEC 03 | 271                     | 236 | 201 | 13                                  |  |
|                           | 28                            | JAN 28                  | FEB 25 | MAR 26 | NOV 08                  | DEC 01 | DEC 24 | 312                     | 278 | 243 | 6                                   |  |
| CHILDS                    | 36                            | MAR 21                  | APR 19 | MAY 18 | OCT 19                  | NOV 04 | NOV 19 | 232                     | 198 | 163 | 26                                  |  |
|                           | 32                            | FEB 22                  | MAR 28 | MAY 01 | OCT 30                  | NOV 17 | DEC 06 | 275                     | 234 | 192 | 15                                  |  |
|                           | 28                            | JAN 18                  | MAR 02 | APR 13 | NOV 10                  | DEC 02 | DEC 23 | 326                     | 274 | 223 | 6                                   |  |
| CHINO VALLEY              | 36                            | MAY 08                  | MAY 27 | JUN 15 | SEP 14                  | OCT 01 | OCT 19 | 153                     | 126 | 100 | 51                                  |  |
|                           | 32                            | APR 29                  | MAY 17 | JUN 04 | SEP 27                  | OCT 13 | OCT 29 | 171                     | 148 | 125 | 43                                  |  |
|                           | 28                            | APR 16                  | MAY 03 | MAY 21 | OCT 10                  | OCT 25 | NOV 10 | 196                     | 174 | 153 | 33                                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                   |  |
| ARIZONA                   |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                   |  |
| CHIRICAHUA NAT MON        | 36<br>32<br>28                | APR 22<br>APR 11<br>MAR 30 | MAY 09<br>APR 29<br>APR 17 | MAY 25<br>MAY 16<br>MAY 06 | OCT 08<br>OCT 19<br>OCT 31 | OCT 22<br>NOV 09<br>NOV 14 | NOV 04<br>NOV 28           | 186<br>206<br>230          | 165<br>183<br>210 | 145<br>160<br>190 | 34<br>23<br>13                    |  |
| CLIFTON                   | 36<br>32<br>28                | MAR 13<br>FEB 16<br>JAN 21 | MAR 30<br>MAR 12<br>FEB 15 | APR 16<br>APR 05<br>MAR 12 | OCT 31<br>NOV 06<br>NOV 13 | NOV 13<br>NOV 22<br>DEC 05 | NOV 27<br>DEC 07<br>DEC 36 | 252<br>284<br>322          | 228<br>254<br>292 | 203<br>224<br>262 | 25<br>15<br>6                     |  |
| CORDES                    | 36<br>32<br>28                | APR 11<br>MAR 25<br>FEB 25 | MAY 02<br>APR 14<br>MAR 25 | MAY 23<br>MAY 04<br>APR 21 | OCT 17<br>OCT 30<br>NOV 04 | OCT 31<br>NOV 13<br>NOV 27 | NOV 14<br>NOV 27<br>DEC 20 | 208<br>236<br>283          | 181<br>213<br>247 | 154<br>189<br>211 | 27<br>16<br>8                     |  |
| DEER VALLEY               | 36<br>32<br>28                | FEB 22<br>JAN 19<br>DEC 07 | MAR 19<br>FEB 19<br>JAN 24 | APR 13<br>MAR 21<br>MAR 02 | NOV 03<br>NOV 10<br>NOV 28 | NOV 20<br>DEC 04<br>DEC 25 | DEC 08<br>DEC 31<br>-      | 280<br>330<br>>365         | 245<br>287<br>334 | 210<br>248<br>288 | 13<br>6<br>2                      |  |
| DOUGLAS B D FAA AP        | 36<br>32<br>28                | APR 16<br>MAR 30<br>MAR 07 | APR 30<br>APR 15<br>MAR 28 | MAY 14<br>APR 30<br>APR 17 | OCT 14<br>OCT 21<br>NOV 02 | OCT 26<br>NOV 02<br>NOV 15 | NOV 06<br>NOV 14<br>NOV 28 | 198<br>222<br>259          | 178<br>201<br>232 | 158<br>180<br>205 | 32<br>23<br>15                    |  |
| DUNCAN                    | 36<br>32<br>28                | APR 25<br>APR 12<br>MAR 31 | MAY 16<br>APR 30<br>APR 18 | JUN 05<br>MAY 19<br>MAY 06 | OCT 05<br>OCT 10<br>OCT 17 | OCT 13<br>OCT 21<br>OCT 31 | OCT 22<br>NOV 02<br>NOV 15 | 170<br>196<br>223          | 150<br>173<br>196 | 129<br>150<br>169 | 43<br>35<br>27                    |  |
| FLAGSTAFF WSO             | 36<br>32<br>28                | JUN 09<br>MAY 30<br>MAY 11 | JUN 21<br>JUN 13<br>MAY 30 | JUL 03<br>JUN 26<br>JUN 17 | AUG 16<br>SEP 09<br>SEP 14 | SEP 05<br>SEP 21<br>OCT 03 | SEP 26<br>OCT 03<br>OCT 21 | 103<br>116<br>153          | 76<br>99<br>125   | 49<br>83<br>97    | 66<br>58<br>48                    |  |
| FLORENCE                  | 36<br>32<br>28                | MAR 12<br>FEB 08<br>DEC 28 | APR 04<br>MAR 10<br>FEB 09 | APR 26<br>APR 08<br>MAR 20 | OCT 26<br>NOV 06<br>NOV 16 | NOV 11<br>NOV 22<br>DEC 10 | NOV 28<br>DEC 08<br>JAN 10 | 252<br>291<br>>365         | 221<br>257<br>302 | 190<br>222<br>262 | 15<br>8<br>3                      |  |
| FORT VALLEY               | 36<br>32<br>28                | JUN 28<br>JUN 19<br>JUN 10 | JUL 08<br>JUL 01<br>JUN 23 | JUL 18<br>JUL 13<br>JUL 06 | AUG 04<br>AUG 07<br>AUG 24 | AUG 21<br>AUG 29<br>SEP 12 | SEP 07<br>SEP 20<br>SEP 30 | 63<br>87<br>104            | 44<br>59<br>80    | 24<br>31<br>55    | 79<br>71<br>62                    |  |
| GANADO                    | 36<br>32<br>28                | MAY 25<br>MAY 10<br>APR 24 | JUN 07<br>MAY 26<br>MAY 11 | JUN 20<br>JUN 10<br>MAY 27 | SEP 08<br>SEP 16<br>OCT 04 | SEP 22<br>OCT 04<br>OCT 17 | OCT 07<br>OCT 21<br>OCT 30 | 126<br>151<br>179          | 106<br>130<br>158 | 87<br>109<br>138  | 58<br>50<br>41                    |  |
| GILA BEND                 | 36<br>32<br>28                | FEB 14<br>JAN 13<br>DEC 13 | MAR 08<br>FEB 14<br>JAN 22 | MAR 31<br>MAR 17<br>FEB 28 | NOV 02<br>NOV 09<br>NOV 22 | NOV 25<br>DEC 07<br>DEC 28 | DEC 17<br>JAN 06<br>FEB 12 | 292<br>343<br>>365         | 260<br>294<br>333 | 229<br>250<br>295 | 10<br>4<br>1                      |  |
| HEBER RANGER STATION      | 36<br>32<br>28                | JUN 05<br>MAY 30<br>MAY 18 | JUN 23<br>JUN 14<br>MAY 31 | JUL 11<br>JUN 29<br>JUN 14 | AUG 28<br>SEP 11<br>SEP 19 | SEP 11<br>SEP 25<br>OCT 05 | SEP 26<br>OCT 10<br>OCT 20 | 104<br>124<br>147          | 79<br>103<br>126  | 55<br>83<br>104   | 63<br>54<br>45                    |  |
| HOLBROOK                  | 36<br>32<br>28                | MAY 10<br>APR 29<br>APR 15 | MAY 29<br>MAY 14<br>MAY 04 | JUN 16<br>MAY 29<br>MAY 23 | SEP 13<br>SEP 25<br>OCT 08 | SEP 30<br>OCT 11<br>OCT 23 | OCT 18<br>OCT 27<br>NOV 06 | 151<br>173<br>195          | 124<br>149<br>171 | 98<br>125<br>147  | 50<br>43<br>35                    |  |
| JEROME                    | 36<br>32<br>28                | APR 14<br>MAR 25<br>FEB 17 | APR 30<br>APR 15<br>MAR 19 | MAY 17<br>MAY 05<br>APR 18 | OCT 23<br>OCT 29<br>NOV 06 | NOV 07<br>NOV 14<br>NOV 28 | NOV 22<br>NOV 30<br>DEC 20 | 213<br>240<br>292          | 190<br>212<br>254 | 167<br>185<br>215 | 24<br>15<br>7                     |  |
| JUNIPINE                  | 36<br>32<br>28                | APR 23<br>APR 11<br>MAR 20 | MAY 12<br>APR 29<br>APR 08 | MAY 31<br>MAY 16<br>APR 27 | SEP 29<br>OCT 11<br>OCT 19 | OCT 18<br>OCT 28<br>NOV 10 | NOV 05<br>NOV 14<br>DEC 03 | 188<br>207<br>250          | 157<br>182<br>215 | 127<br>156<br>181 | 40<br>29<br>16                    |  |
| KINGMAN NO 2              | 36<br>32<br>28                | APR 09<br>MAR 16<br>FEB 11 | APR 26<br>APR 08<br>MAR 12 | MAY 14<br>MAY 02<br>APR 11 | OCT 17<br>OCT 30<br>NOV 08 | NOV 01<br>NOV 14<br>NOV 25 | NOV 16<br>NOV 29<br>DEC 12 | 208<br>249<br>291          | 188<br>219<br>257 | 167<br>190<br>224 | 27<br>17<br>9                     |  |
| LAVEEN 3 SSE              | 36<br>32<br>28                | FEB 16<br>JAN 08<br>DEC 08 | MAR 10<br>FEB 15<br>JAN 23 | APR 01<br>MAR 25<br>FEB 27 | NOV 04<br>NOV 09<br>NOV 19 | NOV 21<br>DEC 03<br>DEC 27 | DEC 08<br>DEC 28<br>-      | 285<br>332<br>>365         | 255<br>285<br>333 | 226<br>249<br>287 | 12<br>5<br>2                      |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                    |                    | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|--------------------|--------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                    |                    |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                 | 90                 |                                   |  |
| <b>ARIZONA</b>            |                               |                            |                            |                            |                            |                            |                            |                         |                    |                    |                                   |  |
| LEES FERRY                | 36<br>32<br>28                | MAR 21<br>MAR 01<br>FEB 04 | APR 05<br>MAR 19<br>MAR 02 | APR 21<br>APR 06<br>MAR 29 | OCT 23<br>OCT 30<br>NOV 13 | NOV 04<br>NOV 12<br>NOV 26 | NOV 16<br>NOV 26<br>DEC 08 | 231<br>266<br>298       | 212<br>238<br>268  | 192<br>210<br>238  | 29<br>21<br>13                    |  |
| LEUPP                     | 36<br>32<br>28                | MAY 19<br>MAY 07<br>APR 20 | JUN 03<br>MAY 23<br>MAY 09 | JUN 18<br>JUN 07<br>MAY 28 | SEP 11<br>SEP 17<br>SEP 28 | SEP 26<br>OCT 04<br>OCT 15 | OCT 12<br>OCT 22<br>NOV 01 | 138<br>160<br>183       | 115<br>134<br>158  | 92<br>107<br>133   | 52<br>44<br>36                    |  |
| LITCHFIELD PARK           | 36<br>32<br>28                | FEB 24<br>JAN 27<br>-      | MAR 23<br>FEB 24<br>FEB 04 | APR 19<br>MAR 23<br>MAR 10 | OCT 29<br>NOV 12<br>NOV 22 | NOV 15<br>NOV 29<br>DEC 01 | DEC 01<br>DEC 16<br>-      | 272<br>308<br>>365      | 236<br>278<br>317  | 199<br>247<br>274  | 15<br>7<br>2                      |  |
| MC NARY                   | 36<br>32<br>28                | JUN 06<br>MAY 24<br>MAY 07 | JUN 18<br>JUN 05<br>MAY 26 | JUN 29<br>JUN 18<br>JUN 14 | AUG 27<br>SEP 11<br>SEP 26 | SEP 13<br>SEP 26<br>OCT 11 | SEP 30<br>OCT 11<br>OCT 28 | 107<br>130<br>164       | 86<br>94<br>138    | 66<br>54<br>113    | 63<br>54<br>43                    |  |
| MESA EXPERIMENT FARM      | 36<br>32<br>28                | FEB 24<br>JAN 10<br>DEC 17 | MAR 14<br>FEB 14<br>JAN 28 | APR 02<br>MAR 21<br>MAR 07 | OCT 30<br>NOV 10<br>NOV 22 | NOV 22<br>DEC 04<br>DEC 23 | DEC 14<br>DEC 28<br>FEB 01 | 281<br>333<br>>365      | 252<br>291<br>324  | 222<br>253<br>283  | 12<br>5<br>2                      |  |
| MIAMI                     | 36<br>32<br>28                | MAR 21<br>FEB 17<br>JAN 24 | APR 10<br>MAR 18<br>FEB 20 | MAY 01<br>APR 16<br>MAR 20 | OCT 26<br>NOV 08<br>NOV 12 | NOV 11<br>NOV 21<br>DEC 08 | NOV 26<br>DEC 05<br>JAN 04 | 242<br>279<br>324       | 213<br>247<br>291  | 185<br>215<br>257  | 24<br>13<br>5                     |  |
| MONTEZUMA CASTLE N M      | 36<br>32<br>28                | APR 26<br>APR 14<br>MAR 21 | MAY 12<br>MAY 02<br>APR 09 | MAY 27<br>MAY 20<br>APR 28 | SEP 30<br>OCT 08<br>OCT 20 | OCT 15<br>OCT 24<br>NOV 04 | OCT 31<br>NOV 08<br>NOV 19 | 178<br>199<br>233       | 156<br>174<br>208  | 133<br>149<br>184  | 40<br>31<br>22                    |  |
| MORMON FLAT               | 36<br>32<br>28                | JAN 30<br>DEC 06<br>-      | MAR 09<br>FEB 03<br>-      | APR 17<br>MAR 22<br>FEB 01 | NOV 13<br>NOV 28<br>DEC 18 | DEC 02<br>DEC 23<br>-      | DEC 23<br>-<br>-           | 322<br>>365<br>>365     | 269<br>321<br>>365 | 220<br>265<br>>365 | 5<br>2<br>0                       |  |
| NOGALES                   | 36<br>32<br>28                | MAY 02<br>APR 17<br>MAR 24 | MAY 16<br>MAY 05<br>APR 12 | MAY 29<br>MAY 23<br>MAY 02 | OCT 06<br>OCT 11<br>OCT 24 | OCT 18<br>OCT 25<br>NOV 06 | OCT 30<br>NOV 08<br>NOV 19 | 175<br>197<br>233       | 155<br>172<br>207  | 134<br>148<br>182  | 41<br>31<br>21                    |  |
| ORACLE 2 SE               | 36<br>32<br>28                | APR 03<br>MAR 10<br>JAN 27 | APR 28<br>MAY 07<br>MAR 11 | MAY 23<br>MAY 07<br>APR 23 | OCT 20<br>OCT 26<br>NOV 02 | NOV 05<br>NOV 14<br>NOV 30 | NOV 20<br>DEC 02<br>DEC 29 | 223<br>255<br>316       | 191<br>219<br>262  | 158<br>183<br>212  | 22<br>13<br>6                     |  |
| ORGAN PIPE CACTUS N M     | 36<br>32<br>28                | MAR 02<br>FEB 05<br>DEC 23 | MAR 27<br>MAR 06<br>JAN 30 | APR 21<br>APR 04<br>MAR 05 | OCT 31<br>NOV 11<br>NOV 27 | NOV 18<br>DEC 02<br>DEC 24 | DEC 06<br>DEC 23<br>JAN 27 | 268<br>306<br>>365      | 235<br>271<br>324  | 203<br>235<br>288  | 12<br>5<br>1                      |  |
| PARKER                    | 36<br>32<br>28                | FEB 07<br>DEC 31<br>-      | MAR 02<br>FEB 07<br>JAN 18 | MAR 25<br>MAR 14<br>FEB 22 | NOV 12<br>NOV 18<br>DEC 02 | NOV 25<br>DEC 09<br>DEC 26 | DEC 08<br>JAN 04<br>-      | 296<br>>365<br>>365     | 267<br>304<br>344  | 238<br>263<br>296  | 9<br>4<br>1                       |  |
| PAYSON                    | 36<br>32<br>28                | MAY 10<br>APR 29<br>APR 13 | MAY 26<br>MAY 14<br>MAY 01 | JUN 12<br>MAY 29<br>MAY 20 | SEP 19<br>OCT 09<br>OCT 16 | OCT 06<br>OCT 21<br>OCT 30 | OCT 24<br>NOV 01<br>NOV 13 | 161<br>177<br>207       | 132<br>159<br>181  | 104<br>141<br>155  | 49<br>40<br>29                    |  |
| PEARCE                    | 36<br>32<br>28                | APR 07<br>MAR 24<br>MAR 02 | APR 27<br>APR 14<br>MAR 25 | MAY 16<br>MAY 04<br>APR 16 | OCT 13<br>OCT 21<br>NOV 03 | OCT 25<br>NOV 05<br>NOV 19 | NOV 06<br>NOV 19<br>DEC 04 | 205<br>232<br>270       | 181<br>204<br>233  | 157<br>177<br>206  | 31<br>21<br>12                    |  |
| PETRIFIED FOREST NP       | 36<br>32<br>28                | MAY 06<br>APR 24<br>APR 10 | MAY 18<br>MAY 09<br>APR 26 | MAY 30<br>MAY 24<br>MAY 11 | SEP 27<br>OCT 11<br>OCT 14 | OCT 10<br>OCT 21<br>OCT 29 | OCT 23<br>NOV 01<br>NOV 13 | 163<br>183<br>206       | 144<br>164<br>185  | 125<br>146<br>164  | 47<br>39<br>29                    |  |
| PHOENIX WSO               | 36<br>32<br>28                | FEB 07<br>DEC 25<br>-      | MAR 01<br>FEB 05<br>JAN 05 | MAR 23<br>MAR 16<br>FEB 15 | NOV 09<br>NOV 18<br>DEC 12 | NOV 30<br>DEC 15<br>JAN 17 | DEC 23<br>JAN 18<br>-      | 310<br>>365<br>>365     | 273<br>308<br>>365 | 239<br>265<br>324  | 8<br>3<br>1                       |  |
| PREScott                  | 36<br>32<br>28                | MAY 15<br>MAY 02<br>APR 20 | MAY 31<br>MAY 17<br>MAY 06 | JUN 16<br>JUN 02<br>MAY 22 | SEP 13<br>SEP 19<br>OCT 05 | OCT 01<br>OCT 09<br>OCT 23 | OCT 18<br>OCT 29<br>NOV 09 | 144<br>170<br>190       | 122<br>144<br>169  | 100<br>119<br>148  | 50<br>41<br>31                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP. THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|--------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                                | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                                | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| <b>ARIZONA</b>            |                                |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ROOSEVELT 1 WNW           | 36<br>32<br>28                 | FEB 01<br>DEC 19<br>-      | MAR 08<br>FEB 06<br>DEC 29 | APR 11<br>MAR 16<br>FEB 13 | NOV 07<br>NOV 14<br>DEC 03 | NOV 30<br>DEC 16<br>JAN 19 | DEC 25<br>-                | 315<br>>365<br>>365     | 266<br>313<br>319 | 222<br>266<br>319 | 12<br>4<br>1                      |  |
| SABINO CANYON             | 36<br>32<br>28                 | MAR 14<br>FEB 10<br>DEC 30 | MAR 31<br>MAR 09<br>FEB 10 | APR 18<br>APR 04<br>MAR 23 | NOV 01<br>NOV 04<br>NOV 12 | NOV 16<br>NOV 26<br>DEC 11 | NOV 30<br>DEC 18<br>JAN 09 | 254<br>297<br>>365      | 229<br>261<br>300 | 204<br>225<br>253 | 14<br>7<br>3                      |  |
| SACATON                   | 36<br>32<br>28                 | MAR 19<br>FEB 27<br>JAN 20 | APR 11<br>MAR 23<br>FEB 22 | MAY 05<br>APR 15<br>MAR 24 | OCT 23<br>OCT 31<br>NOV 11 | NOV 07<br>NOV 15<br>NOV 29 | NOV 21<br>NOV 30<br>DEC 21 | 236<br>269<br>>365      | 209<br>237<br>279 | 181<br>204<br>246 | 21<br>13<br>6                     |  |
| SAFFORD EXPERIMENT FRM    | 36<br>32<br>28                 | APR 10<br>MAR 27<br>MAR 02 | APR 26<br>APR 13<br>MAR 24 | MAY 13<br>MAY 01<br>APR 15 | OCT 12<br>OCT 18<br>NOV 02 | OCT 24<br>OCT 31<br>NOV 16 | NOV 06<br>NOV 13<br>NOV 29 | 204<br>221<br>266       | 180<br>200<br>236 | 156<br>178<br>206 | 33<br>24<br>15                    |  |
| SAIN T JOHNS              | 36<br>32<br>28                 | MAY 06<br>APR 26<br>APR 14 | MAY 21<br>MAY 10<br>APR 29 | JUN 05<br>MAY 24<br>MAY 14 | SEP 18<br>SEP 26<br>OCT 06 | OCT 03<br>OCT 12<br>OCT 22 | OCT 18<br>OCT 29<br>NOV 07 | 157<br>178<br>199       | 135<br>154<br>175 | 112<br>130<br>151 | 52<br>43<br>34                    |  |
| SAN CARLOS RESERVOIR      | 36<br>32<br>28                 | MAR 05<br>FEB 10<br>JAN 16 | MAR 30<br>MAR 06<br>FEB 12 | APR 23<br>MAR 31<br>MAR 12 | OCT 31<br>NOV 07<br>NOV 16 | NOV 13<br>NOV 25<br>DEC 17 | NOV 26<br>DEC 13<br>JAN 19 | 259<br>295<br>356       | 228<br>263<br>305 | 196<br>231<br>266 | 22<br>12<br>5                     |  |
| SANTA RITA EXP RANGE      | 36<br>32<br>28                 | MAR 23<br>FEB 28<br>JAN 07 | APR 14<br>MAR 28<br>FEB 23 | MAY 06<br>APR 24<br>APR 11 | OCT 22<br>OCT 30<br>NOV 06 | NOV 10<br>NOV 20<br>DEC 06 | NOV 28<br>DEC 11<br>JAN 05 | 242<br>270<br>338       | 209<br>237<br>284 | 175<br>203<br>236 | 16<br>9<br>4                      |  |
| SEDONA RANGER STATION     | 36<br>32<br>28                 | APR 22<br>APR 05<br>MAR 12 | MAY 12<br>MAY 17<br>APR 08 | MAY 31<br>MAY 17<br>MAY 05 | OCT 04<br>OCT 08<br>OCT 25 | OCT 22<br>OCT 28<br>NOV 14 | NOV 09<br>NOV 17<br>DEC 04 | 192<br>217<br>256       | 162<br>184<br>220 | 133<br>151<br>183 | 35<br>25<br>14                    |  |
| SNOWFLAKE                 | 36<br>32<br>28                 | MAY 27<br>MAY 04<br>APR 24 | JUN 08<br>MAY 20<br>MAY 10 | JUN 20<br>JUN 05<br>MAY 26 | SEP 13<br>SEP 16<br>OCT 01 | SEP 25<br>OCT 03<br>OCT 16 | OCT 06<br>OCT 19<br>OCT 31 | 124<br>160<br>180       | 108<br>135<br>158 | 91<br>110<br>135  | 57<br>48<br>39                    |  |
| SOUTH PHOENIX             | 36<br>32<br>28                 | FEB 21<br>JAN 28<br>DEC 11 | MAR 24<br>FEB 27<br>FEB 01 | APR 24<br>MAR 30<br>MAR 14 | NOV 03<br>NOV 09<br>NOV 19 | NOV 18<br>NOV 30<br>DEC 19 | DEC 03<br>DEC 21<br>-      | 272<br>314<br>>365      | 238<br>275<br>314 | 205<br>237<br>271 | 14<br>7<br>2                      |  |
| SPRINGERVILLE             | 36<br>32<br>28                 | JUN 03<br>MAY 23<br>MAY 05 | JUN 16<br>JUN 07<br>MAY 21 | JUN 30<br>JUN 23<br>JUN 07 | AUG 30<br>SEP 15<br>SEP 19 | SEP 13<br>SEP 27<br>OCT 05 | SEP 28<br>OCT 09<br>OCT 20 | 109<br>131<br>160       | 88<br>110<br>135  | 68<br>90<br>111   | 61<br>53<br>44                    |  |
| TEMPE                     | 36<br>32<br>28                 | MAR 01<br>FEB 02<br>DEC 20 | MAR 25<br>FEB 25<br>FEB 02 | APR 17<br>MAR 21<br>MAR 15 | OCT 30<br>NOV 11<br>NOV 25 | NOV 15<br>NOV 27<br>DEC 20 | NOV 30<br>DEC 14<br>JAN 20 | 262<br>304<br>>365      | 234<br>274<br>316 | 206<br>244<br>277 | 15<br>7<br>2                      |  |
| TEMPE CITRUS EXP STA      | 36<br>32<br>28                 | MAR 14<br>FEB 13<br>JAN 13 | APR 07<br>MAR 09<br>FEB 13 | APR 30<br>APR 02<br>MAR 16 | OCT 28<br>NOV 08<br>NOV 13 | NOV 11<br>NOV 24<br>DEC 12 | NOV 25<br>DEC 10<br>JAN 14 | 247<br>287<br>354       | 218<br>260<br>301 | 189<br>233<br>260 | 18<br>9<br>3                      |  |
| TOMBSTONE                 | 36<br>32<br>28                 | MAR 31<br>MAR 03<br>FEB 06 | APR 18<br>MAR 29<br>MAR 10 | MAY 06<br>APR 23<br>APR 10 | OCT 26<br>OCT 30<br>NOV 11 | NOV 09<br>NOV 19<br>DEC 06 | NOV 22<br>DEC 09<br>DEC 31 | 226<br>268<br>308       | 204<br>234<br>270 | 183<br>201<br>233 | 19<br>11<br>4                     |  |
| TRUXTON CANYON            | 36<br>32<br>28                 | APR 22<br>MAR 30<br>MAR 11 | MAY 09<br>APR 22<br>APR 06 | MAY 26<br>MAY 15<br>MAY 02 | OCT 03<br>OCT 19<br>NOV 01 | OCT 21<br>NOV 03<br>NOV 15 | NOV 09<br>NOV 18<br>NOV 29 | 188<br>225<br>255       | 164<br>194<br>222 | 141<br>164<br>190 | 37<br>26<br>15                    |  |
| TUCSON UNIV OF ARIZONA    | 36<br>32<br>28                 | FEB 18<br>JAN 12<br>-      | MAR 19<br>FEB 20<br>JAN 28 | APR 16<br>APR 01<br>MAR 15 | OCT 31<br>NOV 08<br>NOV 21 | NOV 22<br>DEC 02<br>DEC 23 | DEC 16<br>DEC 28<br>-      | 286<br>329<br>>365      | 247<br>281<br>324 | 211<br>238<br>270 | 12<br>6<br>2                      |  |
| TUCSON WSO                | 36<br>32<br>28                 | FEB 26<br>JAN 31<br>DEC 20 | MAR 23<br>FEB 28<br>FEB 04 | APR 17<br>MAR 27<br>MAR 18 | NOV 05<br>NOV 07<br>NOV 18 | NOV 21<br>NOV 29<br>DEC 20 | DEC 07<br>DEC 20<br>JAN 31 | 275<br>307<br>>365      | 242<br>273<br>316 | 208<br>240<br>270 | 11<br>5<br>2                      |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                     |                    | FREEZE / FROST<br>PROBABILITY (%)<br>*<br>PROBABILITY (4) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|---------------------|--------------------|---|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                     |                    |   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                  | 90                 |   |  |
| <b>ARIZONA</b>            |                               |                            |                            |                            |                            |                            |                            |                         |                     |                    |   |  |
| TUMACACORI NAT MON        | 36<br>32<br>28                | APR 16<br>MAR 31<br>FEB 25 | MAY 03<br>APR 18<br>MAR 19 | MAY 20<br>MAY 06<br>APR 10 | OCT 08<br>OCT 27<br>NOV 05 | OCT 24<br>NOV 10<br>NOV 21 | NOV 09<br>NOV 25<br>DEC 08 | 197<br>229<br>279       | 173<br>206<br>247   | 149<br>182<br>215  | 30<br>19<br>9   |  |
| WALNUT CREEK              | 36<br>32<br>28                | JUN 04<br>MAY 16<br>APR 30 | JUN 18<br>JUN 04<br>MAY 16 | JUL 02<br>JUN 24<br>JUN 01 | AUG 30<br>SEP 12<br>SEP 21 | SEP 17<br>OCT 02<br>OCT 12 | OCT 06<br>OCT 22<br>NOV 01 | 113<br>151<br>178       | 91<br>119<br>148    | 68<br>87<br>117    | 61<br>50<br>40  |  |
| HELLTON                   | 36<br>32<br>28                | FEB 24<br>FEB 01<br>JAN 09 | MAR 17<br>FEB 24<br>FEB 08 | APR 08<br>MAR 20<br>MAR 07 | NOV 02<br>NOV 07<br>NOV 14 | NOV 15<br>NOV 27<br>DEC 09 | NOV 27<br>DEC 17<br>JAN 09 | 265<br>306<br>348       | 241<br>275<br>302   | 218<br>244<br>267  | 16<br>9<br>3  |  |
| WHITERIVER                | 36<br>32<br>28                | MAY 01<br>APR 22<br>MAR 29 | MAY 15<br>MAY 08<br>APR 16 | MAY 30<br>MAY 24<br>MAY 04 | SEP 24<br>OCT 03<br>OCT 19 | OCT 10<br>OCT 19<br>NOV 01 | OCT 27<br>NOV 05<br>NOV 14 | 169<br>186<br>221       | 147<br>164<br>198   | 126<br>142<br>175  | 46<br>37<br>26  |  |
| WICKENBURG                | 36<br>32<br>28                | MAR 25<br>MAR 04<br>FEB 04 | APR 18<br>MAR 26<br>MAR 01 | MAY 12<br>APR 17<br>MAR 25 | OCT 17<br>OCT 29<br>NOV 11 | NOV 01<br>NOV 15<br>NOV 30 | NOV 16<br>DEC 02<br>DEC 18 | 229<br>263<br>301       | 196<br>233<br>273   | 164<br>203<br>246  | 27<br>17<br>9   |  |
| WUPATKI NAT MON           | 36<br>32<br>28                | APR 17<br>APR 07<br>MAR 09 | MAY 11<br>APR 29<br>APR 04 | JUN 05<br>MAY 21<br>APR 30 | SEP 19<br>OCT 05<br>OCT 27 | OCT 15<br>OCT 28<br>NOV 09 | NOV 10<br>NOV 21<br>NOV 23 | 199<br>213<br>244       | 156<br>182<br>219   | 114<br>151<br>194  | 38<br>29<br>20  |  |
| YUMA CITRUS STATION       | 36<br>32<br>28                | FEB 10<br>JAN 09<br>-      | MAR 10<br>FEB 14<br>JAN 12 | APR 07<br>MAR 21<br>FEB 28 | NOV 07<br>NOV 16<br>DEC 04 | NOV 22<br>DEC 13<br>JAN 06 | DEC 07<br>JAN 12<br>-      | 288<br>335<br>>365      | 256<br>299<br>>365  | 225<br>266<br>302  | 10<br>4<br>1  |  |
| YUMA WSO                  | 36<br>32<br>28                | DEC 17<br>-<br>-           | FEB 02<br>JAN 10<br>-      | MAR 11<br>FEB 19<br>JAN 14 | NOV 21<br>DEC 14<br>JAN 06 | DEC 18<br>JAN 13<br>-      | -<br>-                     | >365<br>>365<br>>365    | 312<br>>365<br>>365 | 271<br>320<br>>365 | 3<br>1<br>0   |  |
| <b>ARKANSAS</b>           |                               |                            |                            |                            |                            |                            |                            |                         |                     |                    |   |  |
| ALUM FORK                 | 36<br>32<br>28                | MAR 30<br>MAR 23<br>FEB 27 | APR 10<br>APR 04<br>MAR 16 | APR 21<br>APR 16<br>APR 01 | OCT 14<br>OCT 26<br>NOV 02 | OCT 26<br>NOV 06<br>NOV 17 | NOV 08<br>NOV 17<br>DEC 01 | 213<br>233<br>267       | 199<br>216<br>245   | 184<br>199<br>223  | 25<br>18<br>11  |  |
| ARKADELPHIA 2 N           | 36<br>32<br>28                | MAR 28<br>MAR 18<br>FEB 24 | APR 08<br>MAR 31<br>MAR 14 | APR 18<br>APR 14<br>MAR 31 | OCT 12<br>OCT 16<br>OCT 30 | OCT 25<br>OCT 31<br>NOV 14 | NOV 07<br>NOV 14<br>NOV 29 | 216<br>232<br>269       | 199<br>213<br>245   | 183<br>194<br>221  | 24<br>18<br>11  |  |
| BATESVILLE LIVESTOCK      | 36<br>32<br>28                | APR 07<br>MAR 27<br>MAR 12 | APR 23<br>APR 12<br>MAR 30 | MAY 09<br>APR 29<br>APR 17 | SEP 29<br>OCT 10<br>OCT 22 | OCT 12<br>OCT 21<br>NOV 06 | OCT 24<br>OCT 31<br>NOV 21 | 193<br>208<br>246       | 171<br>191<br>220   | 149<br>174<br>195  | 31<br>24<br>17  |  |
| BATESVILLE L AND D 1      | 36<br>32<br>28                | APR 12<br>MAR 29<br>MAR 20 | APR 28<br>APR 13<br>APR 03 | MAY 15<br>APR 28<br>APR 17 | SEP 29<br>OCT 10<br>OCT 21 | OCT 10<br>OCT 21<br>NOV 01 | OCT 21<br>NOV 01<br>NOV 12 | 185<br>206<br>230       | 164<br>191<br>211   | 144<br>175<br>193  | 31<br>24<br>18  |  |
| BENTON                    | 36<br>32<br>28                | APR 05<br>MAR 28<br>MAR 07 | APR 19<br>APR 07<br>MAR 25 | MAY 02<br>APR 17<br>APR 11 | OCT 04<br>OCT 12<br>OCT 24 | OCT 16<br>OCT 25<br>NOV 06 | OCT 28<br>NOV 07<br>NOV 19 | 198<br>213<br>247       | 179<br>201<br>226   | 160<br>188<br>204  | 28<br>21<br>15  |  |
| BENTONVILLE 5 WSW         | 36<br>32<br>28                | APR 13<br>APR 01<br>MAR 22 | APR 30<br>APR 16<br>APR 05 | MAY 16<br>MAY 02<br>APR 20 | SEP 30<br>OCT 06<br>OCT 16 | OCT 12<br>OCT 19<br>OCT 31 | OCT 23<br>OCT 31<br>NOV 15 | 183<br>204<br>231       | 164<br>185<br>208   | 146<br>165<br>185  | 34<br>28<br>20  |  |
| BLYTHEVILLE               | 36<br>32<br>28                | MAR 28<br>MAR 15<br>FEB 24 | APR 08<br>MAR 30<br>MAR 14 | APR 20<br>APR 14<br>MAR 31 | OCT 14<br>OCT 24<br>OCT 30 | OCT 27<br>NOV 06<br>NOV 13 | NOV 08<br>NOV 19<br>NOV 27 | 218<br>243<br>268       | 200<br>221<br>244   | 183<br>198<br>220  | 25<br>18<br>11  |  |
| BRINKLEY                  | 36<br>32<br>28                | MAR 26<br>MAR 16<br>FEB 24 | APR 08<br>MAR 30<br>MAR 15 | APR 20<br>APR 13<br>APR 02 | OCT 06<br>OCT 19<br>OCT 25 | OCT 19<br>OCT 31<br>NOV 08 | OCT 31<br>NOV 12<br>NOV 23 | 210<br>233<br>264       | 193<br>214<br>237   | 176<br>194<br>211  | 27<br>20<br>13  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION     | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|-----------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                       |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                       |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| ARKANSAS              |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| CAMDEN 1              | 36<br>32<br>28                | MAR 25<br>MAR 12<br>FEB 18 | APR 06<br>MAR 26<br>MAR 08 | APR 19<br>APR 09<br>MAR 25 | OCT 11<br>OCT 23<br>OCT 28 | OCT 24<br>NOV 04<br>NOV 14 | NOV 06<br>NOV 16<br>DEC 01 | 215<br>240<br>279       | 200<br>223<br>251 | 184<br>205<br>223 | 25<br>18<br>11                    |  |
| CONWAY                | 36<br>32<br>28                | MAR 30<br>MAR 21<br>MAR 05 | APR 13<br>APR 03<br>MAR 19 | APR 26<br>APR 16<br>APR 02 | OCT 08<br>OCT 18<br>OCT 27 | OCT 20<br>OCT 31<br>NOV 08 | NOV 01<br>NOV 12<br>NOV 19 | 204<br>227<br>250       | 189<br>210<br>233 | 175<br>193<br>216 | 26<br>20<br>13                    |  |
| CORNING               | 36<br>32<br>28                | APR 02<br>MAR 18<br>MAR 07 | APR 18<br>APR 01<br>MAR 23 | MAY 05<br>APR 15<br>APR 08 | OCT 01<br>OCT 11<br>OCT 25 | OCT 13<br>OCT 25<br>NOV 07 | OCT 25<br>NOV 08<br>NOV 19 | 195<br>226<br>248       | 177<br>206<br>228 | 159<br>186<br>207 | 29<br>22<br>15                    |  |
| CROSSETT 7 S          | 36<br>32<br>28                | MAR 29<br>MAR 22<br>FEB 26 | APR 09<br>APR 03<br>MAR 14 | APR 19<br>APR 16<br>MAR 30 | OCT 03<br>OCT 16<br>OCT 27 | OCT 19<br>OCT 30<br>NOV 11 | NOV 03<br>NOV 13<br>NOV 27 | 209<br>227<br>266       | 192<br>209<br>241 | 176<br>191<br>217 | 23<br>17<br>10                    |  |
| DARDANELLE            | 36<br>32<br>28                | MAR 29<br>MAR 21<br>MAR 04 | APR 12<br>APR 03<br>MAR 18 | APR 25<br>APR 16<br>APR 01 | OCT 07<br>OCT 21<br>OCT 29 | OCT 21<br>NOV 01<br>NOV 08 | NOV 03<br>NOV 13<br>NOV 18 | 210<br>227<br>252       | 191<br>212<br>234 | 173<br>196<br>216 | 27<br>20<br>13                    |  |
| DE QUEEN              | 36<br>32<br>28                | MAR 29<br>MAR 21<br>MAR 02 | APR 14<br>APR 03<br>MAR 19 | APR 30<br>APR 16<br>APR 06 | OCT 06<br>OCT 17<br>OCT 25 | OCT 19<br>OCT 30<br>NOV 09 | OCT 31<br>NOV 12<br>NOV 24 | 205<br>224<br>260       | 187<br>209<br>234 | 169<br>195<br>209 | 26<br>19<br>13                    |  |
| DES ARC               | 36<br>32<br>28                | MAR 23<br>MAR 11<br>FEB 20 | APR 04<br>APR 28<br>MAR 08 | APR 17<br>APR 13<br>MAR 23 | OCT 08<br>OCT 19<br>OCT 28 | OCT 24<br>NOV 04<br>NOV 13 | NOV 09<br>NOV 21<br>NOV 30 | 220<br>243<br>272       | 202<br>221<br>250 | 184<br>198<br>228 | 24<br>18<br>11                    |  |
| DUMAS                 | 36<br>32<br>28                | MAR 24<br>MAR 05<br>FEB 15 | APR 05<br>APR 22<br>MAR 06 | APR 17<br>APR 08<br>MAR 24 | OCT 12<br>OCT 24<br>OCT 30 | OCT 28<br>NOV 08<br>NOV 15 | NOV 12<br>NOV 23<br>DEC 01 | 224<br>259<br>280       | 205<br>231<br>254 | 186<br>203<br>228 | 21<br>14<br>8                     |  |
| EL DORADO FAA AIRPORT | 36<br>32<br>28                | MAR 25<br>MAR 14<br>FEB 19 | APR 07<br>MAR 28<br>MAR 09 | APR 20<br>APR 11<br>MAR 27 | OCT 12<br>OCT 24<br>OCT 30 | OCT 25<br>NOV 05<br>NOV 14 | NOV 08<br>NOV 18<br>NOV 29 | 217<br>241<br>271       | 200<br>222<br>249 | 184<br>202<br>227 | 23<br>17<br>10                    |  |
| EUREKA SPRINGS        | 36<br>32<br>28                | APR 12<br>MAR 28<br>MAR 17 | APR 26<br>APR 12<br>MAR 30 | MAY 10<br>APR 27<br>APR 12 | OCT 02<br>OCT 11<br>OCT 20 | OCT 16<br>OCT 25<br>NOV 05 | OCT 29<br>NOV 08<br>NOV 21 | 192<br>217<br>242       | 172<br>196<br>219 | 152<br>174<br>197 | 30<br>23<br>16                    |  |
| FAYETTEVILLE FAA AP   | 36<br>32<br>28                | APR 14<br>APR 08<br>MAR 24 | APR 29<br>APR 21<br>APR 05 | MAY 15<br>MAY 03<br>APR 17 | SEP 24<br>OCT 04<br>OCT 16 | OCT 07<br>OCT 17<br>NOV 01 | OCT 20<br>OCT 30<br>NOV 16 | 180<br>198<br>229       | 161<br>179<br>209 | 141<br>159<br>189 | 35<br>28<br>21                    |  |
| FAYETTEVILLE EXP STA  | 36<br>32<br>28                | APR 12<br>APR 01<br>MAR 17 | APR 25<br>APR 15<br>APR 02 | MAY 09<br>APR 29<br>APR 19 | SEP 29<br>OCT 09<br>OCT 16 | OCT 11<br>OCT 21<br>NOV 02 | OCT 23<br>NOV 03<br>NOV 20 | 185<br>207<br>238       | 168<br>189<br>213 | 151<br>171<br>189 | 31<br>25<br>18                    |  |
| FORT SMITH WSO        | 36<br>32<br>28                | MAR 30<br>MAR 22<br>MAR 08 | APR 13<br>APR 03<br>MAR 21 | APR 28<br>APR 14<br>APR 04 | OCT 06<br>OCT 18<br>OCT 28 | OCT 21<br>OCT 30<br>NOV 10 | NOV 04<br>NOV 12<br>NOV 24 | 210<br>226<br>249       | 190<br>210<br>233 | 169<br>194<br>218 | 29<br>22<br>15                    |  |
| GILBERT               | 36<br>32<br>28                | APR 19<br>APR 10<br>MAR 29 | MAY 01<br>APR 21<br>APR 09 | MAY 14<br>MAY 01<br>APR 19 | SEP 23<br>OCT 01<br>OCT 13 | OCT 06<br>OCT 15<br>OCT 26 | OCT 18<br>OCT 29<br>NOV 08 | 175<br>194<br>216       | 157<br>176<br>200 | 139<br>158<br>184 | 36<br>30<br>23                    |  |
| GRAVETTE              | 36<br>32<br>28                | APR 16<br>APR 02<br>MAR 25 | MAY 02<br>APR 20<br>APR 10 | MAY 18<br>MAY 07<br>APR 26 | SEP 29<br>OCT 03<br>OCT 12 | OCT 09<br>OCT 17<br>OCT 29 | OCT 19<br>OCT 31<br>NOV 16 | 178<br>199<br>226       | 160<br>179<br>201 | 141<br>160<br>177 | 33<br>27<br>20                    |  |
| HELENA 5 NW           | 36<br>32<br>28                | MAR 21<br>MAR 09<br>FEB 14 | APR 03<br>MAR 25<br>MAR 07 | APR 16<br>APR 10<br>MAR 28 | OCT 14<br>OCT 20<br>OCT 30 | OCT 28<br>NOV 06<br>NOV 14 | NOV 11<br>NOV 23<br>NOV 29 | 224<br>250<br>278       | 207<br>226<br>251 | 190<br>201<br>224 | 24<br>17<br>11                    |  |
| HOPE 3 NE             | 36<br>32<br>28                | MAR 26<br>MAR 16<br>FEB 18 | APR 06<br>MAR 30<br>MAR 10 | APR 17<br>APR 14<br>MAR 30 | OCT 09<br>OCT 24<br>OCT 28 | OCT 24<br>NOV 03<br>NOV 13 | NOV 08<br>NOV 14<br>NOV 29 | 214<br>236<br>275       | 200<br>217<br>247 | 186<br>199<br>219 | 26<br>19<br>12                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                   |  |
| ARKANSAS                  |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                   |  |
| HOT SPRINGS 1 NNE         | 36<br>32<br>28                | MAR 23<br>MAR 07<br>FEB 14 | APR 07<br>MAR 23<br>MAR 08 | APR 21<br>APR 08<br>MAR 31 | OCT 18<br>OCT 27<br>NOV 05 | OCT 31<br>NOV 09<br>NOV 25 | NOV 14<br>NOV 21<br>DEC 15 | 226<br>252<br>291          | 207<br>230<br>261 | 188<br>209<br>231 | 22<br>15<br>9                     |  |
| JONESBORO                 | 36<br>32<br>28                | MAR 26<br>MAR 15<br>FEB 24 | APR 10<br>MAR 29<br>MAR 12 | APR 24<br>APR 11<br>MAR 28 | OCT 10<br>OCT 23<br>OCT 30 | OCT 23<br>NOV 05<br>NOV 13 | NOV 05<br>NOV 19<br>NOV 27 | 217<br>239<br>267          | 196<br>221<br>245 | 174<br>203<br>223 | 25<br>18<br>12                    |  |
| KEO                       | 36<br>32<br>28                | MAR 26<br>MAR 10<br>FEB 19 | APR 07<br>MAR 27<br>MAR 09 | APR 18<br>APR 14<br>MAR 27 | OCT 08<br>OCT 24<br>OCT 28 | OCT 23<br>NOV 04<br>NOV 13 | NOV 06<br>NOV 16<br>NOV 29 | 214<br>242<br>274          | 198<br>221<br>248 | 182<br>201<br>223 | 24<br>17<br>11                    |  |
| LEAD HILL                 | 36<br>32<br>28                | APR 13<br>MAR 30<br>MAR 22 | APR 29<br>APR 18<br>APR 06 | MAY 15<br>MAY 06<br>APR 20 | SEP 25<br>OCT 04<br>OCT 17 | OCT 10<br>OCT 19<br>NOV 01 | OCT 25<br>NOV 03<br>NOV 15 | 185<br>209<br>230          | 163<br>184<br>208 | 141<br>158<br>187 | 33<br>27<br>19                    |  |
| MAGNOLIA 3 N              | 36<br>32<br>28                | MAR 25<br>MAR 18<br>FEB 26 | APR 09<br>MAR 31<br>MAR 16 | APR 24<br>APR 12<br>APR 03 | OCT 06<br>OCT 16<br>OCT 28 | OCT 18<br>OCT 30<br>NOV 09 | OCT 30<br>NOV 13<br>NOV 22 | 207<br>227<br>256          | 191<br>212<br>237 | 176<br>198<br>219 | 23<br>16<br>10                    |  |
| MALVERN                   | 36<br>32<br>28                | APR 01<br>MAR 26<br>MAR 07 | APR 15<br>APR 07<br>MAR 23 | APR 29<br>APR 18<br>APR 08 | OCT 05<br>OCT 13<br>OCT 29 | OCT 18<br>OCT 27<br>NOV 10 | OCT 31<br>NOV 10<br>NOV 22 | 202<br>216<br>254          | 185<br>203<br>231 | 167<br>189<br>209 | 27<br>21<br>14                    |  |
| MAMMOTH SPRING            | 36<br>32<br>28                | APR 16<br>APR 08<br>MAR 23 | MAY 02<br>APR 22<br>APR 05 | MAY 19<br>MAY 06<br>APR 18 | SEP 23<br>OCT 03<br>OCT 13 | OCT 05<br>OCT 16<br>OCT 24 | OCT 18<br>OCT 28<br>NOV 04 | 176<br>194<br>217          | 155<br>176<br>201 | 134<br>157<br>185 | 35<br>28<br>21                    |  |
| MARIANNA 2 S              | 36<br>32<br>28                | MAR 24<br>MAR 13<br>FEB 22 | APR 06<br>MAR 28<br>MAR 13 | APR 18<br>APR 13<br>APR 01 | OCT 07<br>OCT 15<br>OCT 26 | OCT 18<br>OCT 31<br>NOV 11 | OCT 30<br>NOV 15<br>NOV 26 | 211<br>236<br>270          | 195<br>216<br>242 | 179<br>196<br>215 | 24<br>18<br>11                    |  |
| MENA                      | 36<br>32<br>28                | MAR 29<br>MAR 20<br>MAR 01 | APR 12<br>APR 02<br>MAR 18 | APR 26<br>APR 16<br>APR 03 | OCT 07<br>OCT 20<br>OCT 30 | OCT 21<br>NOV 02<br>NOV 13 | NOV 04<br>NOV 14<br>NOV 26 | 210<br>232<br>264          | 191<br>213<br>239 | 173<br>193<br>215 | 25<br>18<br>12                    |  |
| MONTICELLO 3 SW           | 36<br>32<br>28                | MAR 27<br>MAR 18<br>FEB 25 | APR 12<br>APR 01<br>MAR 14 | APR 28<br>APR 16<br>MAR 30 | OCT 07<br>OCT 15<br>OCT 23 | OCT 21<br>OCT 30<br>NOV 13 | NOV 04<br>NOV 13<br>DEC 04 | 212<br>228<br>268          | 191<br>211<br>244 | 171<br>193<br>219 | 23<br>17<br>10                    |  |
| MORRILTON                 | 36<br>32<br>28                | MAR 26<br>MAR 15<br>FEB 24 | APR 07<br>MAR 28<br>MAR 12 | APR 20<br>APR 11<br>MAR 28 | OCT 11<br>OCT 20<br>OCT 29 | OCT 23<br>NOV 02<br>NOV 12 | NOV 04<br>NOV 15<br>NOV 26 | 216<br>236<br>266          | 198<br>218<br>244 | 179<br>200<br>222 | 25<br>18<br>11                    |  |
| MOUNT IDA 3 SE            | 36<br>32<br>28                | APR 13<br>APR 02<br>MAR 19 | APR 27<br>APR 15<br>APR 01 | MAY 10<br>APR 28<br>APR 14 | OCT 01<br>OCT 06<br>OCT 20 | OCT 13<br>OCT 19<br>NOV 01 | OCT 25<br>NOV 02<br>NOV 14 | 186<br>202<br>227          | 169<br>187<br>214 | 151<br>172<br>200 | 32<br>26<br>18                    |  |
| MOUNTAIN HOME 1 NNW       | 36<br>32<br>28                | APR 02<br>MAR 23<br>MAR 13 | APR 19<br>APR 06<br>MAR 27 | MAY 06<br>APR 20<br>APR 10 | OCT 05<br>OCT 13<br>OCT 25 | OCT 18<br>OCT 26<br>NOV 08 | OCT 30<br>NOV 09<br>NOV 21 | 200<br>220<br>246          | 181<br>202<br>225 | 162<br>184<br>204 | 32<br>25<br>18                    |  |
| NASHVILLE EXP STATION     | 36<br>32<br>28                | MAR 31<br>MAR 22<br>MAR 02 | APR 11<br>APR 03<br>MAR 19 | APR 21<br>APR 16<br>APR 04 | OCT 11<br>OCT 21<br>OCT 28 | OCT 23<br>NOV 04<br>NOV 16 | NOV 05<br>NOV 18<br>DEC 04 | 210<br>233<br>265          | 195<br>214<br>241 | 180<br>195<br>218 | 26<br>19<br>12                    |  |
| NEWPORT                   | 36<br>32<br>28                | MAR 23<br>MAR 09<br>FEB 24 | APR 07<br>MAR 27<br>MAR 12 | APR 23<br>APR 14<br>MAR 29 | OCT 08<br>OCT 18<br>OCT 30 | OCT 21<br>NOV 02<br>NOV 16 | NOV 03<br>NOV 17<br>DEC 03 | 214<br>245<br>274          | 196<br>219<br>248 | 178<br>194<br>221 | 26<br>19<br>12                    |  |
| NIMROD DAM                | 36<br>32<br>28                | APR 03<br>MAR 27<br>MAR 10 | APR 17<br>APR 08<br>APR 13 | MAY 01<br>APR 20<br>APR 13 | OCT 07<br>OCT 13<br>OCT 25 | OCT 19<br>OCT 29<br>NOV 08 | OCT 31<br>NOV 13<br>NOV 22 | 202<br>224<br>245          | 184<br>203<br>224 | 165<br>183<br>204 | 32<br>25<br>18                    |  |
| OKAY                      | 36<br>32<br>28                | MAR 23<br>MAR 09<br>FEB 13 | APR 06<br>MAR 25<br>MAR 05 | APR 20<br>APR 09<br>MAR 25 | OCT 13<br>OCT 20<br>OCT 26 | OCT 27<br>NOV 04<br>NOV 14 | NOV 10<br>NOV 20<br>DEC 03 | 220<br>249<br>281          | 203<br>224<br>253 | 186<br>199<br>226 | 21<br>15<br>9                     |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                 |  |
| ARKANSAS                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| OZARK                     | 36<br>32<br>28                | MAR 30<br>MAR 21<br>FEB 23 | APR 13<br>APR 02<br>MAR 16 | APR 26<br>APR 14<br>APR 05 | OCT 12<br>OCT 21<br>OCT 30 | OCT 24<br>NOV 04<br>NOV 13 | NOV 05<br>NOV 18<br>NOV 27 | 212<br>235<br>269       | 194<br>215<br>242 | 176<br>196<br>214 | 26<br>19<br>12                  |  |
| PARAGOULD 1 S             | 36<br>32<br>28                | MAR 29<br>MAR 20<br>MAR 01 | APR 13<br>APR 03<br>MAR 19 | APR 28<br>APR 18<br>APR 07 | OCT 03<br>OCT 19<br>OCT 26 | OCT 18<br>OCT 31<br>NOV 10 | NOV 03<br>NOV 13<br>NOV 25 | 213<br>229<br>259       | 188<br>210<br>235 | 163<br>191<br>210 | 28<br>21<br>14                  |  |
| PINE BLUFF                | 36<br>32<br>28                | MAR 20<br>MAR 02<br>FEB 12 | APR 02<br>MAR 19<br>MAR 03 | APR 16<br>APR 04<br>MAR 22 | OCT 14<br>OCT 26<br>NOV 03 | OCT 28<br>NOV 08<br>NOV 22 | NOV 12<br>NOV 22<br>DEC 12 | 228<br>256<br>290       | 208<br>234<br>263 | 189<br>212<br>237 | 20<br>14<br>8                   |  |
| POCAHONTAS 1              | 36<br>32<br>28                | APR 05<br>MAR 21<br>MAR 13 | APR 18<br>APR 03<br>MAR 28 | MAY 02<br>APR 16<br>APR 11 | OCT 05<br>OCT 15<br>OCT 24 | OCT 17<br>OCT 27<br>NOV 06 | OCT 29<br>NOV 08<br>NOV 19 | 198<br>225<br>243       | 181<br>206<br>223 | 164<br>188<br>202 | 30<br>23<br>16                  |  |
| PREScott                  | 36<br>32<br>28                | MAR 22<br>MAR 15<br>FEB 15 | APR 05<br>MAR 27<br>MAR 07 | APR 19<br>APR 09<br>MAR 27 | OCT 15<br>OCT 28<br>OCT 31 | OCT 29<br>NOV 08<br>NOV 18 | NOV 13<br>NOV 19<br>DEC 07 | 222<br>243<br>285       | 206<br>225<br>256 | 190<br>206<br>227 | 23<br>16<br>10                  |  |
| SAINT CHARLES             | 36<br>32<br>28                | MAR 22<br>MAR 02<br>FEB 13 | APR 04<br>MAR 21<br>MAR 06 | APR 18<br>APR 08<br>MAR 26 | OCT 14<br>OCT 25<br>OCT 31 | OCT 28<br>NOV 06<br>NOV 17 | NOV 10<br>NOV 17<br>DEC 04 | 222<br>249<br>280       | 206<br>229<br>255 | 189<br>210<br>231 | 25<br>18<br>11                  |  |
| SEARCY                    | 36<br>32<br>28                | MAR 28<br>MAR 18<br>FEB 28 | APR 12<br>APR 01<br>MAR 17 | APR 26<br>APR 15<br>APR 02 | OCT 09<br>OCT 18<br>OCT 28 | OCT 23<br>OCT 30<br>NOV 09 | NOV 05<br>NOV 11<br>NOV 21 | 212<br>230<br>256       | 194<br>212<br>237 | 175<br>193<br>217 | 27<br>20<br>13                  |  |
| SILoam SPRINGS            | 36<br>32<br>28                | APR 10<br>MAR 31<br>MAR 19 | APR 25<br>APR 14<br>APR 01 | MAY 11<br>APR 29<br>APR 14 | OCT 01<br>OCT 12<br>OCT 19 | OCT 12<br>OCT 23<br>NOV 04 | OCT 22<br>NOV 04<br>NOV 19 | 184<br>210<br>235       | 169<br>191<br>216 | 153<br>173<br>197 | 32<br>25<br>18                  |  |
| STUTTGART 9 ESE           | 36<br>32<br>28                | MAR 24<br>MAR 06<br>FEB 13 | APR 05<br>MAR 23<br>MAR 06 | APR 18<br>APR 09<br>MAR 27 | OCT 09<br>OCT 23<br>OCT 31 | OCT 21<br>NOV 05<br>NOV 16 | NOV 03<br>NOV 18<br>DEC 03 | 211<br>248<br>279       | 198<br>227<br>255 | 185<br>206<br>231 | 25<br>18<br>11                  |  |
| SUBIACO                   | 36<br>32<br>28                | MAR 27<br>MAR 16<br>FEB 28 | APR 11<br>MAR 30<br>MAR 17 | APR 25<br>APR 12<br>APR 02 | OCT 09<br>OCT 24<br>OCT 30 | OCT 23<br>NOV 04<br>NOV 12 | NOV 06<br>NOV 15<br>NOV 25 | 213<br>236<br>264       | 195<br>219<br>240 | 177<br>202<br>215 | 26<br>18<br>12                  |  |
| TEXARKANA FAA AIRPORT     | 36<br>32<br>28                | MAR 11<br>FEB 23<br>FEB 04 | MAR 27<br>MAR 12<br>MAR 17 | APR 12<br>MAR 29<br>MAR 17 | OCT 22<br>OCT 29<br>NOV 09 | NOV 03<br>NOV 14<br>NOV 28 | NOV 16<br>NOV 30<br>DEC 16 | 243<br>273<br>302       | 221<br>247<br>275 | 198<br>221<br>249 | 17<br>11<br>6                   |  |
| WALDRON                   | 36<br>32<br>28                | APR 05<br>MAR 27<br>MAR 16 | APR 21<br>APR 09<br>MAR 30 | MAY 07<br>APR 22<br>APR 13 | SEP 30<br>OCT 07<br>OCT 17 | OCT 13<br>OCT 22<br>NOV 01 | OCT 25<br>NOV 05<br>NOV 15 | 193<br>212<br>236       | 174<br>195<br>215 | 155<br>178<br>194 | 30<br>23<br>17                  |  |
| WARREN                    | 36<br>32<br>28                | MAR 24<br>MAR 12<br>FEB 21 | APR 05<br>MAR 26<br>MAR 11 | APR 17<br>APR 08<br>MAR 28 | OCT 09<br>OCT 24<br>OCT 28 | OCT 23<br>NOV 05<br>NOV 12 | NOV 07<br>NOV 16<br>NOV 28 | 218<br>240<br>269       | 201<br>223<br>246 | 184<br>206<br>223 | 23<br>16<br>10                  |  |
| WYNNE                     | 36<br>32<br>28                | MAR 28<br>MAR 16<br>FEB 27 | APR 11<br>MAR 31<br>MAR 17 | APR 25<br>APR 16<br>APR 04 | OCT 04<br>OCT 10<br>OCT 26 | OCT 17<br>OCT 28<br>NOV 09 | OCT 29<br>NOV 14<br>NOV 23 | 205<br>228<br>263       | 188<br>210<br>237 | 171<br>191<br>210 | 26<br>19<br>12                  |  |
| CALIFORNIA                |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| ALDERPOINT                | 36<br>32<br>28                | APR 18<br>MAR 02<br>DEC 24 | MAY 09<br>APR 06<br>FEB 11 | MAY 31<br>MAY 12<br>MAR 27 | SEP 22<br>OCT 15<br>NOV 06 | OCT 19<br>NOV 09<br>DEC 01 | NOV 15<br>DEC 05<br>DEC 29 | 201<br>264<br>>365      | 162<br>216<br>294 | 123<br>169<br>237 | 21<br>10<br>3                   |  |
| ALTURAS RANGER STATION    | 36<br>32<br>28                | JUN 29<br>MAY 27<br>MAY 07 | JUL 14<br>JUN 21<br>MAY 29 | JUL 29<br>JUL 16<br>JUN 20 | JUL 31<br>AUG 09<br>AUG 28 | AUG 14<br>AUG 26<br>SEP 15 | AUG 27<br>SEP 11<br>OCT 02 | 52<br>98<br>140         | 30<br>65<br>108   | 8<br>32<br>76     | 70<br>57<br>43                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                      |                      | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|----------------------|----------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                      |                      |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                   | 90                   |                                   |  |
| CALIFORNIA                |                               |                            |                            |                            |                            |                            |                            |                         |                      |                      |                                   |  |
| ASH MOUNTAIN              | 36<br>32<br>28                | MAR 24<br>FEB 08<br>-      | APR 16<br>MAR 17<br>JAN 19 | MAY 09<br>APR 23<br>FEB 24 | NOV 01<br>NOV 12<br>NOV 26 | NOV 17<br>NOV 30<br>DEC 02 | DEC 02<br>DEC 18<br>-      | 240<br>300<br>>365      | 214<br>257<br>>365   | 188<br>215<br>298    | 16<br>7<br>2                      |  |
| AUBERRY 1 NW              | 36<br>32<br>28                | APR 17<br>MAR 17<br>JAN 21 | MAY 10<br>APR 18<br>MAR 06 | JUN 02<br>MAY 20<br>APR 15 | OCT 08<br>OCT 28<br>NOV 10 | OCT 30<br>NOV 16<br>DEC 03 | NOV 21<br>DEC 06<br>JAN 03 | 203<br>248<br>>365      | 172<br>212<br>273    | 141<br>175<br>215    | 25<br>14<br>5                     |  |
| AUBURN                    | 36<br>32<br>28                | MAR 20<br>JAN 21<br>-      | APR 16<br>MAR 03<br>JAN 24 | MAY 13<br>APR 13<br>MAR 06 | OCT 30<br>NOV 14<br>NOV 29 | NOV 14<br>DEC 01<br>DEC 31 | NOV 30<br>DEC 19<br>-      | 247<br>322<br>>365      | 211<br>273<br>341    | 176<br>224<br>295    | 17<br>7<br>2                      |  |
| AVALON PLEASURE PIER      | 36<br>32<br>28                | -<br>-<br>-                | -<br>-<br>-                | MAR 07<br>DEC 14<br>-      | DEC 20<br>MAR 17<br>-      | -<br>-<br>-                | -<br>-<br>-                | >365<br>>365<br>>365    | >365<br>>365<br>>365 | >365<br>>365<br>>365 | 0<br>0<br>0                       |  |
| BAKERSFIELD WSO           | 36<br>32<br>28                | JAN 31<br>DEC 31<br>-      | MAR 02<br>JAN 31<br>JAN 10 | APR 02<br>MAR 03<br>FEB 09 | NOV 09<br>NOV 20<br>DEC 04 | NOV 23<br>DEC 11<br>JAN 02 | DEC 07<br>JAN 02<br>-      | 299<br>357<br>>365      | 265<br>311<br>>365   | 230<br>276<br>310    | 9<br>3<br>1                       |  |
| BARRETT DAM               | 36<br>32<br>28                | MAR 18<br>FEB 17<br>JAN 13 | APR 18<br>MAR 25<br>FEB 17 | MAY 20<br>MAY 01<br>MAR 17 | OCT 15<br>NOV 04<br>NOV 14 | NOV 02<br>NOV 18<br>DEC 08 | NOV 20<br>DEC 03<br>-      | 236<br>267<br>>365      | 197<br>234<br>295    | 157<br>205<br>252    | 26<br>15<br>5                     |  |
| BARSTOW                   | 36<br>32<br>28                | MAR 24<br>MAR 01<br>JAN 30 | APR 11<br>APR 15<br>FEB 28 | APR 29<br>APR 15<br>MAR 30 | OCT 18<br>OCT 29<br>NOV 06 | NOV 02<br>NOV 13<br>NOV 19 | NOV 17<br>NOV 28<br>DEC 03 | 230<br>265<br>297       | 205<br>234<br>263    | 179<br>203<br>229    | 25<br>16<br>9                     |  |
| BEAUMONT 1 E              | 36<br>32<br>28                | APR 08<br>MAR 04<br>JAN 09 | MAY 01<br>APR 03<br>FEB 22 | MAY 24<br>MAY 04<br>APR 07 | OCT 20<br>OCT 28<br>NOV 17 | NOV 07<br>NOV 22<br>DEC 16 | NOV 25<br>DEC 16<br>JAN 16 | 219<br>268<br>351       | 190<br>232<br>294    | 160<br>195<br>242    | 16<br>7<br>2                      |  |
| BERKELEY                  | 36<br>32<br>28                | DEC 12<br>-<br>-           | JAN 28<br>-<br>-           | MAR 05<br>JAN 19<br>-      | DEC 01<br>DEC 26<br>-      | JAN 01<br>-<br>-           | -<br>-                     | >365<br>>365<br>>365    | 333<br>>365<br>>365  | 296<br>>365<br>>365  | 2<br>0<br>0                       |  |
| BISHOP WSO                | 36<br>32<br>28                | MAY 04<br>APR 19<br>MAR 31 | MAY 22<br>MAY 07<br>APR 22 | JUN 08<br>MAY 25<br>MAY 14 | SEP 15<br>SEP 26<br>OCT 11 | OCT 01<br>OCT 13<br>OCT 27 | OCT 16<br>OCT 30<br>NOV 11 | 153<br>184<br>213       | 131<br>158<br>187    | 109<br>132<br>161    | 48<br>39<br>30                    |  |
| BLUE CANYON WSO           | 36<br>32<br>28                | MAY 12<br>MAY 01<br>APR 18 | MAY 29<br>MAY 21<br>MAY 06 | JUN 15<br>JUN 10<br>MAY 25 | SEP 11<br>OCT 02<br>OCT 25 | OCT 05<br>OCT 23<br>NOV 13 | OCT 29<br>NOV 13<br>DEC 02 | 158<br>185<br>213       | 128<br>154<br>189    | 97<br>123<br>166     | 37<br>27<br>16                    |  |
| BLYTHE                    | 36<br>32<br>28                | FEB 10<br>JAN 06<br>-      | MAR 02<br>FEB 08<br>JAN 19 | MAR 22<br>MAR 12<br>FEB 22 | NOV 08<br>NOV 14<br>DEC 05 | NOV 22<br>DEC 05<br>DEC 29 | DEC 06<br>DEC 26<br>-      | 288<br>340<br>>365      | 265<br>299<br>348    | 241<br>259<br>301    | 10<br>4<br>1                      |  |
| BLYTHE FAA AIRPORT        | 36<br>32<br>28                | JAN 21<br>-<br>-           | FEB 17<br>JAN 28<br>JAN 19 | MAR 17<br>MAR 01<br>-      | NOV 13<br>NOV 28<br>DEC 11 | DEC 07<br>DEC 25<br>-      | DEC 31<br>-                | 328<br>>365<br>>365     | 292<br>333<br>>365   | 256<br>287<br>346    | 5<br>2<br>0                       |  |
| BOCA                      | 36<br>32<br>28                | JUL 21<br>JUL 08<br>JUN 12 | JUL 28<br>JUL 22<br>JUL 04 | AUG 03<br>AUG 05<br>AUG 27 | JUL 31<br>JUL 29<br>AUG 03 | AUG 04<br>AUG 09<br>AUG 20 | AUG 09<br>AUG 20<br>SEP 06 | 17<br>38<br>78          | 6<br>17<br>46        | 0<br>0<br>14         | 86<br>75<br>60                    |  |
| BOWMAN DAM                | 36<br>32<br>28                | MAY 22<br>MAY 10<br>APR 22 | JUN 08<br>MAY 27<br>MAY 09 | JUN 24<br>JUN 13<br>MAY 26 | SEP 09<br>SEP 28<br>OCT 16 | SEP 30<br>OCT 18<br>NOV 04 | OCT 21<br>NOV 08<br>NOV 23 | 141<br>173<br>207       | 113<br>144<br>179    | 86<br>115<br>150     | 48<br>36<br>22                    |  |
| BRAWLEY 2 SW              | 36<br>32<br>28                | FEB 07<br>JAN 03<br>-      | FEB 26<br>FEB 06<br>JAN 10 | MAR 17<br>MAR 09<br>FEB 12 | NOV 13<br>NOV 15<br>DEC 06 | NOV 28<br>DEC 12<br>JAN 01 | DEC 14<br>JAN 10<br>-      | 298<br>358<br>>365      | 275<br>308<br>>365   | 251<br>269<br>307    | 9<br>3<br>1                       |  |
| BROOKS FARNHAM RANCH      | 36<br>32<br>28                | APR 16<br>MAR 21<br>JAN 18 | MAY 02<br>APR 12<br>FEB 28 | MAY 19<br>MAY 04<br>APR 11 | OCT 14<br>OCT 25<br>NOV 08 | OCT 27<br>NOV 10<br>NOV 26 | NOV 10<br>NOV 25<br>DEC 14 | 194<br>239<br>310       | 177<br>211<br>270    | 160<br>183<br>229    | 24<br>14<br>6                     |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                      |                    | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|----------------------|--------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                      |                    |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                   | 90                 |                                   |  |
| CALIFORNIA                |                               |                            |                            |                            |                            |                            |                            |                         |                      |                    |                                   |  |
| BURBANK VALLEY PMP PLT    | 36<br>32<br>28                | JAN 18<br>-<br>-           | FEB 27<br>JAN 25<br>-      | APR 04<br>MAR 15<br>FEB 07 | NOV 07<br>NOV 20<br>DEC 20 | DEC 01<br>DEC 30<br>-      | DEC 27<br>-<br>-           | >365<br>>365<br>>365    | 275<br>352<br>365    | 227<br>262<br>338  | 6<br>1<br>0                       |  |
| BURNEY                    | 36<br>32<br>28                | JUN 25<br>MAY 31<br>MAY 09 | JUL 11<br>JUN 22<br>MAY 28 | JUL 28<br>JUL 15<br>JUN 16 | AUG 01<br>AUG 12<br>SEP 03 | AUG 15<br>AUG 26<br>SEP 21 | AUG 28<br>SEP 08<br>OCT 10 | 58<br>91<br>143         | 33<br>64<br>116      | 9<br>37<br>88      | 68<br>56<br>41                    |  |
| BUTTONWILLOW              | 36<br>32<br>28                | MAR 06<br>FEB 01<br>JAN 04 | MAR 30<br>MAR 02<br>FEB 03 | APR 23<br>APR 01<br>MAR 05 | OCT 19<br>NOV 01<br>NOV 10 | NOV 04<br>NOV 14<br>NOV 25 | NOV 20<br>NOV 28<br>DEC 09 | 248<br>290<br>326       | 218<br>256<br>292    | 188<br>223<br>261  | 21<br>12<br>5                     |  |
| CALAVERAS BIG TREES       | 36<br>32<br>28                | MAY 30<br>MAY 14<br>APR 20 | JUN 14<br>JUN 01<br>MAY 10 | JUN 30<br>JUN 19<br>MAY 29 | AUG 28<br>SEP 10<br>OCT 15 | SEP 22<br>OCT 05<br>NOV 02 | OCT 17<br>OCT 29<br>NOV 21 | 130<br>158<br>204       | 99<br>125<br>176     | 68<br>92<br>148    | 53<br>41<br>23                    |  |
| CANOGA PARK PIERCE COL    | 36<br>32<br>28                | MAR 17<br>FEB 02<br>-      | APR 10<br>MAR 06<br>JAN 25 | MAY 05<br>APR 06<br>MAR 06 | OCT 26<br>NOV 03<br>NOV 22 | NOV 12<br>NOV 30<br>DEC 22 | NOV 29<br>DEC 27<br>-      | 249<br>313<br>>365      | 215<br>269<br>338    | 181<br>224<br>282  | 13<br>5<br>1                      |  |
| CANYON DAM                | 36<br>32<br>28                | JUN 11<br>MAY 14<br>APR 24 | JUN 27<br>JUN 03<br>MAY 12 | JUL 14<br>JUN 24<br>MAY 30 | AUG 13<br>SEP 07<br>SEP 21 | SEP 01<br>SEP 26<br>OCT 12 | SEP 21<br>OCT 16<br>NOV 02 | 94<br>141<br>180        | 65<br>114<br>152     | 37<br>88<br>124    | 63<br>51<br>34                    |  |
| CEDARVILLE                | 36<br>32<br>28                | MAY 21<br>MAY 06<br>APR 25 | JUN 09<br>MAY 24<br>MAY 09 | JUN 27<br>JUN 11<br>MAY 23 | AUG 29<br>SEP 13<br>SEP 25 | SEP 19<br>SEP 30<br>OCT 13 | OCT 10<br>OCT 16<br>OCT 31 | 129<br>151<br>182       | 101<br>128<br>157    | 73<br>104<br>131   | 53<br>42<br>30                    |  |
| CHICO EXPERIMENT STA      | 36<br>32<br>28                | APR 10<br>MAR 02<br>JAN 10 | APR 23<br>MAR 28<br>FEB 17 | MAY 07<br>APR 23<br>MAR 28 | OCT 19<br>OCT 30<br>NOV 12 | NOV 03<br>NOV 15<br>DEC 04 | NOV 19<br>NOV 30<br>DEC 26 | 217<br>267<br>333       | 193<br>231<br>289    | 170<br>194<br>245  | 19<br>10<br>4                     |  |
| CHULA VISTA               | 36<br>32<br>28                | -<br>-<br>-                | JAN 27<br>JAN 24<br>-      | MAR 11<br>JAN 24<br>-      | NOV 26<br>DEC 13<br>-      | DEC 24<br>-                | -                          | >365<br>>365<br>>365    | 330<br>349<br>>365   | 272<br>349<br>>365 | 1<br>0<br>0                       |  |
| CLOVERDALE 3 SSE          | 36<br>32<br>28                | MAR 08<br>JAN 21<br>-      | APR 11<br>FEB 28<br>JAN 18 | MAY 15<br>APR 07<br>FEB 13 | OCT 30<br>NOV 11<br>NOV 30 | NOV 15<br>DEC 01<br>JAN 07 | DEC 02<br>DEC 21<br>-      | 255<br>316<br>>365      | 218<br>275<br>>365   | 180<br>233<br>310  | 14<br>5<br>1                      |  |
| COALINGA                  | 36<br>32<br>28                | MAR 19<br>FEB 22<br>JAN 06 | APR 09<br>MAR 18<br>FEB 07 | APR 29<br>APR 12<br>MAR 12 | OCT 26<br>NOV 07<br>NOV 19 | NOV 08<br>NOV 19<br>DEC 05 | NOV 21<br>DEC 01<br>DEC 22 | 239<br>272<br>338       | 212<br>245<br>300    | 186<br>217<br>262  | 19<br>10<br>4                     |  |
| COLFAX                    | 36<br>32<br>28                | APR 08<br>MAR 18<br>JAN 07 | MAY 02<br>APR 14<br>FEB 23 | MAY 25<br>MAY 12<br>APR 11 | OCT 16<br>OCT 30<br>NOV 09 | NOV 05<br>NOV 18<br>DEC 12 | NOV 25<br>DEC 07<br>JAN 13 | 218<br>252<br>345       | 186<br>217<br>291    | 155<br>183<br>237  | 22<br>11<br>3                     |  |
| COLUSA 1 SSW              | 36<br>32<br>28                | MAR 17<br>JAN 29<br>DEC 28 | APR 10<br>MAR 09<br>FEB 10 | MAY 04<br>APR 18<br>MAR 27 | OCT 19<br>NOV 02<br>NOV 09 | NOV 03<br>NOV 18<br>DEC 08 | NOV 18<br>DEC 04<br>JAN 05 | 236<br>298<br>344       | 206<br>253<br>300    | 176<br>207<br>255  | 17<br>9<br>3                      |  |
| CORCORAN IRRIG DIST       | 36<br>32<br>28                | MAR 07<br>FEB 05<br>DEC 24 | APR 02<br>MAR 09<br>JAN 28 | APR 28<br>APR 10<br>MAR 04 | OCT 22<br>OCT 31<br>NOV 10 | NOV 08<br>NOV 15<br>NOV 29 | NOV 24<br>DEC 03<br>DEC 19 | 253<br>289<br>346       | 218<br>251<br>304    | 183<br>213<br>265  | 19<br>10<br>4                     |  |
| CORONA                    | 36<br>32<br>28                | MAR 05<br>FEB 06<br>-      | MAR 30<br>MAR 02<br>JAN 07 | APR 25<br>MAR 26<br>FEB 12 | OCT 30<br>NOV 15<br>DEC 08 | NOV 14<br>DEC 10<br>JAN 01 | NOV 30<br>JAN 07<br>-      | 259<br>324<br>>365      | 228<br>282<br>>365   | 198<br>244<br>318  | 11<br>4<br>1                      |  |
| CULVER CITY               | 36<br>32<br>28                | -<br>-<br>-                | JAN 03<br>-<br>-           | FEB 24<br>-<br>-           | DEC 09<br>-<br>-           | JAN 18<br>-<br>-           | -                          | >365<br>>365<br>>365    | >365<br>>365<br>>365 | 305<br>345<br>>365 | 1<br>0<br>0                       |  |
| CUYAMACA                  | 36<br>32<br>28                | MAY 13<br>APR 21<br>MAR 18 | MAY 31<br>MAY 14<br>APR 18 | JUN 18<br>JUN 06<br>MAY 18 | AUG 26<br>SEP 26<br>OCT 10 | SEP 23<br>OCT 14<br>OCT 30 | OCT 21<br>NOV 01<br>NOV 20 | 152<br>185<br>232       | 114<br>152<br>195    | 76<br>120<br>158   | 44<br>30<br>16                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                     |                    | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------|--------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                     |                    |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                  | 90                 |                                   |  |
| CALIFORNIA                |                               |                            |                            |                            |                            |                            |                            |                            |                     |                    |                                   |  |
| DAGGETT FAA AP            | 36<br>32<br>28                | FEB 14<br>JAN 23<br>DEC 24 | MAR 15<br>FEB 21<br>FEB 02 | APR 13<br>MAR 22<br>MAR 10 | NOV 02<br>NOV 06<br>NOV 17 | NOV 15<br>NOV 25<br>DEC 09 | NOV 27<br>DEC 13<br>JAN 02 | 278<br>313<br>359          | 244<br>276<br>308   | 210<br>239<br>267  | 14<br>7<br>3                      |  |
| DAVIS 2 HSW EXP FARM      | 36<br>32<br>28                | MAR 24<br>JAN 19<br>DEC 03 | APR 13<br>MAR 04<br>JAN 15 | MAY 03<br>APR 18<br>FEB 24 | OCT 26<br>NOV 02<br>NOV 12 | NOV 10<br>NOV 24<br>DEC 12 | NOV 24<br>DEC 16<br>JAN 15 | 234<br>307<br>>365         | 210<br>264<br>326   | 185<br>221<br>285  | 15<br>6<br>2                      |  |
| DEATH VALLEY              | 36<br>32<br>28                | JAN 18<br>DEC 24<br>-      | FEB 07<br>JAN 21<br>DEC 27 | FEB 27<br>FEB 11<br>JAN 22 | NOV 15<br>NOV 30<br>DEC 14 | DEC 03<br>DEC 15<br>JAN 07 | DEC 22<br>JAN 04<br>-      | 323<br>>365<br>>365        | 298<br>329<br>303   | 273<br>303<br>333  | 7<br>3<br>1                       |  |
| DENAIR 3 NNE              | 36<br>32<br>28                | MAR 26<br>FEB 24<br>JAN 06 | APR 18<br>MAR 26<br>FEB 10 | MAY 10<br>APR 24<br>MAR 16 | OCT 09<br>OCT 23<br>NOV 06 | OCT 27<br>NOV 11<br>NOV 25 | NOV 14<br>NOV 29<br>DEC 15 | 224<br>268<br>326          | 191<br>229<br>288   | 159<br>191<br>250  | 21<br>12<br>5                     |  |
| DE SABLA                  | 36<br>32<br>28                | MAY 05<br>APR 15<br>MAR 06 | MAY 21<br>MAY 06<br>APR 03 | JUN 05<br>MAY 27<br>MAY 02 | SEP 21<br>OCT 17<br>OCT 31 | OCT 16<br>NOV 05<br>NOV 21 | NOV 10<br>NOV 23<br>DEC 11 | 181<br>209<br>270          | 148<br>182<br>231   | 114<br>155<br>192  | 33<br>21<br>8                     |  |
| EAGLE MOUNTAIN            | 36<br>32<br>28                | -<br>-<br>-                | JAN 27<br>-<br>-           | MAR 02<br>JAN 24<br>-      | DEC 03<br>DEC 15<br>-      | DEC 27<br>-                | -<br>-                     | >365<br>>365<br>>365       | 337<br>337<br>>365  | 294<br>0<br>>365   | 2<br>0<br>0                       |  |
| EAST PARK RESERVOIR       | 36<br>32<br>28                | APR 17<br>MAR 29<br>FEB 08 | MAY 06<br>APR 21<br>MAR 17 | MAY 25<br>MAY 15<br>APR 22 | OCT 08<br>OCT 21<br>NOV 03 | OCT 25<br>NOV 07<br>NOV 21 | NOV 11<br>NOV 23<br>DEC 08 | 201<br>230<br>289          | 172<br>199<br>248   | 143<br>168<br>207  | 29<br>18<br>9                     |  |
| EL CAPITAN DAM            | 36<br>32<br>28                | JAN 23<br>-<br>-           | FEB 23<br>JAN 12<br>-      | MAR 27<br>FEB 16<br>JAN 10 | NOV 09<br>DEC 02<br>DEC 14 | DEC 07<br>JAN 02<br>-      | JAN 04<br>-                | 332<br>>365<br>>365        | 286<br>>365<br>>365 | 239<br>314<br>>365 | 4<br>1<br>0                       |  |
| EL CENTRO 2 SSW           | 36<br>32<br>28                | FEB 10<br>JAN 02<br>-      | MAR 10<br>FEB 04<br>JAN 12 | APR 07<br>MAR 05<br>FEB 09 | NOV 09<br>NOV 15<br>DEC 02 | NOV 26<br>DEC 10<br>DEC 29 | DEC 14<br>JAN 06<br>-      | 290<br>351<br>>365         | 260<br>308<br>353   | 230<br>275<br>314  | 10<br>4<br>1                      |  |
| ELECTRA POWER HOUSE       | 36<br>32<br>28                | APR 01<br>MAR 02<br>JAN 05 | APR 22<br>MAR 29<br>FEB 14 | MAY 13<br>APR 26<br>MAR 25 | OCT 16<br>NOV 01<br>NOV 08 | NOV 03<br>NOV 18<br>DEC 13 | NOV 21<br>DEC 05<br>JAN 17 | 220<br>262<br>355          | 195<br>233<br>299   | 170<br>204<br>255  | 22<br>11<br>4                     |  |
| EL SINORE                 | 36<br>32<br>28                | MAR 30<br>FEB 24<br>DEC 29 | APR 22<br>MAR 30<br>FEB 13 | MAY 14<br>MAY 03<br>MAR 26 | OCT 15<br>OCT 28<br>NOV 13 | NOV 06<br>NOV 21<br>DEC 06 | NOV 28<br>DEC 15<br>JAN 05 | 233<br>280<br>>365         | 198<br>235<br>295   | 163<br>190<br>247  | 19<br>10<br>3                     |  |
| ESCONDIDO                 | 36<br>32<br>28                | FEB 23<br>JAN 07<br>-      | MAR 20<br>FEB 19<br>JAN 11 | APR 14<br>MAR 30<br>FEB 21 | NOV 01<br>NOV 12<br>NOV 30 | NOV 21<br>DEC 10<br>DEC 27 | DEC 10<br>JAN 16<br>-      | 278<br>>365<br>>365        | 245<br>292<br>355   | 212<br>240<br>296  | 12<br>4<br>1                      |  |
| EUREKA WSO                | 36<br>32<br>28                | MAR 01<br>-<br>-           | MAR 29<br>JAN 30<br>-      | APR 25<br>MAR 14<br>JAN 19 | NOV 05<br>NOV 15<br>JAN 19 | NOV 28<br>DEC 15<br>-      | DEC 22<br>-                | 284<br>>365<br>>365        | 244<br>324<br>>365  | 205<br>266<br>>365 | 6<br>1<br>0                       |  |
| FAIRFIELD FIRE STATION    | 36<br>32<br>28                | FEB 26<br>JAN 20<br>DEC 14 | APR 01<br>FEB 24<br>JAN 13 | MAY 05<br>MAR 27<br>FEB 06 | OCT 30<br>NOV 11<br>NOV 22 | NOV 12<br>NOV 28<br>DEC 16 | NOV 26<br>DEC 18<br>JAN 15 | 262<br>331<br>>365         | 225<br>279<br>335   | 187<br>238<br>307  | 14<br>6<br>2                      |  |
| FAIRMONT                  | 36<br>32<br>28                | MAR 27<br>FEB 17<br>DEC 24 | APR 21<br>MAR 22<br>FEB 10 | MAY 15<br>APR 24<br>MAR 25 | OCT 28<br>NOV 07<br>NOV 18 | NOV 13<br>NOV 26<br>DEC 16 | NOV 28<br>DEC 15<br>JAN 20 | 237<br>287<br>>365         | 205<br>248<br>307   | 173<br>209<br>259  | 17<br>8<br>3                      |  |
| FONTANA KAISER            | 36<br>32<br>28                | DEC 27<br>-<br>-           | MAR 01<br>JAN 08<br>-      | APR 20<br>MAR 07<br>JAN 19 | NOV 09<br>DEC 04<br>JAN 03 | DEC 17<br>-<br>-           | FEB 03<br>-                | >365<br>>365<br>>365       | 293<br>295<br>>365  | 214<br>295<br>>365 | 3<br>1<br>0                       |  |
| FORT BIDWELL              | 36<br>32<br>28                | JUN 06<br>MAY 13<br>APR 26 | JUN 24<br>JUN 02<br>MAY 14 | JUL 11<br>JUN 23<br>MAY 31 | AUG 13<br>AUG 31<br>SEP 16 | AUG 31<br>SEP 20<br>OCT 02 | SEP 19<br>OCT 09<br>OCT 19 | 95<br>134<br>165           | 68<br>108<br>141    | 40<br>83<br>117    | 58<br>46<br>33                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                     |                    | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|---------------------|--------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                     |                    |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                  | 90                 |                                   |  |
| CALIFORNIA                |                               |                            |                            |                            |                            |                            |                            |                         |                     |                    |                                   |  |
| FORT BRAGG                | 36<br>32<br>28                | MAR 23<br>JAN 01<br>-      | APR 17<br>FEB 22<br>-      | MAY 13<br>APR 11<br>FEB 12 | OCT 30<br>NOV 10<br>DEC 30 | NOV 21<br>DEC 16<br>-      | DEC 13<br>JAN 26<br>-      | 251<br>>365<br>>365     | 217<br>295<br>>365  | 183<br>239<br>>365 | 9<br>3<br>0                       |  |
| FORT JONES RANGER STA     | 36<br>32<br>28                | JUN 04<br>MAY 16<br>APR 27 | JUN 23<br>JUN 04<br>MAY 15 | JUL 12<br>JUN 23<br>JUN 02 | AUG 18<br>SEP 02<br>SEP 16 | SEP 03<br>SEP 19<br>OCT 03 | SEP 19<br>OCT 07<br>OCT 19 | 98<br>133<br>165        | 71<br>107<br>140    | 45<br>80<br>115    | 58<br>45<br>29                    |  |
| FORT ROSS                 | 36<br>32<br>28                | FEB 12<br>-<br>-           | MAR 30<br>JAN 28<br>-      | MAY 16<br>MAY 22<br>JAN 13 | OCT 20<br>DEC 01<br>FEB 05 | DEC 02<br>JAN 26<br>-      | JAN 14<br>-                | 314<br>>365<br>>365     | 246<br>>365<br>>365 | 178<br>279<br>>365 | 5<br>1<br>0                       |  |
| FRESNO WSO                | 36<br>32<br>28                | FEB 28<br>JAN 15<br>-      | MAR 29<br>FEB 22<br>JAN 19 | APR 27<br>APR 01<br>FEB 23 | OCT 27<br>NOV 07<br>NOV 17 | NOV 12<br>NOV 25<br>DEC 14 | NOV 27<br>DEC 13<br>-      | 262<br>316<br>>365      | 227<br>273<br>330   | 192<br>234<br>289  | 16<br>7<br>2                      |  |
| FRIANT GOVERNMENT CAMP    | 36<br>32<br>28                | APR 04<br>MAR 04<br>JAN 02 | APR 24<br>APR 05<br>FEB 18 | MAY 15<br>MAY 06<br>APR 01 | OCT 20<br>NOV 01<br>NOV 17 | NOV 07<br>NOV 21<br>DEC 18 | NOV 25<br>DEC 12<br>JAN 22 | 227<br>273<br>364       | 196<br>230<br>304   | 165<br>187<br>258  | 20<br>9<br>3                      |  |
| GLENNVILLE                | 36<br>32<br>28                | MAY 23<br>MAY 10<br>APR 05 | JUN 12<br>MAY 28<br>MAY 03 | JUL 02<br>JUN 14<br>MAY 31 | AUG 25<br>SEP 16<br>OCT 13 | SEP 20<br>OCT 09<br>NOV 01 | OCT 16<br>NOV 01<br>NOV 19 | 137<br>163<br>215       | 99<br>134<br>181    | 61<br>105<br>148   | 49<br>35<br>20                    |  |
| GRANT GROVE               | 36<br>32<br>28                | MAY 31<br>MAY 26<br>MAY 01 | JUN 14<br>JUN 07<br>MAY 19 | JUN 27<br>JUN 19<br>JUN 07 | AUG 22<br>SEP 05<br>SEP 25 | SEP 13<br>OCT 01<br>OCT 20 | OCT 05<br>OCT 26<br>NOV 14 | 118<br>143<br>184       | 91<br>115<br>153    | 63<br>87<br>122    | 54<br>42<br>29                    |  |
| GRATON                    | 36<br>32<br>28                | APR 21<br>MAR 10<br>JAN 02 | MAY 14<br>APR 09<br>FEB 09 | JUN 06<br>MAY 09<br>MAR 16 | SEP 22<br>OCT 23<br>NOV 10 | OCT 18<br>NOV 11<br>DEC 02 | NOV 13<br>NOV 29<br>DEC 25 | 195<br>247<br>350       | 156<br>215<br>296   | 118<br>183<br>254  | 25<br>13<br>4                     |  |
| HAIWEE                    | 36<br>32<br>28                | APR 01<br>MAR 10<br>FEB 08 | APR 24<br>APR 03<br>MAR 10 | MAY 16<br>APR 28<br>APR 09 | OCT 16<br>OCT 26<br>NOV 10 | OCT 31<br>NOV 11<br>NOV 25 | NOV 16<br>NOV 27<br>DEC 09 | 217<br>251<br>295       | 190<br>221<br>259   | 163<br>191<br>223  | 32<br>21<br>11                    |  |
| HALF MOON BAY             | 36<br>32<br>28                | JAN 09<br>-<br>-           | FEB 28<br>DEC 15<br>-      | APR 20<br>FEB 23<br>-      | NOV 02<br>DEC 01<br>-      | DEC 07<br>FEB 08<br>-      | JAN 15<br>-                | 347<br>>365<br>>365     | 281<br>>365<br>>365 | 221<br>322<br>>365 | 3<br>0<br>0                       |  |
| HANFORD                   | 36<br>32<br>28                | MAR 13<br>FEB 16<br>JAN 02 | APR 07<br>MAR 14<br>FEB 03 | MAY 03<br>APR 08<br>MAR 08 | OCT 16<br>OCT 30<br>NOV 09 | NOV 01<br>NOV 15<br>NOV 29 | NOV 16<br>DEC 01<br>DEC 19 | 235<br>279<br>340       | 207<br>246<br>298   | 178<br>213<br>256  | 21<br>12<br>5                     |  |
| HAPPY CAMP RANGER STA     | 36<br>32<br>28                | MAY 01<br>APR 17<br>FEB 21 | MAY 21<br>MAY 01<br>MAR 22 | JUN 10<br>MAY 16<br>APR 21 | SEP 15<br>SEP 24<br>OCT 24 | OCT 04<br>OCT 20<br>NOV 20 | OCT 23<br>NOV 16<br>DEC 18 | 163<br>206<br>279       | 135<br>171<br>242   | 106<br>137<br>206  | 37<br>22<br>8                     |  |
| HAT CREEK PH NO 1         | 36<br>32<br>28                | JUN 07<br>MAY 14<br>APR 27 | JUN 26<br>JUN 02<br>MAY 12 | JUL 15<br>JUN 21<br>MAY 26 | AUG 10<br>AUG 25<br>SEP 17 | AUG 28<br>SEP 17<br>OCT 04 | SEP 15<br>OCT 09<br>OCT 21 | 94<br>132<br>169        | 62<br>106<br>145    | 31<br>79<br>121    | 61<br>48<br>34                    |  |
| HAYFIELD PUMPING PLANT    | 36<br>32<br>28                | FEB 18<br>JAN 12<br>-      | MAR 15<br>FEB 21<br>FEB 01 | APR 10<br>MAR 29<br>MAR 04 | NOV 04<br>NOV 17<br>DEC 01 | NOV 20<br>DEC 06<br>DEC 25 | DEC 07<br>DEC 30<br>-      | 276<br>>365<br>>365     | 249<br>291<br>329   | 222<br>254<br>291  | 10<br>4<br>1                      |  |
| HEALDSBURG                | 36<br>32<br>28                | MAR 09<br>JAN 23<br>-      | APR 03<br>FEB 24<br>JAN 17 | APR 29<br>MAR 28<br>FEB 14 | OCT 24<br>NOV 09<br>DEC 02 | NOV 10<br>NOV 29<br>DEC 30 | NOV 26<br>DEC 20<br>-      | 252<br>317<br>>365      | 220<br>278<br>360   | 188<br>238<br>307  | 13<br>5<br>1                      |  |
| HENSHAW DAM               | 36<br>32<br>28                | MAY 02<br>APR 05<br>MAR 05 | MAY 28<br>APR 28<br>MAR 31 | JUN 23<br>MAY 21<br>APR 27 | SEP 11<br>OCT 04<br>OCT 28 | OCT 04<br>OCT 23<br>NOV 11 | OCT 27<br>NOV 11<br>NOV 26 | 168<br>208<br>255       | 128<br>178<br>224   | 89<br>147<br>194   | 41<br>28<br>15                    |  |
| HETCH HETCHY              | 36<br>32<br>28                | MAY 05<br>APR 24<br>MAR 22 | MAY 21<br>MAY 13<br>APR 13 | JUN 05<br>JUN 01<br>MAY 05 | SEP 21<br>OCT 09<br>NOV 02 | OCT 13<br>OCT 28<br>NOV 17 | NOV 04<br>NOV 17<br>DEC 01 | 175<br>195<br>244       | 144<br>168<br>217   | 113<br>140<br>190  | 43<br>30<br>15                    |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                     |                    | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------|--------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                     |                    |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                  | 90                 |                                   |  |
| CALIFORNIA                |                               |                            |                            |                            |                            |                            |                            |                            |                     |                    |                                   |  |
| HUNTINGTON LAKE           | 36<br>32<br>28                | JUN 06<br>MAY 25<br>MAY 07 | JUN 23<br>JUN 09<br>MAY 25 | JUL 09<br>JUN 25<br>JUN 12 | AUG 16<br>SEP 07<br>SEP 25 | SEP 08<br>SEP 27<br>OCT 15 | OCT 02<br>OCT 17<br>NOV 05 | 107<br>133<br>172          | 77<br>109<br>142    | 47<br>84<br>112    | 63<br>51<br>36                    |  |
| IMPERIAL                  | 36<br>32<br>28                | DEC 29<br>-<br>-           | FEB 05<br>JAN 15<br>-      | MAR 12<br>FEB 24<br>JAN 18 | NOV 16<br>DEC 04<br>DEC 22 | DEC 09<br>DEC 29<br>-      | JAN 09<br>-                | >365<br>>365<br>>365       | 304<br>352<br>>365  | 264<br>298<br>351  | 4<br>1<br>0                       |  |
| INDIO U S DATE GARDEN     | 36<br>32<br>28                | FEB 09<br>JAN 09<br>-      | MAR 02<br>FEB 09<br>JAN 19 | MAR 22<br>MAR 12<br>FEB 26 | NOV 08<br>NOV 14<br>NOV 24 | NOV 21<br>DEC 07<br>DEC 25 | DEC 04<br>DEC 30<br>-      | 288<br>341<br>>365         | 264<br>299<br>339   | 239<br>262<br>290  | 10<br>4<br>1                      |  |
| INYOKERN                  | 36<br>32<br>28                | APR 07<br>MAR 13<br>FEB 13 | APR 27<br>APR 06<br>MAR 17 | MAY 18<br>MAY 01<br>APR 18 | OCT 13<br>OCT 21<br>NOV 07 | OCT 28<br>NOV 07<br>NOV 18 | NOV 13<br>NOV 24<br>NOV 30 | 212<br>243<br>283          | 183<br>214<br>246   | 155<br>185<br>210  | 29<br>19<br>11                    |  |
| IRON MOUNTAIN             | 36<br>32<br>28                | DEC 31<br>-<br>-           | FEB 02<br>JAN 03<br>-      | MAR 04<br>FEB 14<br>JAN 10 | NOV 20<br>DEC 11<br>DEC 28 | DEC 14<br>JAN 02<br>-      | JAN 14<br>-                | >365<br>>365<br>>365       | 313<br>322<br>363   | 273<br>322<br>363  | 3<br>1<br>0                       |  |
| JESS VALLEY               | 36<br>32<br>28                | JUN 23<br>JUN 05<br>MAY 09 | JUL 05<br>JUN 20<br>MAY 28 | JUL 17<br>JUL 05<br>JUN 16 | AUG 06<br>AUG 22<br>SEP 07 | AUG 23<br>SEP 11<br>SEP 27 | SEP 10<br>OCT 01<br>OCT 17 | 70<br>109<br>146           | 48<br>82<br>121     | 27<br>55<br>97     | 64<br>53<br>39                    |  |
| JULIAN HYNOLA             | 36<br>32<br>28                | MAY 14<br>APR 14<br>FEB 19 | JUN 11<br>MAY 24<br>APR 20 | JUL 08<br>JUL 02<br>JUN 19 | AUG 15<br>SEP 05<br>SEP 23 | SEP 24<br>OCT 18<br>NOV 07 | NOV 03<br>NOV 29<br>DEC 21 | 167<br>222<br>288          | 105<br>147<br>197   | 42<br>71<br>114    | 35<br>20<br>9                     |  |
| KENTFIELD                 | 36<br>32<br>28                | FEB 26<br>JAN 08<br>-      | APR 03<br>FEB 16<br>JAN 11 | MAY 09<br>MAR 23<br>FEB 26 | OCT 26<br>NOV 16<br>NOV 30 | NOV 17<br>DEC 06<br>JAN 09 | DEC 09<br>JAN 02<br>-      | 276<br>>365<br>>365        | 227<br>296<br>>365  | 179<br>248<br>301  | 12<br>4<br>1                      |  |
| KERN RIVER PH NO 1        | 36<br>32<br>28                | JAN 04<br>-<br>-           | FEB 10<br>JAN 03<br>-      | MAR 19<br>FEB 06<br>DEC 29 | NOV 21<br>DEC 17<br>DEC 24 | DEC 19<br>JAN 04<br>-      | JAN 16<br>-                | 358<br>>365<br>>365        | 309<br>>365<br>>365 | 271<br>324<br>>365 | 3<br>1<br>0                       |  |
| KERN RIVER PH NO 3        | 36<br>32<br>28                | APR 14<br>MAR 14<br>FEB 01 | MAY 02<br>APR 04<br>FEB 28 | MAY 19<br>APR 26<br>MAR 28 | OCT 14<br>OCT 24<br>NOV 07 | OCT 26<br>NOV 08<br>NOV 21 | NOV 07<br>NOV 24<br>DEC 05 | 199<br>245<br>297          | 177<br>217<br>265   | 154<br>189<br>232  | 27<br>17<br>7                     |  |
| KETTLEMAN STATION         | 36<br>32<br>28                | JAN 31<br>DEC 28<br>-      | MAR 02<br>JAN 30<br>JAN 06 | APR 01<br>MAR 01<br>FEB 08 | NOV 12<br>NOV 19<br>DEC 10 | NOV 29<br>DEC 17<br>JAN 03 | DEC 15<br>JAN 22<br>-      | 308<br>>365<br>>365        | 271<br>320<br>>365  | 235<br>289<br>314  | 7<br>3<br>1                       |  |
| KING CITY                 | 36<br>32<br>28                | APR 14<br>MAR 10<br>JAN 14 | MAY 11<br>APR 06<br>FEB 24 | JUN 08<br>MAY 03<br>APR 05 | SEP 20<br>OCT 03<br>NOV 06 | OCT 18<br>NOV 01<br>NOV 25 | NOV 14<br>NOV 30<br>DEC 14 | 196<br>253<br>315          | 159<br>208<br>273   | 121<br>164<br>232  | 24<br>14<br>6                     |  |
| KLAMATH                   | 36<br>32<br>28                | APR 14<br>FEB 13<br>-      | MAY 03<br>MAR 21<br>JAN 24 | MAY 21<br>APR 27<br>MAR 18 | OCT 13<br>OCT 27<br>NOV 11 | NOV 03<br>NOV 28<br>DEC 25 | NOV 24<br>DEC 30<br>-      | 211<br>295<br>>365         | 184<br>248<br>355   | 156<br>205<br>266  | 16<br>6<br>1                      |  |
| LAGUNA BEACH              | 36<br>32<br>28                | JAN 25<br>-<br>-           | MAR 14<br>JAN 25<br>-      | APR 27<br>APR 02<br>DEC 30 | NOV 09<br>NOV 23<br>DEC 19 | DEC 07<br>JAN 05<br>-      | JAN 07<br>-                | 352<br>>365<br>>365        | 270<br>>365<br>>365 | 206<br>261<br>>365 | 5<br>1<br>0                       |  |
| LAKE ARROWHEAD            | 36<br>32<br>28                | MAY 19<br>MAY 01<br>MAY 25 | JUN 03<br>MAY 16<br>APR 20 | JUN 18<br>MAY 31<br>MAY 16 | SEP 21<br>OCT 10<br>OCT 26 | OCT 10<br>NOV 13<br>NOV 12 | OCT 30<br>185<br>241       | 154<br>185<br>241          | 129<br>163<br>206   | 104<br>141<br>170  | 44<br>30<br>15                    |  |
| LAKEPORT                  | 36<br>32<br>28                | MAY 01<br>APR 12<br>FEB 23 | MAY 20<br>APR 28<br>MAR 24 | JUN 09<br>MAY 13<br>APR 22 | SEP 26<br>OCT 18<br>NOV 01 | OCT 12<br>NOV 02<br>NOV 15 | OCT 29<br>NOV 17<br>NOV 30 | 170<br>210<br>271          | 144<br>188<br>236   | 118<br>166<br>200  | 33<br>21<br>10                    |  |
| LAKE SPAULDING            | 36<br>32<br>28                | JUN 10<br>MAY 21<br>APR 25 | JUN 25<br>JUN 09<br>MAY 16 | JUL 10<br>JUN 28<br>JUN 05 | AUG 10<br>SEP 01<br>SEP 23 | SEP 03<br>SEP 27<br>OCT 16 | SEP 28<br>OCT 23<br>NOV 07 | 97<br>140<br>190           | 70<br>109<br>152    | 42<br>78<br>115    | 60<br>48<br>31                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                     |                     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|---------------------|---------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                     |                     |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                  | 90                  |                                   |  |
| CALIFORNIA                |                               |                            |                            |                            |                            |                            |                            |                         |                     |                     |                                   |  |
| LA MESA                   | 36<br>32<br>28                | -<br>-<br>-                | JAN 16<br>-<br>-           | MAR 02<br>JAN 15<br>-      | NOV 27<br>DEC 09<br>-      | DEC 24<br>-<br>-           | -                          | >365<br>>365<br>>365    | 336<br>>365<br>>365 | 293<br>>365<br>>365 | 1<br>0<br>0                       |  |
| LE GRAND                  | 36<br>32<br>28                | MAR 20<br>FEB 17<br>DEC 23 | APR 09<br>MAR 15<br>JAN 27 | APR 30<br>APR 10<br>MAR 03 | OCT 24<br>NOV 03<br>NOV 15 | NOV 08<br>NOV 20<br>DEC 10 | NOV 22<br>DEC 06<br>JAN 04 | 239<br>276<br>355       | 212<br>249<br>315   | 184<br>222<br>280   | 18<br>9<br>3                      |  |
| LEMON COVE                | 36<br>32<br>28                | MAR 06<br>JAN 16<br>-      | APR 03<br>FEB 23<br>JAN 16 | MAY 02<br>APR 02<br>FEB 21 | OCT 31<br>NOV 10<br>NOV 24 | NOV 16<br>NOV 27<br>DEC 25 | DEC 01<br>DEC 15<br>-      | 262<br>322<br>>365      | 226<br>277<br>343   | 189<br>231<br>298   | 14<br>6<br>2                      |  |
| LINDSAY                   | 36<br>32<br>28                | MAR 18<br>FEB 07<br>DEC 22 | APR 11<br>MAR 10<br>FEB 04 | MAY 05<br>APR 10<br>MAR 19 | OCT 21<br>NOV 05<br>NOV 14 | NOV 06<br>NOV 20<br>DEC 08 | NOV 21<br>DEC 04<br>JAN 01 | 236<br>287<br>355       | 208<br>254<br>306   | 180<br>220<br>261   | 20<br>10<br>4                     |  |
| LIVERMORE COUNTY F D      | 36<br>32<br>28                | APR 04<br>FEB 27<br>DEC 21 | APR 24<br>MAR 29<br>FEB 05 | MAY 13<br>APR 27<br>MAR 18 | OCT 21<br>NOV 03<br>NOV 15 | NOV 06<br>NOV 17<br>DEC 05 | NOV 22<br>DEC 02<br>DEC 26 | 224<br>262<br>>365      | 196<br>233<br>302   | 168<br>204<br>258   | 22<br>11<br>4                     |  |
| LODI                      | 36<br>32<br>28                | MAR 13<br>FEB 09<br>DEC 27 | APR 07<br>MAR 06<br>FEB 02 | MAY 02<br>MAR 31<br>MAR 10 | OCT 18<br>NOV 02<br>NOV 18 | NOV 03<br>NOV 16<br>DEC 06 | NOV 19<br>NOV 30<br>DEC 25 | 240<br>280<br>341       | 209<br>254<br>307   | 178<br>229<br>272   | 17<br>9<br>3                      |  |
| LOMPOC                    | 36<br>32<br>28                | MAR 09<br>JAN 25<br>-      | APR 15<br>MAR 04<br>JAN 11 | MAY 21<br>APR 11<br>FEB 22 | OCT 16<br>NOV 07<br>NOV 20 | NOV 06<br>DEC 03<br>JAN 03 | NOV 27<br>DEC 31<br>-      | 245<br>326<br>>365      | 204<br>272<br>>365  | 164<br>223<br>296   | 12<br>4<br>1                      |  |
| LOS BANOS                 | 36<br>32<br>28                | MAR 04<br>FEB 05<br>DEC 26 | MAR 30<br>MAR 07<br>FEB 01 | APR 26<br>APR 06<br>MAR 06 | OCT 26<br>NOV 06<br>NOV 14 | NOV 09<br>NOV 20<br>DEC 08 | NOV 24<br>DEC 04<br>JAN 04 | 252<br>289<br>364       | 223<br>258<br>311   | 194<br>227<br>269   | 17<br>9<br>4                      |  |
| LOS GATOS                 | 36<br>32<br>28                | MAR 20<br>JAN 13<br>-      | APR 14<br>FEB 26<br>JAN 15 | MAY 09<br>APR 10<br>FEB 17 | OCT 27<br>NOV 09<br>DEC 02 | NOV 13<br>DEC 02<br>JAN 05 | NOV 30<br>DEC 25<br>-      | 240<br>323<br>>365      | 212<br>279<br>357   | 184<br>235<br>310   | 14<br>5<br>1                      |  |
| MADERA                    | 36<br>32<br>28                | MAR 13<br>JAN 29<br>DEC 18 | APR 06<br>MAR 04<br>JAN 26 | MAY 01<br>APR 08<br>MAR 07 | OCT 16<br>NOV 04<br>NOV 16 | NOV 03<br>NOV 20<br>DEC 07 | NOV 21<br>DEC 07<br>DEC 28 | 242<br>298<br>>365      | 210<br>260<br>313   | 178<br>222<br>268   | 17<br>9<br>3                      |  |
| MANZANITA LAKE            | 36<br>32<br>28                | JUN 12<br>MAY 26<br>MAY 08 | JUL 02<br>JUN 16<br>MAY 28 | JUL 22<br>JUL 07<br>JUN 17 | AUG 05<br>AUG 27<br>SEP 20 | AUG 25<br>SEP 16<br>OCT 09 | SEP 14<br>OCT 06<br>OCT 28 | 85<br>120<br>160        | 53<br>92<br>133     | 21<br>63<br>105     | 64<br>53<br>38                    |  |
| MARICOPA                  | 36<br>32<br>28                | FEB 01<br>JAN 13<br>-      | MAR 14<br>FEB 09<br>JAN 06 | APR 23<br>MAR 08<br>FEB 03 | NOV 06<br>NOV 13<br>DEC 02 | NOV 20<br>DEC 08<br>DEC 26 | DEC 04<br>JAN 03<br>-      | 294<br>338<br>>365      | 250<br>300<br>355   | 207<br>266<br>314   | 11<br>5<br>2                      |  |
| MARYSVILLE                | 36<br>32<br>28                | FEB 10<br>JAN 05<br>-      | MAR 11<br>FEB 09<br>JAN 07 | APR 09<br>MAR 16<br>FEB 12 | NOV 06<br>NOV 14<br>NOV 28 | NOV 17<br>DEC 02<br>DEC 27 | NOV 29<br>DEC 21<br>-      | 283<br>334<br>>365      | 250<br>295<br>357   | 218<br>257<br>313   | 12<br>5<br>1                      |  |
| MC CLOUD                  | 36<br>32<br>28                | JUN 13<br>MAY 22<br>APR 30 | JUL 02<br>JUN 13<br>MAY 19 | JUL 21<br>JUL 05<br>JUN 07 | AUG 04<br>AUG 25<br>SEP 13 | AUG 30<br>OCT 17<br>OCT 07 | SEP 25<br>OCT 10<br>OCT 31 | 93<br>132<br>171        | 58<br>96<br>140     | 23<br>59<br>110     | 61<br>48<br>32                    |  |
| MECCA FIRE STATION        | 36<br>32<br>28                | FEB 10<br>JAN 17<br>-      | MAR 03<br>FEB 13<br>JAN 20 | MAR 25<br>MAR 12<br>FEB 26 | NOV 05<br>NOV 12<br>NOV 23 | NOV 22<br>DEC 08<br>DEC 26 | DEC 09<br>JAN 03<br>-      | 291<br>332<br>>365      | 263<br>297<br>337   | 234<br>262<br>289   | 10<br>5<br>2                      |  |
| MERCED FIRE STATION 2     | 36<br>32<br>28                | MAR 18<br>FEB 20<br>DEC 28 | APR 13<br>MAR 19<br>FEB 04 | MAY 09<br>APR 14<br>MAR 15 | OCT 06<br>OCT 31<br>NOV 08 | OCT 30<br>NOV 17<br>DEC 04 | NOV 23<br>DEC 03<br>DEC 30 | 235<br>274<br>345       | 199<br>242<br>302   | 163<br>211<br>259   | 18<br>9<br>4                      |  |
| MINERAL                   | 36<br>32<br>28                | JUN 24<br>MAY 30<br>MAY 10 | JUL 09<br>JUN 22<br>MAY 31 | JUL 25<br>JUL 14<br>JUN 21 | JUL 30<br>AUG 07<br>SEP 10 | AUG 15<br>AUG 29<br>SEP 30 | SEP 01<br>SEP 19<br>OCT 20 | 64<br>103<br>151        | 36<br>67<br>121     | 9<br>31<br>92       | 68<br>55<br>38                    |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                      |                     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|----------------------|---------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                      |                     |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                   | 90                  |                                   |  |
| CALIFORNIA                |                               |                            |                            |                            |                            |                            |                            |                         |                      |                     |                                   |  |
| MODESTO                   | 36<br>32<br>28                | MAR 01<br>JAN 28           | MAR 27<br>FEB 26<br>JAN 13 | APR 22<br>MAR 28<br>FEB 16 | OCT 27<br>NOV 10<br>NOV 25 | NOV 11<br>NOV 29<br>DEC 18 | NOV 25                     | 259<br>315<br>>365      | 228<br>275<br>339    | 198<br>235<br>305   | 13<br>6<br>2                      |  |
| MONO LAKE                 | 36<br>32<br>28                | MAY 30<br>MAY 08<br>APR 20 | JUN 14<br>MAY 29<br>MAY 14 | JUN 30<br>JUN 19<br>JUN 07 | AUG 29<br>SEP 10<br>SEP 26 | SEP 19<br>OCT 02<br>OCT 18 | OCT 11<br>OCT 24<br>NOV 08 | 124<br>153<br>193       | 96<br>125<br>156     | 69<br>98<br>118     | 59<br>48<br>37                    |  |
| MONTEREY                  | 36<br>32<br>28                | DEC 26<br>-<br>-           | FEB 17<br>DEC 08<br>-      | APR 06<br>FEB 11<br>JAN 05 | NOV 25<br>DEC 11<br>JAN 10 | DEC 17<br>-                | JAN 11<br>-                | >365<br>>365<br>>365    | 307<br>324<br>365    | 257<br>324<br>>365  | 2<br>0<br>0                       |  |
| MOUNT HAMILTON            | 36<br>32<br>28                | MAY 12<br>APR 21<br>MAR 25 | JUN 02<br>MAY 13<br>APR 21 | JUN 24<br>JUN 04<br>MAY 17 | OCT 02<br>OCT 25<br>NOV 07 | OCT 22<br>NOV 12<br>NOV 30 | NOV 12<br>NOV 29<br>DEC 23 | 173<br>210<br>258       | 141<br>182<br>222    | 109<br>154<br>186   | 27<br>17<br>8                     |  |
| MOUNT SHASTA WSO          | 36<br>32<br>28                | MAY 21<br>MAY 06<br>APR 13 | JUN 08<br>MAY 25<br>MAY 02 | JUN 25<br>JUN 13<br>MAY 22 | SEP 02<br>SEP 12<br>OCT 01 | SEP 19<br>OCT 02<br>OCT 22 | OCT 07<br>OCT 21<br>NOV 11 | 124<br>152<br>198       | 103<br>129<br>172    | 82<br>106<br>145    | 51<br>38<br>22                    |  |
| MOUNT WILSON FC 338 B     | 36<br>32<br>28                | MAY 10<br>APR 27<br>APR 11 | MAY 29<br>MAY 18<br>APR 30 | JUN 17<br>JUN 08<br>MAY 19 | SEP 26<br>OCT 11<br>OCT 23 | OCT 20<br>NOV 04<br>NOV 19 | NOV 13<br>NOV 29<br>DEC 16 | 174<br>204<br>231       | 143<br>170<br>202    | 112<br>136<br>174   | 25<br>17<br>9                     |  |
| NAPA STATE HOSPITAL       | 36<br>32<br>28                | APR 02<br>FEB 09<br>-      | APR 20<br>MAR 20<br>JAN 20 | MAY 08<br>APR 28<br>MAR 01 | OCT 29<br>NOV 09<br>NOV 18 | NOV 13<br>NOV 26<br>DEC 27 | NOV 29<br>DEC 12<br>-      | 231<br>294<br>>365      | 207<br>250<br>341    | 183<br>206<br>292   | 15<br>6<br>1                      |  |
| NEEDLES FAA AIRPORT       | 36<br>32<br>28                | JAN 25<br>-<br>-           | FEB 18<br>JAN 28<br>DEC 29 | MAR 13<br>MAR 02<br>FEB 10 | NOV 15<br>NOV 30<br>DEC 18 | DEC 07<br>DEC 23<br>FEB 05 | JAN 01<br>-                | 329<br>>365<br>>365     | 292<br>337<br>>365   | 259<br>288<br>333   | 5<br>2<br>0                       |  |
| NEVADA CITY               | 36<br>32<br>28                | MAY 12<br>APR 28<br>MAR 15 | MAY 30<br>MAY 17<br>APR 11 | JUN 16<br>JUN 04<br>MAY 09 | SEP 09<br>SEP 24<br>OCT 13 | SEP 28<br>OCT 15<br>NOV 04 | OCT 17<br>NOV 04<br>NOV 26 | 148<br>175<br>245       | 120<br>150<br>206    | 93<br>126<br>168    | 44<br>32<br>17                    |  |
| NEWPORT BEACH HARBOR      | 36<br>32<br>28                | -<br>-<br>-                | JAN 15<br>JAN 12<br>-      | FEB 26<br>JAN 12<br>-      | DEC 02<br>JAN 17<br>-      | JAN 15<br>-                | -                          | >365<br>>365<br>>365    | >365<br>>365<br>>365 | 296<br>365<br>>365  | 1<br>0<br>0                       |  |
| OJAI                      | 36<br>32<br>28                | MAR 16<br>FEB 07<br>DEC 02 | APR 13<br>MAR 10<br>JAN 21 | MAY 11<br>APR 09<br>MAR 01 | OCT 25<br>NOV 05<br>NOV 23 | NOV 09<br>NOV 28<br>DEC 22 | NOV 23<br>DEC 21<br>JAN 27 | 243<br>293<br>>365      | 209<br>263<br>331    | 174<br>232<br>284   | 17<br>7<br>1                      |  |
| ORANGE COVE               | 36<br>32<br>28                | MAR 22<br>JAN 31<br>DEC 15 | APR 11<br>MAR 05<br>JAN 28 | MAY 01<br>APR 08<br>MAR 03 | OCT 30<br>NOV 09<br>NOV 16 | NOV 13<br>NOV 28<br>DEC 15 | NOV 28<br>DEC 16<br>-      | 242<br>307<br>>365      | 216<br>266<br>322    | 189<br>226<br>275   | 17<br>8<br>2                      |  |
| ORICK PRAIRIE CREEK PK    | 36<br>32<br>28                | APR 30<br>APR 06<br>JAN 18 | MAY 24<br>APR 27<br>MAR 04 | JUN 16<br>MAY 18<br>APR 15 | SEP 10<br>OCT 04<br>NOV 08 | OCT 07<br>NOV 05<br>DEC 12 | NOV 04<br>DEC 08<br>JAN 19 | 177<br>232<br>>365      | 136<br>192<br>280    | 95<br>151<br>229    | 22<br>10<br>2                     |  |
| ORLAND                    | 36<br>32<br>28                | MAR 18<br>FEB 07<br>DEC 23 | APR 11<br>MAR 12<br>FEB 01 | MAY 05<br>APR 15<br>MAR 14 | OCT 28<br>NOV 08<br>NOV 22 | NOV 10<br>NOV 23<br>DEC 15 | NOV 23<br>DEC 09<br>JAN 07 | 241<br>295<br>>365      | 212<br>255<br>314    | 183<br>215<br>272   | 17<br>8<br>3                      |  |
| ORLEANS                   | 36<br>32<br>28                | APR 13<br>MAR 02<br>JAN 10 | MAY 04<br>APR 04<br>FEB 16 | MAY 24<br>MAY 08<br>MAR 25 | SEP 23<br>OCT 24<br>NOV 04 | OCT 22<br>NOV 17<br>DEC 07 | NOV 20<br>DEC 11<br>JAN 08 | 212<br>267<br>339       | 170<br>225<br>291    | 129<br>184<br>246   | 22<br>11<br>4                     |  |
| OXNARD                    | 36<br>32<br>28                | -<br>-<br>-                | FEB 13<br>-<br>-           | APR 05<br>FEB 09<br>-      | NOV 22<br>DEC 24<br>-      | DEC 17<br>-                | -                          | >365<br>>365<br>>365    | 309<br>>365<br>>365  | 250<br>>365<br>>365 | 3<br>0<br>0                       |  |
| PALMDALE                  | 36<br>32<br>28                | APR 08<br>MAR 11<br>JAN 31 | APR 28<br>APR 06<br>MAR 04 | MAY 18<br>MAY 02<br>APR 05 | OCT 07<br>OCT 27<br>NOV 04 | OCT 28<br>NOV 11<br>NOV 20 | NOV 17<br>NOV 25<br>DEC 07 | 214<br>248<br>299       | 182<br>218<br>260    | 149<br>188<br>222   | 26<br>17<br>8                     |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                     |                    | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|---------------------|--------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                     |                    |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                  | 90                 |                                   |  |
| CALIFORNIA                |                               |                            |                            |                            |                            |                            |                            |                         |                     |                    |                                   |  |
| PALM SPRINGS              | 36<br>32<br>28                | JAN 21<br>-<br>-           | FEB 28<br>FEB 04<br>JAN 02 | APR 07<br>MAR 06<br>FEB 10 | NOV 06<br>NOV 18<br>DEC 05 | NOV 27<br>DEC 19<br>JAN 14 | DEC 19<br>-<br>-           | 327<br>>365<br>>365     | 271<br>317<br>317   | 221<br>263<br>317  | 6<br>2<br>1                       |  |
| PALO ALTO JR MUSEUM       | 36<br>32<br>28                | FEB 28<br>JAN 14<br>-      | MAR 29<br>FEB 22<br>DEC 28 | APR 27<br>MAR 30<br>JAN 31 | OCT 30<br>NOV 09<br>NOV 28 | NOV 15<br>DEC 07<br>DEC 22 | DEC 01<br>JAN 08<br>-      | 266<br>>365<br>>365     | 230<br>287<br>321   | 195<br>243<br>321  | 12<br>5<br>1                      |  |
| PALOMAR MT OBSERVATORY    | 36<br>32<br>28                | MAY 14<br>APR 24<br>MAR 31 | JUN 02<br>MAY 18<br>APR 27 | JUN 20<br>JUN 10<br>MAY 23 | OCT 02<br>OCT 14<br>OCT 29 | OCT 24<br>NOV 02<br>NOV 24 | NOV 14<br>NOV 20<br>DEC 21 | 176<br>200<br>249       | 143<br>167<br>210   | 111<br>135<br>171  | 30<br>20<br>10                    |  |
| PARKER RESERVOIR          | 36<br>32<br>28                | DEC 03<br>-<br>-           | JAN 30<br>DEC 28<br>-      | MAR 16<br>FEB 10<br>-      | NOV 27<br>DEC 13<br>-      | DEC 17<br>JAN 27<br>-      | -<br>-<br>-                | >365<br>>365<br>>365    | 324<br>325<br>>365  | 274<br>325<br>>365 | 2<br>1<br>0                       |  |
| PASADENA                  | 36<br>32<br>28                | DEC 23<br>-<br>-           | FEB 14<br>-<br>-           | APR 04<br>FEB 03<br>DEC 16 | NOV 21<br>DEC 13<br>JAN 01 | DEC 23<br>-<br>-           | FEB 02<br>-<br>-           | >365<br>>365<br>>365    | 304<br>325<br>>365  | 253<br>325<br>>365 | 3<br>0<br>0                       |  |
| PASO ROBLES               | 36<br>32<br>28                | MAY 02<br>MAY 24<br>JAN 30 | MAY 20<br>APR 20<br>MAR 15 | JUN 07<br>MAY 18<br>APR 28 | SEP 15<br>OCT 07<br>OCT 21 | OCT 05<br>OCT 23<br>NOV 09 | OCT 24<br>NOV 09<br>NOV 29 | 165<br>221<br>289       | 137<br>185<br>238   | 109<br>150<br>188  | 31<br>20<br>10                    |  |
| PASO ROBLES FAA AP        | 36<br>32<br>28                | APR 21<br>MAR 04<br>JAN 18 | MAY 07<br>APR 06<br>MAR 03 | MAY 22<br>MAY 08<br>APR 17 | OCT 08<br>OCT 20<br>NOV 01 | OCT 24<br>NOV 06<br>NOV 20 | NOV 09<br>NOV 22<br>DEC 09 | 191<br>252<br>310       | 169<br>213<br>261   | 148<br>175<br>212  | 27<br>16<br>7                     |  |
| PETALUMA FIRE STA 2       | 36<br>32<br>28                | MAR 25<br>FEB 09<br>DEC 07 | APR 17<br>MAR 19<br>JAN 28 | MAY 10<br>APR 25<br>MAR 10 | OCT 23<br>NOV 05<br>NOV 16 | NOV 06<br>NOV 22<br>DEC 11 | NOV 21<br>DEC 08<br>JAN 13 | 233<br>291<br>>365      | 203<br>247<br>316   | 173<br>204<br>271  | 16<br>7<br>2                      |  |
| PINNACLES NAT MONUMENT    | 36<br>32<br>28                | MAY 02<br>MAR 27<br>FEB 04 | MAY 25<br>APR 23<br>MAR 15 | JUN 17<br>MAY 21<br>APR 22 | SEP 28<br>OCT 18<br>NOV 08 | OCT 18<br>NOV 06<br>NOV 25 | NOV 06<br>NOV 24<br>DEC 12 | 173<br>231<br>296       | 145<br>196<br>255   | 116<br>161<br>213  | 30<br>16<br>6                     |  |
| PISMO BEACH               | 36<br>32<br>28                | FEB 10<br>-<br>-           | MAR 24<br>JAN 20<br>-      | MAY 06<br>MAR 11<br>JAN 10 | NOV 11<br>DEC 01<br>JAN 10 | DEC 13<br>JAN 07<br>-      | JAN 14<br>-<br>-           | 316<br>>365<br>>365     | 260<br>>365<br>>365 | 210<br>295<br>295  | 4<br>1<br>0                       |  |
| PLACERVILLE               | 36<br>32<br>28                | MAY 01<br>APR 01<br>FEB 23 | MAY 17<br>APR 25<br>MAR 24 | JUN 01<br>MAY 18<br>APR 22 | SEP 29<br>OCT 22<br>NOV 03 | OCT 17<br>NOV 06<br>NOV 20 | NOV 03<br>NOV 21<br>DEC 07 | 178<br>224<br>275       | 152<br>195<br>240   | 127<br>166<br>206  | 34<br>21<br>9                     |  |
| POMONA CAL POLY           | 36<br>32<br>28                | FEB 16<br>DEC 25<br>-      | MAR 26<br>FEB 18<br>JAN 08 | MAY 03<br>APR 01<br>MAR 09 | OCT 30<br>NOV 16<br>DEC 01 | NOV 21<br>DEC 10<br>JAN 06 | DEC 14<br>-<br>-           | 290<br>>365<br>>365     | 239<br>295<br>>365  | 189<br>236<br>294  | 12<br>4<br>1                      |  |
| PORTERVILLE               | 36<br>32<br>28                | FEB 26<br>JAN 19<br>DEC 12 | MAR 27<br>FEB 19<br>JAN 22 | APR 26<br>MAR 23<br>FEB 23 | OCT 29<br>NOV 08<br>NOV 24 | NOV 13<br>NOV 25<br>DEC 12 | NOV 29<br>DEC 12<br>JAN 14 | 266<br>316<br>>365      | 230<br>278<br>330   | 194<br>240<br>293  | 15<br>7<br>2                      |  |
| PRIEST VALLEY             | 36<br>32<br>28                | MAY 23<br>MAY 11<br>APR 10 | JUN 13<br>MAY 29<br>MAY 03 | JUL 05<br>JUN 15<br>MAY 25 | AUG 23<br>SEP 16<br>OCT 11 | SEP 18<br>OCT 07<br>OCT 27 | OCT 14<br>OCT 29<br>NOV 12 | 132<br>161<br>207       | 96<br>131<br>177    | 60<br>101<br>147   | 48<br>35<br>22                    |  |
| RANDSBURG                 | 36<br>32<br>28                | MAR 29<br>MAR 03<br>JAN 10 | APR 22<br>APR 01<br>FEB 22 | MAY 17<br>APR 29<br>APR 05 | OCT 25<br>OCT 31<br>NOV 15 | NOV 11<br>NOV 24<br>DEC 09 | NOV 28<br>DEC 18<br>JAN 01 | 235<br>279<br>334       | 202<br>237<br>289   | 169<br>195<br>245  | 18<br>9<br>3                      |  |
| RED BLUFF WSO             | 36<br>32<br>28                | FEB 27<br>JAN 14<br>DEC 09 | MAR 31<br>FEB 22<br>JAN 23 | MAY 01<br>APR 02<br>FEB 27 | NOV 06<br>NOV 14<br>NOV 25 | NOV 16<br>DEC 01<br>DEC 25 | NOV 27<br>DEC 18<br>FEB 02 | 264<br>323<br>>365      | 230<br>281<br>338   | 196<br>239<br>305  | 13<br>5<br>1                      |  |
| REDDING FIRE STN 4        | 36<br>32<br>28                | MAR 04<br>JAN 15<br>-      | APR 07<br>FEB 24<br>JAN 16 | MAY 10<br>APR 05<br>FEB 27 | OCT 31<br>NOV 06<br>NOV 21 | NOV 16<br>NOV 27<br>DEC 25 | DEC 03<br>DEC 17<br>-      | 262<br>321<br>>365      | 223<br>275<br>361   | 184<br>229<br>281  | 13<br>5<br>1                      |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                      |                      | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|----------------------|----------------------|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                      |                      |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                   | 90                   |                                 |  |
| CALIFORNIA                |                               |                            |                            |                            |                            |                            |                            |                         |                      |                      |                                 |  |
| REDLANDS                  | 36<br>32<br>28                | FEB 23<br>JAN 07<br>-      | MAR 28<br>FEB 13<br>DEC 31 | APR 29<br>MAR 19<br>FEB 08 | OCT 29<br>NOV 16<br>NOV 23 | NOV 23<br>DEC 08<br>JAN 05 | DEC 17<br>JAN 01<br>-      | 282<br>350<br>>365      | 239<br>296<br>>365   | 197<br>255<br>309    | 9<br>3<br>1                     |  |
| REDWOOD CITY              | 36<br>32<br>28                | FEB 24<br>JAN 10<br>-      | MAR 25<br>FEB 11<br>JAN 01 | APR 23<br>MAR 12<br>FEB 03 | NOV 02<br>NOV 17<br>DEC 15 | NOV 19<br>DEC 06<br>JAN 13 | DEC 05<br>JAN 01<br>-      | 271<br>365<br>>365      | 238<br>301<br>>365   | 205<br>264<br>329    | 11<br>4<br>1                    |  |
| RICHMOND                  | 36<br>32<br>28                | JAN 13<br>-<br>-           | FEB 19<br>JAN 07<br>-      | MAR 28<br>FEB 13<br>-      | NOV 21<br>DEC 15           | DEC 10<br>JAN 13           | DEC 28<br>-                | 333<br>365<br>>365      | 293<br>314<br>>365   | 253<br>314<br>>365   | 3<br>1<br>0                     |  |
| RIVERSIDE FIRE STA. #3    | 36<br>32<br>28                | FEB 22<br>JAN 14<br>-      | MAR 22<br>FEB 19<br>DEC 30 | APR 19<br>MAR 28<br>FEB 23 | OCT 30<br>NOV 12<br>NOV 28 | NOV 20<br>DEC 13<br>JAN 13 | DEC 11<br>JAN 17<br>-      | 276<br>354<br>>365      | 242<br>295<br>>365   | 208<br>241<br>298    | 10<br>4<br>1                    |  |
| SACRAMENTO WSO            | 36<br>32<br>28                | FEB 19<br>JAN 08<br>-      | MAR 25<br>FEB 14<br>JAN 10 | APR 28<br>MAR 23<br>FEB 15 | NOV 07<br>NOV 14<br>NOV 25 | NOV 17<br>DEC 01<br>DEC 17 | NOV 27<br>DEC 17<br>-      | 271<br>327<br>>365      | 236<br>289<br>347    | 200<br>250<br>303    | 12<br>5<br>1                    |  |
| SAINT HELENA              | 36<br>32<br>28                | APR 10<br>MAR 02<br>JAN 07 | MAY 02<br>APR 03<br>FEB 15 | MAY 23<br>MAY 05<br>MAR 26 | OCT 13<br>NOV 01<br>NOV 15 | OCT 31<br>NOV 16<br>DEC 08 | NOV 18<br>NOV 30<br>DEC 31 | 208<br>261<br>337       | 182<br>226<br>295    | 156<br>190<br>253    | 21<br>11<br>3                   |  |
| SAINT MARYS COLLEGE       | 36<br>32<br>28                | APR 17<br>FEB 24<br>JAN 09 | MAY 03<br>APR 04<br>FEB 17 | MAY 18<br>MAY 12<br>MAR 28 | OCT 11<br>OCT 28<br>NOV 11 | OCT 27<br>NOV 13<br>NOV 29 | NOV 12<br>NOV 29<br>DEC 18 | 201<br>263<br>329       | 176<br>222<br>285    | 152<br>182<br>240    | 24<br>11<br>4                   |  |
| SALT SPRINGS PWR HOUSE    | 36<br>32<br>28                | APR 30<br>APR 09<br>FEB 27 | MAY 16<br>MAY 01<br>MAR 30 | JUN 02<br>MAY 23<br>APR 30 | OCT 03<br>OCT 28<br>NOV 04 | OCT 23<br>NOV 14<br>DEC 01 | NOV 12<br>DEC 01<br>DEC 29 | 187<br>223<br>290       | 159<br>196<br>245    | 131<br>169<br>200    | 28<br>16<br>6                   |  |
| SAN BERNARDINO CO HOSP    | 36<br>32<br>28                | FEB 23<br>JAN 16<br>-      | MAR 26<br>FEB 23<br>JAN 13 | APR 26<br>MAR 30<br>FEB 22 | OCT 31<br>NOV 14<br>DEC 03 | NOV 21<br>DEC 08<br>JAN 06 | DEC 11<br>JAN 07<br>-      | 277<br>365<br>>365      | 239<br>285<br>359    | 202<br>239<br>309    | 10<br>4<br>1                    |  |
| SAN FRANCISCO WSO         | 36<br>32<br>28                | DEC 24<br>-<br>-           | FEB 07<br>JAN 08<br>-      | MAR 20<br>FEB 09<br>-      | NOV 20<br>DEC 08<br>-      | DEC 10<br>JAN 05<br>-      | JAN 01<br>-                | 362<br>365<br>>365      | 307<br>317<br>>365   | 264<br>317<br>>365   | 4<br>1<br>0                     |  |
| S F FEDERAL BLDG. WSO     | 36<br>32<br>28                | -<br>-<br>-                | -<br>-<br>-                | JAN 24<br>-<br>-           | JAN 05<br>-<br>-           | -<br>-<br>-                | -<br>-<br>-                | >365<br>>365<br>>365    | >365<br>>365<br>>365 | >365<br>>365<br>>365 | 0<br>0<br>0                     |  |
| SAN GABRIEL FIRE DEPT     | 36<br>32<br>28                | JAN 27<br>-<br>-           | MAR 03<br>JAN 25<br>-      | APR 07<br>MAR 04<br>JAN 10 | NOV 09<br>NOV 28<br>DEC 22 | DEC 02<br>DEC 26<br>-      | DEC 28<br>-                | 314<br>336<br>>365      | 272<br>290<br>>365   | 233<br>290<br>>365   | 5<br>1<br>0                     |  |
| SAN JOSE                  | 36<br>32<br>28                | JAN 24<br>-<br>-           | MAR 01<br>JAN 22<br>-      | APR 06<br>FEB 19<br>JAN 11 | NOV 10<br>NOV 23<br>DEC 20 | NOV 26<br>DEC 25<br>-      | DEC 13<br>-                | 305<br>365<br>>365      | 270<br>333<br>>365   | 234<br>299<br>349    | 6<br>2<br>0                     |  |
| SAN LUIS OBISPO POLY      | 36<br>32<br>28                | FEB 15<br>-<br>-           | MAR 28<br>JAN 25<br>-      | MAY 08<br>MAR 27<br>JAN 22 | NOV 01<br>NOV 22<br>DEC 26 | DEC 08<br>DEC 30<br>-      | JAN 15<br>-                | 312<br>365<br>>365      | 253<br>344<br>>365   | 199<br>256<br>>365   | 5<br>1<br>0                     |  |
| SAN RAFAEL                | 36<br>32<br>28                | JAN 16<br>-<br>-           | MAR 02<br>JAN 20<br>-      | APR 17<br>MAR 07<br>DEC 04 | NOV 04<br>DEC 10<br>FEB 03 | DEC 06<br>JAN 07<br>-      | JAN 08<br>-                | 333<br>365<br>>365      | 278<br>365<br>>365   | 223<br>293<br>>365   | 4<br>1<br>0                     |  |
| SANTA ANA FIRE STATION    | 36<br>32<br>28                | -<br>-<br>-                | FEB 08<br>-<br>-           | MAR 30<br>FEB 24<br>JAN 29 | NOV 23<br>DEC 15<br>-      | DEC 26<br>-                | -                          | >365<br>365<br>>365     | 323<br>365<br>>365   | 258<br>338<br>>365   | 3<br>1<br>0                     |  |
| SANTA BARBARA             | 36<br>32<br>28                | -<br>-<br>-                | FEB 11<br>-<br>-           | MAR 26<br>FEB 26<br>-      | NOV 16<br>DEC 04<br>-      | DEC 18<br>-                | -                          | >365<br>365<br>>365     | 319<br>365<br>>365   | 255<br>325<br>>365   | 2<br>0<br>0                     |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                      |                      | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|----------------------|----------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                      |                      |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                   | 90                   |                                   |  |
| CALIFORNIA                |                               |                            |                            |                            |                            |                            |                            |                         |                      |                      |                                   |  |
| SANTA BARBARA FAA AP      | 36<br>32<br>28                | JAN 27<br>-<br>-           | MAR 01<br>JAN 15<br>DEC 30 | MAR 30<br>MAR 01<br>-      | NOV 05<br>NOV 16<br>DEC 17 | NOV 26<br>DEC 22<br>-      | DEC 19<br>-<br>-           | 314<br>>365<br>>365     | 269<br>361<br>>365   | 234<br>282<br>>365   | 7<br>1<br>0                       |  |
| SANTA CRUZ                | 36<br>32<br>28                | MAR 26<br>JAN 29<br>-      | APR 27<br>MAR 08<br>JAN 18 | MAY 29<br>APR 15<br>FEB 23 | OCT 25<br>NOV 15<br>NOV 28 | NOV 09<br>DEC 07<br>DEC 26 | NOV 25<br>JAN 02<br>-      | 230<br>314<br>>365      | 196<br>272<br>353    | 161<br>234<br>293    | 15<br>4<br>1                      |  |
| SANTA MARIA WSO           | 36<br>32<br>28                | APR 05<br>JAN 29<br>-      | APR 28<br>MAR 15<br>JAN 11 | MAY 21<br>APR 28<br>FEB 25 | OCT 24<br>NOV 04<br>NOV 16 | NOV 11<br>DEC 05<br>DEC 28 | NOV 30<br>JAN 05<br>-      | 224<br>320<br>>365      | 196<br>265<br>>365   | 169<br>209<br>281    | 14<br>5<br>1                      |  |
| SANTA MONICA PIER         | 36<br>32<br>28                | -<br>-<br>-                | -<br>-<br>-                | JAN 05<br>-<br>-           | JAN 18<br>-<br>-           | -<br>-<br>-                | -<br>-<br>-                | >365<br>>365<br>>365    | >365<br>>365<br>>365 | >365<br>>365<br>>365 | 0<br>0<br>0                       |  |
| SANTA PAULA               | 36<br>32<br>28                | FEB 23<br>DEC 17<br>-      | MAR 31<br>FEB 14<br>DEC 08 | MAY 05<br>APR 13<br>FEB 19 | NOV 02<br>NOV 14<br>DEC 09 | NOV 21<br>DEC 08<br>-      | DEC 13<br>JAN 03<br>-      | 280<br>>365<br>>365     | 233<br>289<br>>365   | 190<br>237<br>317    | 8<br>2<br>0                       |  |
| SANTA ROSA                | 36<br>32<br>28                | APR 10<br>FEB 19<br>DEC 29 | APR 27<br>MAR 26<br>FEB 06 | MAY 14<br>MAY 01<br>MAR 13 | OCT 21<br>NOV 05<br>NOV 18 | NOV 03<br>NOV 19<br>DEC 11 | NOV 15<br>DEC 02<br>JAN 05 | 210<br>276<br>361       | 189<br>236<br>309    | 168<br>197<br>268    | 21<br>10<br>3                     |  |
| SCOTIA                    | 36<br>32<br>28                | MAR 16<br>JAN 12<br>-      | APR 07<br>FEB 23<br>DEC 20 | APR 30<br>APR 02<br>FEB 06 | OCT 28<br>NOV 09<br>NOV 27 | NOV 17<br>DEC 09<br>JAN 20 | DEC 07<br>JAN 11<br>-      | 254<br>>365<br>>365     | 223<br>288<br>>365   | 192<br>237<br>320    | 11<br>4<br>1                      |  |
| SHASTA DAM                | 36<br>32<br>28                | FEB 28<br>JAN 14<br>-      | MAR 30<br>FEB 24<br>-      | APR 29<br>APR 06<br>FEB 03 | NOV 08<br>NOV 17<br>DEC 31 | NOV 28<br>DEC 22<br>-      | DEC 17<br>JAN 30<br>-      | 282<br>357<br>>365      | 242<br>298<br>>365   | 201<br>252<br>>365   | 9<br>3<br>0                       |  |
| SIERRAVILLE RANGER STA    | 36<br>32<br>28                | JUN 27<br>MAY 28<br>MAY 06 | JUL 16<br>JUN 21<br>MAY 28 | AUG 03<br>JUL 15<br>JUN 19 | JUL 30<br>AUG 08<br>AUG 25 | AUG 12<br>AUG 28<br>SEP 16 | AUG 26<br>SEP 17<br>OCT 08 | 51<br>100<br>141        | 27<br>67<br>110      | 2<br>34<br>80        | 69<br>57<br>44                    |  |
| SONORA RS                 | 36<br>32<br>28                | APR 21<br>MAR 19<br>FEB 16 | MAY 12<br>APR 14<br>MAR 22 | JUN 01<br>MAY 10<br>APR 25 | OCT 08<br>OCT 26<br>NOV 07 | OCT 27<br>NOV 12<br>NOV 26 | NOV 15<br>NOV 29<br>DEC 15 | 197<br>245<br>294       | 168<br>211<br>249    | 139<br>177<br>203    | 30<br>18<br>7                     |  |
| SO ENTRANCE YOSEMITE      | 36<br>32<br>28                | MAY 28<br>MAY 13<br>APR 27 | JUN 14<br>JUN 02<br>MAY 15 | JUL 01<br>JUN 22<br>JUN 02 | AUG 28<br>SEP 08<br>SEP 27 | SEP 16<br>SEP 28<br>OCT 20 | OCT 04<br>OCT 19<br>NOV 13 | 115<br>144<br>185       | 93<br>117<br>158     | 70<br>91<br>131      | 55<br>43<br>26                    |  |
| STOCKTON FIRE STA NO 4    | 36<br>32<br>28                | MAR 09<br>JAN 31<br>DEC 18 | APR 06<br>MAR 01<br>JAN 27 | MAY 04<br>MAR 30<br>MAR 04 | OCT 21<br>NOV 05<br>NOV 14 | NOV 06<br>NOV 22<br>DEC 10 | NOV 22<br>DEC 09<br>JAN 08 | 248<br>301<br>>365      | 214<br>265<br>315    | 180<br>229<br>280    | 16<br>7<br>3                      |  |
| STONY GORGE RESERVOIR     | 36<br>32<br>28                | APR 15<br>MAR 15<br>JAN 20 | MAY 01<br>APR 09<br>MAR 03 | MAY 17<br>MAY 04<br>APR 14 | OCT 14<br>OCT 30<br>NOV 10 | OCT 31<br>NOV 14<br>NOV 29 | NOV 16<br>NOV 28<br>DEC 18 | 205<br>251<br>315       | 182<br>218<br>270    | 159<br>185<br>225    | 24<br>14<br>5                     |  |
| STRAWBERRY VALLEY         | 36<br>32<br>28                | MAY 12<br>APR 29<br>MAR 30 | JUN 01<br>MAY 17<br>APR 25 | JUN 22<br>JUN 04<br>MAY 22 | SEP 09<br>OCT 04<br>OCT 25 | OCT 04<br>OCT 27<br>NOV 13 | OCT 30<br>NOV 19<br>DEC 02 | 154<br>197<br>236       | 124<br>163<br>201    | 95<br>128<br>166     | 43<br>29<br>14                    |  |
| SUSANVILLE AIRPORT        | 36<br>32<br>28                | JUN 04<br>MAY 12<br>APR 28 | JUN 22<br>JUN 04<br>MAY 15 | JUL 11<br>JUN 26<br>JUN 01 | AUG 13<br>AUG 31<br>SEP 15 | AUG 30<br>SEP 18<br>OCT 01 | SEP 15<br>OCT 05<br>OCT 17 | 94<br>135<br>161        | 68<br>105<br>138     | 41<br>75<br>116      | 57<br>46<br>34                    |  |
| TAHOE CITY                | 36<br>32<br>28                | JUN 21<br>JUN 03<br>MAY 11 | JUL 05<br>JUN 17<br>MAY 28 | JUL 19<br>JUN 30<br>JUN 14 | AUG 04<br>AUG 22<br>SEP 12 | AUG 25<br>SEP 15<br>OCT 02 | SEP 15<br>OCT 09<br>OCT 22 | 77<br>114<br>150        | 50<br>89<br>126      | 23<br>64<br>102      | 69<br>58<br>43                    |  |
| TEHACHAPI                 | 36<br>32<br>28                | MAY 03<br>APR 21<br>MAR 16 | MAY 21<br>MAY 08<br>APR 09 | JUN 08<br>MAY 24<br>MAY 03 | SEP 21<br>OCT 06<br>OCT 17 | OCT 06<br>OCT 19<br>NOV 04 | OCT 21<br>NOV 01<br>NOV 21 | 164<br>185<br>239       | 137<br>163<br>208    | 109<br>142<br>177    | 40<br>27<br>14                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)  |  |                            | FREEZE FREE PERIOD                      |                      |                      | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|--|--|----------------------------|---|----------------------|----------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *  |  |                            | PROBABILITY LEVEL (3) *                 |                      |                      |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10   | 50   | 90                         | 10                                      | 50                   | 90                   |                                   |  |
| CALIFORNIA                |                               |                            |                            |                            |  |  |                            |   |                      |                      |                                   |  |
| TEJON RANCHO              | 36<br>32<br>28                | FEB 25<br>JAN 21<br>DEC 09 | MAR 28<br>FEB 24<br>JAN 18 | APR 28<br>MAR 29<br>FEB 18 | OCT 30<br>NOV 16<br>DEC 03<br>NOV 20<br>DEC 07<br>DEC 25<br>NOV 21<br>DEC 22 | NOV 16<br>DEC 07<br>DEC 25<br>NOV 20<br>JAN 05 | DEC 03<br>DEC 25<br>-      | 266<br>326<br>>365<br>285<br>329<br>291 | 232<br>245<br>329    | 198<br>245<br>291    | 14<br>6<br>2                      |  |
| THERMAL FAA AIRPORT       | 36<br>32<br>28                | FEB 08<br>JAN 13<br>-      | MAR 01<br>FEB 10<br>JAN 17 | MAR 22<br>MAR 10<br>FEB 18 | NOV 05<br>NOV 12<br>NOV 26   | NOV 20<br>DEC 09<br>DEC 27                     | DEC 04<br>JAN 05           | 289<br>338<br>>365                      | 263<br>301<br>343    | 237<br>264<br>300    | 10<br>4<br>1                      |  |
| TIGER CREEK PH            | 36<br>32<br>28                | APR 26<br>APR 05<br>FEB 05 | MAY 13<br>APR 26<br>MAR 14 | MAY 31<br>MAY 18<br>APR 19 | OCT 05<br>OCT 23<br>NOV 05   | OCT 22<br>NOV 06<br>NOV 28                     | NOV 09<br>NOV 20<br>DEC 20 | 187<br>220<br>304                       | 161<br>193<br>258    | 135<br>166<br>212    | 31<br>17<br>5                     |  |
| TORRANCE                  | 36<br>32<br>28                | -<br>-<br>-                | FEB 03<br>-<br>-           | MAR 24<br>FEB 11<br>-      | NOV 25<br>DEC 08<br>-  | DEC 21<br>-                                    | -                          | >365<br>>365<br>>365                    | 321<br>>365<br>>365  | 261<br>0<br>0        | 2<br>0<br>0                       |  |
| TRACY CARBONA             | 36<br>32<br>28                | FEB 18<br>JAN 23<br>DEC 24 | MAR 25<br>FEB 20<br>JAN 22 | APR 29<br>MAR 21<br>FEB 16 | NOV 06<br>NOV 12<br>NOV 20   | NOV 17<br>NOV 28<br>DEC 15                     | NOV 29<br>DEC 14<br>JAN 11 | 274<br>316<br>>365                      | 237<br>280<br>326    | 199<br>244<br>294    | 14<br>6<br>2                      |  |
| TRONA                     | 36<br>32<br>28                | MAR 01<br>FEB 12<br>JAN 08 | MAR 30<br>MAR 12<br>FEB 17 | APR 28<br>APR 09<br>MAR 25 | OCT 26<br>NOV 08<br>NOV 15   | NOV 11<br>NOV 19<br>NOV 29                     | NOV 26<br>NOV 30<br>DEC 15 | 260<br>282<br>336                       | 225<br>251<br>286    | 190<br>221<br>247    | 22<br>14<br>7                     |  |
| TRUCKEE RANGER STATION    | 36<br>32<br>28                | JUL 13<br>JUN 24<br>MAY 30 | JUL 23<br>JUL 11<br>JUN 17 | AUG 01<br>JUL 27<br>JUL 05 | JUL 30<br>JUL 31<br>AUG 18   | AUG 07<br>AUG 16<br>SEP 08                     | AUG 17<br>SEP 02<br>SEP 29 | 30<br>60<br>113                         | 15<br>36<br>82       | 0<br>12<br>51        | 79<br>68<br>53                    |  |
| TULELAKE                  | 36<br>32<br>28                | JUN 23<br>JUN 04<br>MAY 07 | JUL 09<br>JUN 20<br>MAY 26 | JUL 26<br>JUL 06<br>JUN 13 | AUG 05<br>AUG 14<br>SEP 01   | AUG 18<br>SEP 04<br>SEP 20                     | AUG 30<br>SEP 25<br>OCT 10 | 60<br>104<br>144                        | 38<br>75<br>117      | 17<br>47<br>90       | 66<br>54<br>40                    |  |
| TUSTIN IRVINE RANCH       | 36<br>32<br>28                | FEB 15<br>DEC 25<br>-      | MAR 21<br>FEB 15<br>NOV 25 | APR 22<br>MAR 27<br>FEB 01 | NOV 08<br>NOV 17<br>DEC 08   | NOV 25<br>DEC 19<br>-                          | DEC 14                     | 294<br>>365<br>>365                     | 248<br>306<br>>365   | 212<br>248<br>357    | 8<br>2<br>0                       |  |
| TWENTYNINE PALMS          | 36<br>32<br>28                | MAR 02<br>FEB 14<br>JAN 04 | APR 01<br>MAR 12<br>FEB 17 | APR 30<br>APR 06<br>MAR 24 | OCT 28<br>NOV 03<br>NOV 13   | NOV 12<br>NOV 21<br>DEC 09                     | NOV 27<br>DEC 08<br>-      | 261<br>287<br>>365                      | 225<br>253<br>297    | 188<br>220<br>249    | 17<br>9<br>3                      |  |
| TWIN LAKES                | 36<br>32<br>28                | JUN 30<br>JUN 13<br>JUN 03 | JUL 15<br>JUL 02<br>JUN 20 | JUL 30<br>JUL 21<br>JUL 08 | JUL 31<br>AUG 04<br>AUG 25   | AUG 14<br>AUG 28<br>SEP 19                     | AUG 27<br>SEP 21<br>OCT 13 | 50<br>88<br>120                         | 29<br>56<br>90       | 7<br>24<br>60        | 73<br>64<br>52                    |  |
| UKIAH                     | 36<br>32<br>28                | APR 11<br>MAR 09<br>JAN 12 | APR 29<br>APR 03<br>FEB 13 | MAY 17<br>APR 29<br>MAR 17 | OCT 12<br>OCT 25<br>NOV 10   | OCT 29<br>NOV 10<br>DEC 02                     | NOV 14<br>NOV 27<br>DEC 23 | 204<br>251<br>331                       | 182<br>220<br>291    | 160<br>190<br>250    | 22<br>11<br>4                     |  |
| U C L A                   | 36<br>32<br>28                | -<br>-<br>-                | -<br>-<br>-                | JAN 03                     | JAN 02   | -<br>-   | -                          | >365<br>>365<br>>365                    | >365<br>>365<br>>365 | >365<br>>365<br>>365 | 0<br>0<br>0                       |  |
| UPLAND 3 N                | 36<br>32<br>28                | MAR 07<br>-<br>-           | APR 10<br>FEB 24<br>-      | MAY 14<br>APR 14<br>JAN 15 | OCT 29<br>NOV 21<br>DEC 20   | NOV 27<br>DEC 16<br>-                          | DEC 26                     | 276<br>296<br>>365                      | 230<br>242<br>>365   | 183<br>242<br>>365   | 9<br>3<br>0                       |  |
| VACAVILLE                 | 36<br>32<br>28                | MAR 24<br>FEB 11<br>DEC 22 | APR 20<br>MAR 19<br>JAN 23 | MAY 16<br>APR 24<br>FEB 24 | OCT 22<br>NOV 04<br>NOV 16   | NOV 06<br>NOV 18<br>DEC 10                     | NOV 22<br>DEC 02<br>JAN 03 | 232<br>280<br>354                       | 200<br>243<br>319    | 168<br>207<br>286    | 18<br>9<br>3                      |  |
| VICTORVILLE PUMP PLANT    | 36<br>32<br>28                | APR 16<br>MAR 25<br>FEB 16 | APR 30<br>APR 13<br>MAR 16 | MAY 15<br>MAY 02<br>APR 12 | OCT 09<br>OCT 20<br>OCT 30   | OCT 24<br>NOV 05<br>NOV 13                     | NOV 08<br>NOV 20<br>NOV 26 | 197<br>232<br>275                       | 176<br>205<br>241    | 155<br>178<br>208    | 32<br>22<br>13                    |  |
| VISALIA                   | 36<br>32<br>28                | FEB 19<br>JAN 17<br>-      | MAR 19<br>FEB 16<br>JAN 15 | APR 17<br>MAR 17<br>FEB 18 | NOV 01<br>NOV 08<br>DEC 01   | NOV 15<br>NOV 29<br>DEC 28                     | NOV 29<br>DEC 19<br>-      | 273<br>322<br>>365                      | 240<br>285<br>355    | 207<br>249<br>302    | 13<br>5<br>1                      |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                    |                    | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|--------------------|--------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                    |                    |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                 | 90                 |                                   |  |
| CALIFORNIA                |                               |                            |                            |                            |                            |                            |                            |                         |                    |                    |                                   |  |
| WASCO                     | 36<br>32<br>28                | FEB 21<br>JAN 21<br>DEC 11 | MAR 17<br>FEB 18<br>JAN 21 | APR 11<br>MAR 17<br>FEB 22 | OCT 28<br>NOV 04<br>NOV 20 | NOV 12<br>NOV 23<br>DEC 14 | NOV 27<br>DEC 12<br>JAN 15 | 270<br>313<br>>365      | 239<br>277<br>328  | 207<br>242<br>290  | 17<br>8<br>3                      |  |
| WATSONVILLE WATERWORKS    | 36<br>32<br>28                | MAR 08<br>JAN 11<br>-      | APR 10<br>FEB 23<br>JAN 06 | MAY 13<br>APR 06<br>FEB 16 | OCT 28<br>NOV 11<br>DEC 02 | NOV 14<br>NOV 29<br>JAN 09 | NOV 30<br>DEC 17           | 253<br>326<br>>365      | 217<br>279<br>>365 | 181<br>232<br>310  | 13<br>4<br>1                      |  |
| HEAVERVILLE RANGER STA    | 36<br>32<br>28                | MAY 26<br>MAY 05<br>APR 17 | JUN 18<br>MAY 28<br>MAY 07 | JUL 10<br>JUN 19<br>MAY 28 | AUG 22<br>SEP 13<br>SEP 21 | SEP 10<br>OCT 01<br>OCT 10 | SEP 30<br>OCT 18<br>OCT 29 | 115<br>154<br>185       | 84<br>126<br>155   | 53<br>97<br>125    | 52<br>38<br>23                    |  |
| WILLOWS                   | 36<br>32<br>28                | MAR 28<br>FEB 01<br>DEC 26 | APR 19<br>MAR 14<br>FEB 02 | MAY 10<br>APR 23<br>MAR 13 | OCT 24<br>NOV 08<br>NOV 20 | NOV 09<br>NOV 23<br>DEC 11 | NOV 25<br>DEC 09<br>DEC 31 | 234<br>295<br>347       | 204<br>254<br>311  | 174<br>213<br>274  | 18<br>9<br>3                      |  |
| WINTERS                   | 36<br>32<br>28                | FEB 24<br>JAN 10<br>-      | MAR 27<br>FEB 17<br>JAN 14 | APR 27<br>MAR 27<br>FEB 11 | OCT 28<br>NOV 13<br>NOV 23 | NOV 11<br>NOV 27<br>DEC 15 | NOV 25<br>DEC 11           | 266<br>323<br>>365      | 229<br>282<br>337  | 191<br>240<br>303  | 14<br>6<br>2                      |  |
| WOODFORDS                 | 36<br>32<br>28                | MAY 24<br>MAY 09<br>APR 25 | JUN 12<br>MAY 28<br>MAY 15 | JUL 01<br>JUN 16<br>JUN 03 | AUG 22<br>SEP 09<br>SEP 23 | SEP 14<br>SEP 30<br>OCT 14 | OCT 08<br>OCT 21<br>NOV 04 | 129<br>149<br>180       | 94<br>125<br>152   | 59<br>100<br>124   | 51<br>40<br>29                    |  |
| WOODLAND 1 WNW            | 36<br>32<br>28                | MAR 14<br>JAN 27<br>-      | APR 07<br>FEB 28<br>JAN 16 | MAY 02<br>APR 01<br>FEB 16 | OCT 31<br>NOV 05<br>NOV 24 | NOV 14<br>NOV 26<br>DEC 16 | NOV 27<br>DEC 17           | 250<br>305<br>>365      | 220<br>271<br>331  | 190<br>236<br>296  | 15<br>6<br>2                      |  |
| YORBA LINDA               | 36<br>32<br>28                | FEB 12<br>-<br>-           | MAR 21<br>FEB 05<br>-      | APR 25<br>MAR 19<br>JAN 31 | NOV 09<br>NOV 17<br>DEC 23 | DEC 03<br>DEC 29<br>-      | JAN 03<br>-                | >365<br>>365<br>>365    | 255<br>329<br>>365 | 214<br>270<br>>365 | 6<br>1<br>0                       |  |
| YOSEMETTE PARK HEADQTRS   | 36<br>32<br>28                | MAY 10<br>APR 25<br>MAR 28 | MAY 29<br>MAY 14<br>APR 18 | JUN 17<br>JUN 02<br>MAY 08 | SEP 11<br>SEP 24<br>OCT 17 | OCT 01<br>OCT 16<br>NOV 02 | OCT 21<br>NOV 07<br>NOV 19 | 155<br>183<br>224       | 124<br>154<br>198  | 93<br>126<br>172   | 49<br>38<br>22                    |  |
| YREKA                     | 36<br>32<br>28                | MAY 14<br>APR 29<br>APR 06 | JUN 03<br>MAY 15<br>APR 26 | JUN 22<br>MAY 31<br>MAY 15 | SEP 14<br>SEP 25<br>OCT 14 | SEP 29<br>OCT 10<br>OCT 29 | OCT 14<br>OCT 24<br>NOV 13 | 144<br>168<br>209       | 117<br>147<br>185  | 91<br>125<br>162   | 50<br>37<br>23                    |  |
| COLORADO                  |                               |                            |                            |                            |                            |                            |                            |                         |                    |                    |                                   |  |
| AKRON FAA AIRPORT         | 36<br>32<br>28                | MAY 04<br>APR 30<br>APR 12 | MAY 19<br>MAY 12<br>APR 28 | JUN 03<br>MAY 24<br>MAY 14 | SEP 08<br>SEP 17<br>SEP 28 | SEP 23<br>OCT 01<br>OCT 13 | OCT 07<br>OCT 14<br>OCT 28 | 146<br>160<br>191       | 126<br>141<br>167  | 106<br>122<br>144  | 53<br>46<br>38                    |  |
| ALAMOSA WSO               | 36<br>32<br>28                | JUN 08<br>MAY 24<br>MAY 09 | JUN 21<br>JUN 07<br>MAY 25 | JUL 04<br>JUN 22<br>JUN 09 | AUG 12<br>AUG 26<br>SEP 08 | AUG 26<br>SEP 08<br>SEP 20 | SEP 08<br>SEP 20<br>OCT 01 | 83<br>112<br>137        | 65<br>92<br>118    | 47<br>71<br>98     | 70<br>62<br>55                    |  |
| ALLENSPARK                | 36<br>32<br>28                | JUN 18<br>MAY 29<br>MAY 13 | JUL 06<br>JUN 16<br>MAY 26 | JUL 24<br>JUL 05<br>JUN 08 | AUG 04<br>AUG 24<br>SEP 04 | AUG 23<br>SEP 05<br>SEP 18 | SEP 10<br>SEP 18<br>OCT 02 | 71<br>102<br>131        | 47<br>80<br>114    | 22<br>58<br>96     | 68<br>59<br>48                    |  |
| ASPEN                     | 36<br>32<br>28                | JUN 08<br>MAY 28<br>MAY 09 | JUN 28<br>JUN 14<br>MAY 29 | JUL 18<br>JUN 30<br>JUN 18 | AUG 12<br>AUG 19<br>SEP 05 | AUG 26<br>SEP 07<br>SEP 21 | SEP 09<br>SEP 25<br>OCT 07 | 83<br>110<br>143        | 58<br>84<br>114    | 34<br>59<br>85     | 71<br>61<br>52                    |  |
| BAILEY                    | 36<br>32<br>28                | JUN 21<br>JUN 04<br>MAY 21 | JUL 06<br>JUN 19<br>JUN 05 | JUL 21<br>JUL 05<br>JUN 20 | AUG 04<br>AUG 15<br>AUG 28 | AUG 20<br>SEP 02<br>SEP 11 | SEP 05<br>SEP 20<br>SEP 26 | 69<br>101<br>120        | 45<br>74<br>97     | 20<br>47<br>75     | 75<br>66<br>57                    |  |
| BONNY DAM                 | 36<br>32<br>28                | MAY 02<br>APR 21<br>APR 10 | MAY 15<br>MAY 05<br>APR 25 | MAY 28<br>MAY 19<br>MAY 10 | SEP 14<br>SEP 20<br>OCT 08 | SEP 28<br>OCT 05<br>OCT 19 | OCT 12<br>OCT 21<br>OCT 29 | 154<br>176<br>196       | 135<br>153<br>176  | 116<br>129<br>156  | 52<br>46<br>38                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| COLORADO                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| BOULDER                   | 36                            | MAY 04                  | MAY 18 | MAY 31 | SEP 12                  | SEP 29 | OCT 16 | 155                     | 133 | 111 | 45                                |  |
|                           | 32                            | APR 18                  | MAY 03 | MAY 17 | SEP 20                  | OCT 08 | OCT 26 | 182                     | 158 | 133 | 37                                |  |
|                           | 28                            | APR 03                  | APR 20 | MAY 07 | OCT 04                  | OCT 21 | NOV 06 | 200                     | 183 | 165 | 28                                |  |
| BUENA VISTA               | 36                            | JUN 01                  | JUN 16 | JUL 01 | AUG 25                  | SEP 06 | SEP 18 | 101                     | 81  | 62  | 66                                |  |
|                           | 32                            | MAY 21                  | JUN 03 | JUN 15 | AUG 31                  | SEP 14 | SEP 29 | 120                     | 103 | 86  | 58                                |  |
|                           | 28                            | MAY 06                  | MAY 19 | MAY 31 | SEP 09                  | SEP 27 | OCT 15 | 152                     | 131 | 109 | 49                                |  |
| BURLINGTON                | 36                            | MAY 01                  | MAY 14 | MAY 27 | SEP 12                  | SEP 27 | OCT 12 | 157                     | 135 | 113 | 50                                |  |
|                           | 32                            | APR 21                  | MAY 04 | MAY 17 | SEP 17                  | OCT 06 | OCT 24 | 179                     | 154 | 129 | 42                                |  |
|                           | 28                            | APR 07                  | APR 22 | MAY 07 | OCT 08                  | OCT 21 | NOV 03 | 204                     | 182 | 160 | 34                                |  |
| BYERS 5 NE                | 36                            | MAY 13                  | MAY 29 | JUN 15 | SEP 04                  | SEP 20 | OCT 05 | 137                     | 112 | 88  | 55                                |  |
|                           | 32                            | MAY 02                  | MAY 15 | MAY 28 | SEP 12                  | SEP 27 | OCT 12 | 155                     | 134 | 113 | 49                                |  |
|                           | 28                            | APR 21                  | MAY 03 | MAY 16 | SEP 19                  | OCT 07 | OCT 25 | 179                     | 156 | 133 | 41                                |  |
| CANON CITY                | 36                            | APR 26                  | MAY 15 | JUN 02 | SEP 12                  | SEP 30 | OCT 18 | 158                     | 138 | 117 | 42                                |  |
|                           | 32                            | APR 11                  | MAY 03 | MAY 25 | SEP 25                  | OCT 12 | OCT 29 | 190                     | 161 | 133 | 34                                |  |
|                           | 28                            | MAR 29                  | APR 17 | MAY 06 | OCT 07                  | OCT 23 | NOV 08 | 218                     | 188 | 159 | 25                                |  |
| CEDAREDDGE                | 36                            | MAY 14                  | MAY 30 | JUN 15 | SEP 12                  | SEP 25 | OCT 09 | 139                     | 117 | 95  | 53                                |  |
|                           | 32                            | APR 30                  | MAY 17 | JUN 03 | SEP 19                  | OCT 05 | OCT 21 | 164                     | 140 | 116 | 45                                |  |
|                           | 28                            | APR 12                  | APR 27 | MAY 13 | SEP 29                  | OCT 15 | OCT 31 | 190                     | 170 | 150 | 35                                |  |
| CENTER 4 SSW              | 36                            | JUN 08                  | JUN 23 | JUL 09 | AUG 08                  | AUG 25 | SEP 11 | 83                      | 62  | 41  | 71                                |  |
|                           | 32                            | MAY 25                  | JUN 10 | JUN 25 | AUG 24                  | SEP 06 | SEP 20 | 111                     | 88  | 66  | 63                                |  |
|                           | 28                            | MAY 09                  | MAY 24 | JUN 08 | SEP 09                  | SEP 23 | OCT 06 | 143                     | 120 | 98  | 55                                |  |
| CHEESEMAN                 | 36                            | MAY 26                  | JUN 12 | JUN 30 | AUG 19                  | SEP 05 | SEP 22 | 112                     | 84  | 56  | 66                                |  |
|                           | 32                            | MAY 18                  | JUN 02 | JUN 17 | SEP 02                  | SEP 17 | OCT 01 | 133                     | 106 | 80  | 58                                |  |
|                           | 28                            | MAY 02                  | MAY 19 | JUN 06 | SEP 13                  | SEP 27 | OCT 10 | 157                     | 130 | 102 | 50                                |  |
| CHERRY CREEK DAM          | 36                            | MAY 13                  | MAY 27 | JUN 11 | SEP 05                  | SEP 18 | OCT 01 | 131                     | 113 | 94  | 55                                |  |
|                           | 32                            | APR 30                  | MAY 17 | JUN 02 | SEP 13                  | SEP 29 | OCT 15 | 161                     | 135 | 109 | 48                                |  |
|                           | 28                            | APR 20                  | MAY 03 | MAY 17 | SEP 24                  | OCT 08 | OCT 23 | 180                     | 157 | 134 | 39                                |  |
| CHEYENNE WELLS            | 36                            | MAY 03                  | MAY 15 | MAY 27 | SEP 11                  | SEP 23 | OCT 05 | 148                     | 130 | 112 | 51                                |  |
|                           | 32                            | APR 23                  | MAY 05 | MAY 17 | SEP 16                  | OCT 02 | OCT 17 | 172                     | 149 | 127 | 45                                |  |
|                           | 28                            | APR 14                  | APR 26 | MAY 09 | OCT 02                  | OCT 17 | NOV 01 | 192                     | 173 | 153 | 36                                |  |
| COCHETOPA CREEK           | 36                            | JUL 03                  | JUL 17 | AUG 01 | JUL 30                  | AUG 12 | AUG 26 | 47                      | 25  | 2   | 81                                |  |
|                           | 32                            | JUN 14                  | JUN 27 | JUL 11 | AUG 09                  | AUG 23 | SEP 06 | 78                      | 56  | 33  | 72                                |  |
|                           | 28                            | MAY 30                  | JUN 12 | JUN 25 | AUG 21                  | SEP 06 | SEP 21 | 107                     | 85  | 62  | 64                                |  |
| COLORADO NAT MON          | 36                            | APR 30                  | MAY 16 | JUN 02 | SEP 19                  | OCT 09 | OCT 28 | 172                     | 144 | 117 | 45                                |  |
|                           | 32                            | APR 20                  | MAY 04 | MAY 19 | OCT 01                  | OCT 17 | NOV 03 | 191                     | 165 | 140 | 38                                |  |
|                           | 28                            | APR 03                  | APR 22 | MAY 12 | OCT 12                  | OCT 28 | NOV 13 | 217                     | 188 | 159 | 30                                |  |
| CORTEZ                    | 36                            | MAY 22                  | JUN 07 | JUN 23 | SEP 02                  | SEP 18 | OCT 04 | 125                     | 103 | 80  | 57                                |  |
|                           | 32                            | MAY 07                  | MAY 22 | JUN 06 | SEP 15                  | OCT 01 | OCT 16 | 154                     | 131 | 108 | 49                                |  |
|                           | 28                            | APR 17                  | MAY 06 | MAY 25 | SEP 28                  | OCT 15 | NOV 01 | 185                     | 161 | 137 | 39                                |  |
| CRESTED BUTTE             | 36                            | JUL 07                  | JUL 20 | AUG 03 | JUL 29                  | AUG 09 | AUG 21 | 40                      | 19  | 0   | 84                                |  |
|                           | 32                            | JUN 19                  | JUL 07 | JUL 25 | AUG 01                  | AUG 18 | SEP 03 | 67                      | 40  | 14  | 74                                |  |
|                           | 28                            | MAY 25                  | JUN 11 | JUN 28 | AUG 19                  | SEP 02 | SEP 16 | 105                     | 82  | 59  | 63                                |  |
| DEL NORTE                 | 36                            | MAY 31                  | JUN 15 | JUN 30 | AUG 29                  | SEP 11 | SEP 24 | 109                     | 87  | 66  | 65                                |  |
|                           | 32                            | MAY 16                  | MAY 30 | JUN 13 | SEP 07                  | SEP 22 | OCT 07 | 135                     | 114 | 92  | 56                                |  |
|                           | 28                            | APR 30                  | MAY 15 | MAY 31 | SEP 21                  | OCT 06 | OCT 20 | 166                     | 143 | 119 | 48                                |  |
| DENVER WSFO               | 36                            | MAY 03                  | MAY 17 | JUN 01 | SEP 10                  | SEP 26 | OCT 11 | 152                     | 130 | 109 | 51                                |  |
|                           | 32                            | APR 17                  | MAY 03 | MAY 20 | SEP 20                  | OCT 08 | OCT 26 | 183                     | 157 | 131 | 43                                |  |
|                           | 28                            | APR 09                  | APR 23 | MAY 08 | OCT 08                  | OCT 22 | NOV 04 | 199                     | 181 | 163 | 34                                |  |
| DILLON 1 E                | 36                            | JUL 23                  | JUL 28 | AUG 02 | JUL 28                  | AUG 06 | AUG 17 | 22                      | 9   | 0   | 89                                |  |
|                           | 32                            | JUN 28                  | JUL 15 | AUG 01 | JUL 27                  | AUG 13 | AUG 30 | 56                      | 28  | 0   | 79                                |  |
|                           | 28                            | JUN 07                  | JUN 23 | JUL 10 | AUG 07                  | AUG 26 | SEP 15 | 94                      | 63  | 33  | 69                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|-----|-----|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |     |     |                                   |  |
|                           |                               | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50  | 90  |                                   |  |
| COLORADO                  |                               |                            |        |        |                            |        |        |                            |     |     |                                   |  |
| DURANGO                   | 36                            | JUN 06                     | JUN 18 | JUL 01 | AUG 24                     | SEP 09 | SEP 24 | 102                        | 82  | 62  | 66                                |  |
|                           | 32                            | MAY 19                     | JUN 04 | JUN 21 | SEP 06                     | SEP 18 | OCT 01 | 129                        | 105 | 82  | 57                                |  |
|                           | 28                            | MAY 07                     | MAY 19 | MAY 31 | SEP 18                     | OCT 02 | OCT 15 | 154                        | 135 | 116 | 47                                |  |
| EADS                      | 36                            | MAY 01                     | MAY 15 | MAY 28 | SEP 13                     | SEP 28 | OCT 13 | 155                        | 135 | 116 | 50                                |  |
|                           | 32                            | APR 22                     | MAY 02 | MAY 12 | SEP 22                     | OCT 06 | OCT 21 | 178                        | 157 | 135 | 44                                |  |
|                           | 28                            | APR 06                     | APR 20 | MAY 03 | OCT 05                     | OCT 19 | NOV 03 | 200                        | 182 | 164 | 37                                |  |
| EAGLE FAA AP              | 36                            | JUN 17                     | JUL 02 | JUL 17 | AUG 08                     | AUG 21 | SEP 04 | 71                         | 50  | 28  | 72                                |  |
|                           | 32                            | JUN 02                     | JUN 17 | JUL 02 | AUG 22                     | SEP 04 | SEP 17 | 103                        | 78  | 54  | 63                                |  |
|                           | 28                            | MAY 15                     | MAY 27 | JUN 08 | AUG 31                     | SEP 15 | SEP 29 | 130                        | 110 | 90  | 54                                |  |
| ESTES PARK                | 36                            | JUN 10                     | JUN 30 | JUL 19 | AUG 11                     | AUG 26 | SEP 10 | 81                         | 56  | 32  | 65                                |  |
|                           | 32                            | MAY 22                     | JUN 04 | JUN 18 | AUG 26                     | SEP 08 | SEP 20 | 113                        | 94  | 76  | 54                                |  |
|                           | 28                            | MAY 07                     | MAY 21 | JUN 04 | SEP 08                     | SEP 20 | OCT 03 | 140                        | 121 | 102 | 43                                |  |
| FORT COLLINS              | 36                            | MAY 04                     | MAY 17 | MAY 30 | SEP 09                     | SEP 22 | OCT 05 | 146                        | 127 | 108 | 53                                |  |
|                           | 32                            | APR 25                     | MAY 07 | MAY 18 | SEP 17                     | OCT 01 | OCT 15 | 167                        | 147 | 126 | 46                                |  |
|                           | 28                            | APR 11                     | APR 25 | MAY 09 | SEP 26                     | OCT 11 | OCT 27 | 187                        | 168 | 150 | 38                                |  |
| FORT LEWIS                | 36                            | JUN 12                     | JUN 23 | JUL 04 | AUG 14                     | SEP 04 | SEP 24 | 95                         | 72  | 48  | 67                                |  |
|                           | 32                            | JUN 03                     | JUN 16 | JUN 28 | AUG 28                     | SEP 15 | OCT 03 | 110                        | 91  | 71  | 59                                |  |
|                           | 28                            | MAY 14                     | JUN 01 | JUN 19 | SEP 07                     | SEP 29 | OCT 21 | 150                        | 119 | 89  | 50                                |  |
| FORT MORGAN               | 36                            | MAY 03                     | MAY 15 | MAY 27 | SEP 13                     | SEP 24 | OCT 05 | 147                        | 132 | 116 | 53                                |  |
|                           | 32                            | APR 23                     | MAY 04 | MAY 15 | SEP 18                     | OCT 02 | OCT 17 | 170                        | 150 | 130 | 47                                |  |
|                           | 28                            | APR 07                     | APR 23 | MAY 08 | SEP 30                     | OCT 15 | OCT 30 | 197                        | 175 | 153 | 40                                |  |
| FRUITA                    | 36                            | MAY 08                     | MAY 25 | JUN 10 | SEP 07                     | SEP 19 | OCT 01 | 136                        | 117 | 98  | 55                                |  |
|                           | 32                            | APR 26                     | MAY 14 | JUN 01 | SEP 16                     | SEP 30 | OCT 15 | 160                        | 139 | 117 | 48                                |  |
|                           | 28                            | APR 12                     | APR 30 | MAY 17 | SEP 27                     | OCT 13 | OCT 29 | 189                        | 166 | 142 | 39                                |  |
| GLENWOOD SPRINGS 1 N      | 36                            | MAY 18                     | JUN 08 | JUN 28 | AUG 22                     | SEP 10 | SEP 29 | 124                        | 93  | 62  | 60                                |  |
|                           | 32                            | MAY 01                     | MAY 22 | JUN 12 | SEP 08                     | SEP 25 | OCT 11 | 153                        | 125 | 97  | 51                                |  |
|                           | 28                            | APR 15                     | MAY 08 | MAY 30 | SEP 17                     | OCT 07 | OCT 26 | 186                        | 151 | 117 | 42                                |  |
| GRAND LAKE 1 NW           | 36                            | JUL 23                     | JUL 29 | AUG 03 | JUL 31                     | AUG 04 | AUG 09 | 14                         | 6   | 0   | 91                                |  |
|                           | 32                            | JUL 04                     | JUL 19 | AUG 03 | JUL 30                     | AUG 09 | AUG 20 | 41                         | 20  | 0   | 82                                |  |
|                           | 28                            | JUN 10                     | JUL 01 | JUL 22 | AUG 05                     | AUG 22 | SEP 08 | 78                         | 51  | 24  | 70                                |  |
| GRAND LAKE 6 SSW          | 36                            | JUN 30                     | JUL 16 | AUG 02 | JUL 31                     | AUG 14 | AUG 30 | 51                         | 28  | 6   | 79                                |  |
|                           | 32                            | JUN 08                     | JUN 24 | JUL 11 | AUG 11                     | AUG 27 | SEP 12 | 90                         | 63  | 36  | 70                                |  |
|                           | 28                            | MAY 20                     | JUN 06 | JUN 23 | AUG 28                     | SEP 11 | SEP 25 | 118                        | 96  | 74  | 59                                |  |
| GREAT SAND DUNES NM       | 36                            | MAY 26                     | JUN 12 | JUN 29 | AUG 27                     | SEP 11 | SEP 25 | 114                        | 90  | 66  | 62                                |  |
|                           | 32                            | MAY 15                     | JUN 01 | JUN 17 | SEP 09                     | SEP 24 | OCT 10 | 139                        | 115 | 91  | 54                                |  |
|                           | 28                            | MAY 02                     | MAY 16 | MAY 30 | SEP 22                     | OCT 05 | OCT 18 | 162                        | 141 | 121 | 47                                |  |
| GREELEY CSC               | 36                            | MAY 02                     | MAY 17 | JUN 01 | SEP 10                     | SEP 21 | OCT 02 | 145                        | 127 | 108 | 54                                |  |
|                           | 32                            | APR 25                     | MAY 09 | MAY 22 | SEP 17                     | OCT 01 | OCT 14 | 164                        | 144 | 125 | 48                                |  |
|                           | 28                            | APR 08                     | APR 24 | MAY 10 | SEP 28                     | OCT 13 | OCT 28 | 191                        | 171 | 151 | 40                                |  |
| GREEN MOUNTAIN DAM        | 36                            | JUN 14                     | JUL 03 | JUL 21 | AUG 04                     | AUG 21 | SEP 07 | 76                         | 48  | 21  | 71                                |  |
|                           | 32                            | MAY 25                     | JUN 14 | JUL 04 | AUG 20                     | SEP 05 | SEP 21 | 112                        | 82  | 52  | 62                                |  |
|                           | 28                            | MAY 08                     | MAY 27 | JUN 16 | AUG 28                     | SEP 17 | OCT 08 | 145                        | 112 | 79  | 52                                |  |
| GUNNISON                  | 36                            | JUL 02                     | JUL 17 | JUL 31 | JUL 29                     | AUG 10 | AUG 23 | 46                         | 24  | 2   | 81                                |  |
|                           | 32                            | JUN 14                     | JUN 30 | JUL 16 | AUG 05                     | AUG 21 | SEP 07 | 77                         | 52  | 27  | 72                                |  |
|                           | 28                            | MAY 27                     | JUN 12 | JUN 27 | AUG 19                     | SEP 03 | SEP 17 | 104                        | 82  | 61  | 63                                |  |
| HAYDEN                    | 36                            | JUN 14                     | JUN 27 | JUL 10 | AUG 10                     | AUG 27 | SEP 12 | 84                         | 60  | 36  | 68                                |  |
|                           | 32                            | MAY 22                     | JUN 08 | JUN 25 | AUG 20                     | SEP 06 | SEP 23 | 114                        | 89  | 64  | 60                                |  |
|                           | 28                            | MAY 10                     | MAY 30 | JUN 18 | SEP 02                     | SEP 16 | OCT 01 | 131                        | 109 | 86  | 51                                |  |
| HERMIT 7 ESE              | 36                            | JUL 17                     | JUL 26 | AUG 04 | JUL 29                     | AUG 05 | AUG 13 | 23                         | 9   | 0   | 90                                |  |
|                           | 32                            | JUL 05                     | JUL 19 | AUG 01 | JUL 31                     | AUG 13 | AUG 27 | 47                         | 24  | 2   | 82                                |  |
|                           | 28                            | JUN 19                     | JUL 04 | JUL 18 | AUG 06                     | AUG 22 | SEP 07 | 71                         | 49  | 27  | 73                                |  |

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| COLORADO                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| HOLLY                     | 36<br>32<br>28                | APR 28<br>APR 18<br>APR 01 | MAY 09<br>MAY 01<br>APR 17 | MAY 21<br>MAY 13<br>MAY 04 | SEP 16<br>SEP 22<br>OCT 04 | SEP 30<br>OCT 07<br>OCT 19 | OCT 13<br>OCT 22<br>NOV 03 | 162<br>180<br>206       | 143<br>159<br>184 | 124<br>138<br>162 | 49<br>43<br>36                    |  |
| HOLYOKE                   | 36<br>32<br>28                | MAY 05<br>APR 26<br>APR 14 | MAY 19<br>MAY 09<br>APR 28 | JUN 02<br>MAY 22<br>MAY 11 | SEP 06<br>SEP 21<br>SEP 30 | SEP 20<br>OCT 02<br>OCT 14 | OCT 04<br>OCT 13<br>OCT 28 | 142<br>161<br>185       | 123<br>146<br>168 | 104<br>130<br>152 | 53<br>46<br>38                    |  |
| JOHN MARTIN DAM           | 36<br>32<br>28                | APR 24<br>APR 18<br>APR 02 | MAY 06<br>APR 29<br>APR 15 | MAY 17<br>MAY 11<br>APR 28 | SEP 15<br>SEP 24<br>OCT 12 | SEP 30<br>OCT 09<br>OCT 22 | OCT 15<br>OCT 24<br>NOV 02 | 169<br>182<br>204       | 147<br>162<br>189 | 124<br>141<br>175 | 48<br>42<br>34                    |  |
| KASSLER                   | 36<br>32<br>28                | MAY 11<br>APR 26<br>APR 14 | MAY 24<br>MAY 11<br>APR 27 | JUN 07<br>MAY 27<br>MAY 11 | SEP 11<br>SEP 20<br>OCT 01 | SEP 27<br>OCT 05<br>OCT 16 | OCT 13<br>OCT 21<br>NOV 01 | 146<br>167<br>192       | 125<br>146<br>171 | 104<br>125<br>151 | 49<br>41<br>33                    |  |
| KAUFFMAN 4 SSE            | 36<br>32<br>28                | MAY 15<br>MAY 07<br>APR 26 | JUN 04<br>MAY 20<br>MAY 09 | JUN 24<br>JUN 02<br>MAY 22 | AUG 28<br>SEP 04<br>SEP 11 | SEP 10<br>SEP 18<br>SEP 26 | SEP 23<br>OCT 03<br>OCT 11 | 121<br>138<br>157       | 97<br>121<br>140  | 72<br>103<br>122  | 59<br>51<br>44                    |  |
| LA JUNTA FAA AIRPORT      | 36<br>32<br>28                | APR 23<br>APR 09<br>MAR 29 | MAY 05<br>APR 23<br>APR 11 | MAY 16<br>MAY 08<br>APR 23 | SEP 22<br>OCT 02<br>OCT 14 | OCT 07<br>OCT 15<br>OCT 25 | OCT 22<br>OCT 29<br>NOV 05 | 175<br>194<br>214       | 155<br>175<br>197 | 134<br>155<br>179 | 46<br>40<br>33                    |  |
| LAKWOOD                   | 36<br>32<br>28                | MAY 09<br>APR 26<br>APR 15 | MAY 23<br>MAY 11<br>APR 30 | JUN 06<br>MAY 26<br>MAY 16 | SEP 07<br>SEP 14<br>SEP 27 | SEP 23<br>SEP 30<br>OCT 13 | OCT 10<br>OCT 16<br>OCT 30 | 146<br>168<br>187       | 122<br>141<br>165 | 99<br>114<br>144  | 50<br>42<br>33                    |  |
| LAMAR                     | 36<br>32<br>28                | APR 26<br>APR 15<br>MAR 30 | MAY 08<br>APR 28<br>APR 14 | MAY 19<br>MAY 11<br>APR 30 | SEP 21<br>SEP 28<br>OCT 10 | OCT 04<br>OCT 10<br>OCT 22 | OCT 16<br>OCT 22<br>NOV 03 | 168<br>186<br>213       | 148<br>164<br>190 | 129<br>143<br>168 | 48<br>43<br>35                    |  |
| LAS ANIMAS                | 36<br>32<br>28                | APR 30<br>APR 20<br>APR 05 | MAY 13<br>APR 30<br>APR 16 | MAY 25<br>MAY 09<br>APR 28 | SEP 15<br>SEP 25<br>OCT 06 | SEP 29<br>OCT 10<br>OCT 19 | OCT 13<br>OCT 24<br>NOV 01 | 159<br>182<br>203       | 139<br>162<br>185 | 118<br>142<br>167 | 50<br>44<br>37                    |  |
| LITTLE HILLS              | 36<br>32<br>28                | JUN 23<br>JUN 07<br>MAY 17 | JUL 10<br>JUN 22<br>JUN 06 | JUL 27<br>JUL 08<br>JUN 27 | AUG 03<br>AUG 17<br>AUG 24 | AUG 18<br>AUG 31<br>SEP 08 | SEP 02<br>SEP 15<br>SEP 23 | 59<br>92<br>119         | 38<br>69<br>93    | 17<br>47<br>66    | 74<br>65<br>56                    |  |
| LONGMONT 2 ESE            | 36<br>32<br>28                | MAY 05<br>APR 21<br>APR 13 | MAY 19<br>MAY 06<br>APR 25 | JUN 02<br>MAY 20<br>MAY 07 | SEP 09<br>SEP 18<br>SEP 28 | SEP 21<br>OCT 01<br>OCT 13 | OCT 03<br>OCT 14<br>OCT 28 | 145<br>170<br>189       | 124<br>148<br>171 | 104<br>125<br>152 | 54<br>48<br>40                    |  |
| MESA VERDE NAT PARK       | 36<br>32<br>28                | MAY 08<br>APR 29<br>APR 14 | MAY 25<br>MAY 13<br>APR 29 | JUN 11<br>MAY 28<br>MAY 13 | SEP 19<br>SEP 28<br>OCT 05 | OCT 05<br>OCT 16<br>OCT 22 | OCT 22<br>NOV 02<br>NOV 09 | 157<br>177<br>200       | 133<br>155<br>176 | 108<br>132<br>152 | 49<br>42<br>32                    |  |
| MONTE VISTA               | 36<br>32<br>28                | JUN 08<br>MAY 22<br>MAY 07 | JUN 25<br>JUN 25<br>MAY 24 | JUL 12<br>JUN 25<br>JUN 10 | AUG 10<br>AUG 24<br>SEP 04 | AUG 28<br>SEP 09<br>SEP 20 | SEP 14<br>SEP 25<br>OCT 07 | 91<br>121<br>146        | 63<br>92<br>119   | 34<br>64<br>91    | 71<br>63<br>55                    |  |
| MONTROSE NO 2             | 36<br>32<br>28                | MAY 07<br>APR 28<br>APR 11 | MAY 27<br>MAY 12<br>APR 25 | JUN 16<br>MAY 25<br>MAY 09 | SEP 11<br>SEP 21<br>SEP 28 | SEP 26<br>OCT 08<br>OCT 15 | OCT 10<br>OCT 25<br>OCT 31 | 148<br>171<br>193       | 121<br>148<br>172 | 94<br>126<br>152  | 53<br>46<br>38                    |  |
| NORTHDALE                 | 36<br>32<br>28                | JUN 11<br>MAY 28<br>MAY 04 | JUN 23<br>JUN 12<br>MAY 22 | JUL 04<br>JUN 27<br>JUN 09 | AUG 18<br>SEP 03<br>SEP 13 | SEP 04<br>SEP 19<br>SEP 30 | SEP 21<br>OCT 05<br>OCT 16 | 94<br>122<br>154        | 73<br>98<br>130   | 51<br>74<br>106   | 65<br>57<br>47                    |  |
| NORWOOD                   | 36<br>32<br>28                | JUN 05<br>MAY 22<br>MAY 06 | JUN 17<br>JUN 08<br>MAY 24 | JUN 28<br>JUN 26<br>JUN 11 | AUG 20<br>AUG 23<br>SEP 14 | SEP 07<br>SEP 14<br>SEP 29 | SEP 26<br>OCT 06<br>OCT 15 | 104<br>125<br>155       | 82<br>97<br>128   | 60<br>69<br>100   | 63<br>55<br>46                    |  |
| OURAY                     | 36<br>32<br>28                | MAY 24<br>MAY 09<br>APR 26 | JUN 08<br>MAY 28<br>MAY 12 | JUN 24<br>JUN 16<br>MAY 27 | SEP 03<br>SEP 12<br>SEP 24 | SEP 18<br>SEP 29<br>OCT 10 | OCT 03<br>OCT 17<br>OCT 26 | 123<br>149<br>174       | 101<br>124<br>151 | 79<br>98<br>128   | 58<br>50<br>40                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| COLORADO                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| PAGOSA SPRINGS            | 36<br>32<br>28                | JUN 22<br>JUN 12<br>MAY 24 | JUL 06<br>JUN 25<br>JUN 09 | JUL 20<br>JUL 08<br>JUN 25 | AUG 06<br>AUG 16<br>AUG 31 | AUG 23<br>SEP 03<br>SEP 18 | SEP 09<br>SEP 21<br>OCT 05 | 71<br>93<br>129         | 47<br>69<br>100   | 23<br>45<br>71    | 75<br>66<br>56                    |  |
| PALISADE                  | 36<br>32<br>28                | APR 20<br>APR 05<br>MAR 24 | MAY 08<br>APR 19<br>APR 06 | MAY 26<br>MAY 03<br>APR 18 | SEP 28<br>OCT 08<br>OCT 28 | OCT 14<br>OCT 24<br>NOV 09 | OCT 30<br>NOV 09<br>NOV 21 | 179<br>209<br>236       | 158<br>187<br>216 | 137<br>165<br>197 | 42<br>34<br>26                    |  |
| PARKER 9 E                | 36<br>32<br>28                | MAY 15<br>MAY 04<br>APR 23 | JUN 02<br>MAY 23<br>MAY 08 | JUN 21<br>JUN 12<br>MAY 24 | AUG 26<br>SEP 05<br>SEP 19 | SEP 13<br>SEP 22<br>OCT 09 | SEP 30<br>OCT 09<br>OCT 22 | 131<br>149<br>173       | 102<br>121<br>149 | 73<br>92<br>125   | 56<br>49<br>41                    |  |
| RANGELY                   | 36<br>32<br>28                | MAY 12<br>MAY 03<br>APR 19 | MAY 31<br>MAY 24<br>MAY 05 | JUN 20<br>JUN 14<br>MAY 22 | AUG 22<br>SEP 01<br>SEP 12 | SEP 07<br>SEP 19<br>SEP 29 | SEP 23<br>OCT 07<br>OCT 16 | 126<br>147<br>170       | 98<br>117<br>147  | 69<br>88<br>123   | 60<br>54<br>46                    |  |
| RIFLE                     | 36<br>32<br>28                | MAY 26<br>MAY 09<br>APR 27 | JUN 14<br>MAY 26<br>MAY 12 | JUL 03<br>JUN 12<br>MAY 26 | AUG 22<br>SEP 03<br>SEP 14 | SEP 06<br>SEP 18<br>SEP 30 | SEP 22<br>OCT 03<br>OCT 16 | 113<br>141<br>163       | 83<br>115<br>141  | 54<br>88<br>119   | 62<br>54<br>44                    |  |
| ROCKY FORD 2 ESE          | 36<br>32<br>28                | MAY 02<br>APR 22<br>APR 08 | MAY 14<br>MAY 04<br>APR 21 | MAY 27<br>MAY 15<br>MAY 03 | SEP 16<br>SEP 23<br>OCT 01 | SEP 27<br>OCT 06<br>OCT 14 | OCT 08<br>OCT 19<br>OCT 28 | 154<br>176<br>195       | 135<br>155<br>176 | 116<br>134<br>157 | 52<br>45<br>38                    |  |
| RYE                       | 36<br>32<br>28                | MAY 18<br>MAY 11<br>APR 28 | JUN 08<br>MAY 28<br>MAY 11 | JUN 29<br>JUN 13<br>MAY 23 | AUG 24<br>SEP 08<br>SEP 17 | SEP 10<br>SEP 24<br>OCT 06 | SEP 27<br>OCT 09<br>OCT 24 | 120<br>143<br>171       | 93<br>118<br>147  | 65<br>93<br>123   | 59<br>51<br>42                    |  |
| SAGUACHE                  | 36<br>32<br>28                | JUN 01<br>MAY 23<br>MAY 08 | JUN 19<br>JUN 09<br>MAY 23 | JUL 06<br>JUN 26<br>JUN 07 | AUG 13<br>AUG 25<br>SEP 09 | SEP 01<br>SEP 13<br>SEP 26 | SEP 20<br>OCT 02<br>OCT 13 | 103<br>125<br>152       | 74<br>95<br>125   | 44<br>65<br>99    | 70<br>62<br>54                    |  |
| SILVERTON                 | 36<br>32<br>28                | JUL 15<br>JUN 26<br>JUN 10 | JUL 24<br>JUL 11<br>JUN 23 | AUG 03<br>JUL 25<br>JUL 06 | JUL 31<br>AUG 03<br>AUG 13 | AUG 05<br>AUG 19<br>AUG 30 | AUG 11<br>SEP 03<br>SEP 16 | 23<br>62<br>89          | 11<br>38<br>67    | 0<br>15<br>44     | 88<br>77<br>66                    |  |
| STEAMBOAT SPRINGS         | 36<br>32<br>28                | JUL 10<br>JUN 20<br>MAY 25 | JUL 22<br>JUL 20<br>JUN 11 | AUG 02<br>AUG 03<br>AUG 22 | JUL 31<br>AUG 03<br>SEP 04 | AUG 08<br>AUG 18<br>SEP 03 | AUG 15<br>SEP 03<br>SEP 17 | 31<br>60<br>110         | 16<br>44<br>85    | 1<br>27<br>60     | 81<br>70<br>58                    |  |
| STERLING                  | 36<br>32<br>28                | MAY 02<br>APR 25<br>APR 10 | MAY 16<br>MAY 09<br>APR 24 | MAY 30<br>MAY 22<br>MAY 07 | SEP 05<br>SEP 13<br>SEP 23 | SEP 18<br>SEP 27<br>OCT 10 | OCT 01<br>OCT 11<br>OCT 26 | 141<br>159<br>188       | 124<br>141<br>168 | 106<br>122<br>148 | 54<br>48<br>41                    |  |
| STRATTON 3 NE             | 36<br>32<br>28                | MAY 04<br>APR 25<br>APR 13 | MAY 18<br>MAY 06<br>MAY 25 | JUN 01<br>MAY 18<br>MAY 08 | SEP 12<br>SEP 20<br>OCT 06 | SEP 28<br>OCT 04<br>OCT 18 | OCT 13<br>OCT 19<br>OCT 29 | 155<br>173<br>189       | 132<br>150<br>175 | 110<br>127<br>160 | 51<br>44<br>36                    |  |
| TAYLOR PARK               | 36<br>32<br>28                | JUL 03<br>JUN 12<br>MAY 25 | JUL 31<br>JUN 24<br>JUN 09 | JUL 29<br>AUG 12<br>AUG 29 | JUL 29<br>AUG 12<br>SEP 13 | AUG 10<br>AUG 29<br>SEP 27 | AUG 24<br>SEP 14<br>SEP 27 | 46<br>84<br>117         | 23<br>65<br>95    | 1<br>47<br>72     | 82<br>73<br>63                    |  |
| TELLURIDE                 | 36<br>32<br>28                | JUN 28<br>JUN 14<br>MAY 29 | JUL 13<br>JUN 28<br>JUN 14 | JUL 28<br>JUL 13<br>JUN 29 | JUL 31<br>AUG 10<br>AUG 21 | AUG 13<br>AUG 27<br>SEP 10 | AUG 26<br>SEP 13<br>SEP 30 | 49<br>83<br>115         | 30<br>59<br>88    | 12<br>34<br>60    | 78<br>68<br>57                    |  |
| TRINIDAD FAIR AIRPORT     | 36<br>32<br>28                | MAY 03<br>APR 23<br>APR 11 | MAY 18<br>MAY 06<br>APR 24 | JUN 01<br>MAY 19<br>MAY 06 | SEP 15<br>SEP 20<br>OCT 06 | SEP 28<br>OCT 06<br>OCT 20 | OCT 11<br>OCT 21<br>NOV 02 | 152<br>172<br>196       | 133<br>152<br>178 | 114<br>132<br>160 | 50<br>43<br>35                    |  |
| VALLECITO DAM             | 36<br>32<br>28                | JUN 08<br>MAY 27<br>MAY 11 | JUN 21<br>JUN 10<br>MAY 28 | JUL 05<br>JUN 24<br>JUN 13 | AUG 21<br>SEP 04<br>SEP 15 | SEP 06<br>SEP 18<br>OCT 02 | SEP 22<br>OCT 03<br>OCT 19 | 99<br>122<br>154        | 76<br>100<br>126  | 53<br>77<br>99    | 69<br>60<br>50                    |  |
| WALDEN                    | 36<br>32<br>28                | JUL 16<br>JUN 19<br>MAY 26 | JUL 26<br>JUL 10<br>JUN 18 | AUG 05<br>JUL 31<br>JUL 11 | JUL 31<br>AUG 10<br>AUG 06 | AUG 04<br>AUG 22<br>AUG 22 | AUG 09<br>AUG 22<br>SEP 07 | 22<br>58<br>93          | 9<br>31<br>64     | 0<br>4<br>35      | 84<br>74<br>64                    |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| COLORADO                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| WALSenburg Power Plant    | 36                            | MAY 11                  | MAY 23 | JUN 04 | SEP 10                  | SEP 24 | OCT 09 | 145                     | 124 | 103 | 48                                |  |
|                           | 32                            | APR 28                  | MAY 11 | MAY 24 | SEP 15                  | OCT 03 | OCT 21 | 168                     | 144 | 121 | 39                                |  |
|                           | 28                            | APR 15                  | APR 27 | MAY 10 | SEP 28                  | OCT 15 | OCT 31 | 188                     | 170 | 152 | 30                                |  |
| WATERDALE                 | 36                            | MAY 13                  | MAY 27 | JUN 11 | SEP 02                  | SEP 18 | OCT 03 | 134                     | 112 | 91  | 55                                |  |
|                           | 32                            | MAY 01                  | MAY 13 | MAY 26 | SEP 11                  | SEP 27 | OCT 13 | 157                     | 136 | 115 | 47                                |  |
|                           | 28                            | APR 17                  | MAY 01 | MAY 14 | SEP 22                  | OCT 09 | OCT 25 | 183                     | 160 | 137 | 38                                |  |
| WESTCLIFFE                | 36                            | JUN 21                  | JUL 08 | JUL 24 | AUG 04                  | AUG 18 | SEP 02 | 64                      | 41  | 18  | 71                                |  |
|                           | 32                            | JUN 01                  | JUN 14 | JUN 27 | AUG 25                  | SEP 05 | SEP 17 | 102                     | 82  | 63  | 62                                |  |
|                           | 28                            | MAY 19                  | JUN 02 | JUN 16 | AUG 30                  | SEP 12 | SEP 25 | 120                     | 101 | 83  | 54                                |  |
| WRAY                      | 36                            | MAY 06                  | MAY 17 | MAY 29 | SEP 10                  | SEP 20 | OCT 01 | 140                     | 125 | 110 | 52                                |  |
|                           | 32                            | APR 24                  | MAY 08 | MAY 23 | SEP 17                  | OCT 01 | OCT 15 | 161                     | 145 | 129 | 46                                |  |
|                           | 28                            | APR 14                  | APR 26 | MAY 09 | SEP 28                  | OCT 10 | OCT 23 | 185                     | 166 | 147 | 39                                |  |
| CONNECTICUT               |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| DANBURY                   | 36                            | MAY 03                  | MAY 18 | JUN 01 | SEP 14                  | SEP 24 | OCT 03 | 147                     | 129 | 111 | 45                                |  |
|                           | 32                            | APR 16                  | APR 30 | MAY 15 | SEP 22                  | OCT 06 | OCT 20 | 179                     | 158 | 137 | 37                                |  |
|                           | 28                            | APR 01                  | APR 14 | APR 26 | OCT 03                  | OCT 18 | NOV 01 | 206                     | 185 | 167 | 28                                |  |
| FALLS VILLAGE             | 36                            | MAY 17                  | MAY 31 | JUN 15 | SEP 05                  | SEP 17 | SEP 28 | 129                     | 108 | 86  | 52                                |  |
|                           | 32                            | MAY 04                  | MAY 19 | JUN 03 | SEP 12                  | SEP 25 | OCT 09 | 147                     | 128 | 109 | 45                                |  |
|                           | 28                            | APR 21                  | MAY 05 | MAY 18 | SEP 21                  | OCT 07 | OCT 23 | 175                     | 155 | 135 | 37                                |  |
| HARTFORD BRAINARD FLD     | 36                            | APR 30                  | MAY 13 | MAY 26 | SEP 15                  | OCT 02 | OCT 18 | 163                     | 141 | 119 | 45                                |  |
|                           | 32                            | APR 08                  | APR 25 | MAY 12 | SEP 23                  | OCT 10 | OCT 26 | 192                     | 167 | 142 | 38                                |  |
|                           | 28                            | APR 02                  | APR 12 | APR 22 | OCT 09                  | OCT 23 | NOV 05 | 210                     | 193 | 177 | 29                                |  |
| MIDDLETOWN 4 W            | 36                            | APR 24                  | MAY 09 | MAY 23 | SEP 16                  | OCT 03 | OCT 19 | 172                     | 146 | 120 | 41                                |  |
|                           | 32                            | APR 04                  | APR 23 | MAY 12 | SEP 25                  | OCT 12 | OCT 30 | 199                     | 172 | 144 | 33                                |  |
|                           | 28                            | MAR 26                  | APR 07 | APR 18 | OCT 10                  | OCT 27 | NOV 12 | 221                     | 202 | 183 | 24                                |  |
| MOUNT CARMEL              | 36                            | MAY 01                  | MAY 15 | MAY 29 | SEP 19                  | SEP 30 | OCT 10 | 153                     | 137 | 120 | 44                                |  |
|                           | 32                            | APR 17                  | MAY 01 | MAY 14 | SEP 24                  | OCT 08 | OCT 23 | 182                     | 160 | 138 | 36                                |  |
|                           | 28                            | MAR 31                  | APR 13 | APR 27 | OCT 09                  | OCT 24 | NOV 07 | 214                     | 193 | 171 | 27                                |  |
| NORFOLK 2 SW              | 36                            | MAY 11                  | MAY 27 | JUN 11 | SEP 09                  | SEP 21 | OCT 02 | 138                     | 116 | 95  | 52                                |  |
|                           | 32                            | MAY 01                  | MAY 14 | MAY 27 | SEP 18                  | OCT 02 | OCT 15 | 159                     | 140 | 120 | 46                                |  |
|                           | 28                            | APR 14                  | APR 27 | MAY 11 | SEP 30                  | OCT 16 | NOV 01 | 194                     | 171 | 148 | 37                                |  |
| NORWALK GAS PLANT         | 36                            | APR 23                  | MAY 09 | MAY 24 | SEP 21                  | OCT 05 | OCT 19 | 171                     | 149 | 127 | 44                                |  |
|                           | 32                            | APR 09                  | APR 24 | MAY 08 | OCT 02                  | OCT 14 | OCT 27 | 191                     | 173 | 155 | 36                                |  |
|                           | 28                            | MAR 29                  | APR 08 | APR 19 | OCT 13                  | OCT 30 | NOV 15 | 223                     | 204 | 184 | 27                                |  |
| SHEPAUG DAM               | 36                            | MAY 04                  | MAY 19 | JUN 03 | SEP 11                  | SEP 24 | OCT 07 | 145                     | 127 | 109 | 48                                |  |
|                           | 32                            | APR 23                  | MAY 07 | MAY 20 | SEP 22                  | OCT 07 | OCT 21 | 171                     | 152 | 133 | 41                                |  |
|                           | 28                            | APR 07                  | APR 20 | MAY 02 | OCT 05                  | OCT 20 | NOV 04 | 202                     | 183 | 163 | 31                                |  |
| STORRS                    | 36                            | APR 26                  | MAY 13 | MAY 29 | SEP 20                  | OCT 01 | OCT 12 | 157                     | 140 | 124 | 45                                |  |
|                           | 32                            | APR 15                  | APR 30 | MAY 14 | SEP 24                  | OCT 12 | OCT 30 | 190                     | 165 | 140 | 38                                |  |
|                           | 28                            | APR 05                  | APR 12 | APR 19 | OCT 08                  | OCT 24 | NOV 09 | 209                     | 194 | 179 | 29                                |  |
| WEST THOMPSON DAM         | 36                            | MAY 13                  | MAY 29 | JUN 14 | AUG 30                  | SEP 15 | SEP 30 | 129                     | 108 | 87  | 52                                |  |
|                           | 32                            | MAY 01                  | MAY 18 | JUN 04 | SEP 13                  | SEP 26 | OCT 09 | 151                     | 130 | 110 | 45                                |  |
|                           | 28                            | APR 16                  | MAY 02 | MAY 18 | SEP 24                  | OCT 09 | OCT 23 | 185                     | 159 | 132 | 36                                |  |
| WIGWAM RESERVOIR          | 36                            | MAY 08                  | MAY 25 | JUN 10 | SEP 10                  | SEP 25 | OCT 09 | 147                     | 122 | 98  | 49                                |  |
|                           | 32                            | MAY 01                  | MAY 14 | MAY 28 | SEP 20                  | OCT 06 | OCT 22 | 165                     | 144 | 123 | 42                                |  |
|                           | 28                            | APR 12                  | APR 26 | MAY 10 | SEP 29                  | OCT 16 | NOV 02 | 193                     | 172 | 152 | 32                                |  |
| DELAWARE                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| BRIDGEVILLE 1 NW          | 36                            | APR 14                  | APR 27 | MAY 10 | SEP 26                  | OCT 09 | OCT 21 | 184                     | 164 | 143 | 34                                |  |
|                           | 32                            | APR 07                  | APR 19 | MAY 01 | OCT 03                  | OCT 19 | NOV 03 | 203                     | 182 | 161 | 27                                |  |
|                           | 28                            | MAR 22                  | APR 04 | APR 18 | OCT 16                  | NOV 03 | NOV 20 | 237                     | 212 | 187 | 18                                |  |

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |      |      | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|------|------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |      |      |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50   | 90   |                                   |  |
| DELAWARE                  |                               |                         |        |        |                         |        |        |                         |      |      |                                   |  |
| DOVER                     | 36                            | APR 10                  | APR 23 | MAY 06 | OCT 05                  | OCT 18 | NOV 01 | 196                     | 178  | 159  | 33                                |  |
|                           | 32                            | MAR 30                  | APR 09 | APR 19 | OCT 15                  | OCT 28 | NOV 11 | 218                     | 202  | 186  | 25                                |  |
|                           | 28                            | MAR 15                  | MAR 27 | APR 09 | OCT 28                  | NOV 11 | NOV 25 | 248                     | 228  | 209  | 17                                |  |
| GEORGETOWN 5 SW           | 36                            | APR 23                  | MAY 05 | MAY 18 | SEP 24                  | OCT 07 | OCT 20 | 174                     | 154  | 134  | 36                                |  |
|                           | 32                            | APR 08                  | APR 23 | MAY 07 | OCT 02                  | OCT 16 | OCT 31 | 199                     | 176  | 153  | 29                                |  |
|                           | 28                            | MAR 28                  | APR 11 | APR 21 | OCT 14                  | OCT 31 | NOV 16 | 222                     | 202  | 182  | 20                                |  |
| LEWES 1 SW                | 36                            | APR 11                  | APR 22 | MAY 04 | OCT 06                  | OCT 20 | NOV 03 | 199                     | 180  | 161  | 32                                |  |
|                           | 32                            | APR 02                  | APR 13 | APR 24 | OCT 12                  | OCT 27 | NOV 11 | 214                     | 196  | 178  | 25                                |  |
|                           | 28                            | MAR 12                  | MAR 26 | APR 10 | OCT 26                  | NOV 10 | NOV 24 | 251                     | 228  | 204  | 17                                |  |
| MILFORD 2 WSW             | 36                            | APR 14                  | APR 29 | MAY 14 | SEP 25                  | OCT 08 | OCT 21 | 186                     | 162  | 137  | 34                                |  |
|                           | 32                            | APR 06                  | APR 20 | MAY 04 | OCT 02                  | OCT 19 | NOV 05 | 202                     | 181  | 161  | 27                                |  |
|                           | 28                            | MAR 24                  | APR 05 | APR 17 | OCT 13                  | OCT 31 | NOV 18 | 232                     | 209  | 186  | 19                                |  |
| NEWARK UNIVERSITY FARM    | 36                            | APR 19                  | MAY 04 | MAY 18 | SEP 25                  | OCT 09 | OCT 22 | 179                     | 157  | 135  | 38                                |  |
|                           | 32                            | APR 08                  | APR 22 | MAY 06 | OCT 05                  | OCT 20 | NOV 03 | 200                     | 180  | 161  | 30                                |  |
|                           | 28                            | MAR 29                  | APR 09 | APR 20 | OCT 19                  | NOV 03 | NOV 18 | 224                     | 208  | 191  | 21                                |  |
| WILMINGTON NCASTLE WSO    | 36                            | APR 10                  | APR 25 | MAY 10 | OCT 03                  | OCT 16 | OCT 29 | 192                     | 173  | 153  | 36                                |  |
|                           | 32                            | APR 01                  | APR 13 | APR 25 | OCT 15                  | OCT 29 | NOV 11 | 216                     | 198  | 181  | 28                                |  |
|                           | 28                            | MAR 16                  | MAR 31 | APR 14 | OCT 24                  | NOV 08 | NOV 23 | 244                     | 221  | 199  | 19                                |  |
| WILMINGTON PORTER RES     | 36                            | APR 09                  | APR 23 | MAY 08 | OCT 03                  | OCT 16 | OCT 29 | 196                     | 175  | 154  | 36                                |  |
|                           | 32                            | MAR 29                  | APR 13 | APR 28 | OCT 15                  | OCT 30 | NOV 14 | 219                     | 199  | 179  | 28                                |  |
|                           | 28                            | MAR 16                  | MAR 31 | APR 14 | OCT 25                  | NOV 10 | NOV 26 | 248                     | 224  | 199  | 20                                |  |
| FLORIDA                   |                               |                         |        |        |                         |        |        |                         |      |      |                                   |  |
| APALACHICOLA WSO          | 36                            | FEB 01                  | FEB 24 | MAR 19 | NOV 07                  | NOV 28 | DEC 18 | 309                     | 276  | 243  | 5                                 |  |
|                           | 32                            | JAN 03                  | FEB 06 | MAR 12 | NOV 16                  | DEC 12 | JAN 07 | 350                     | 306  | 272  | 2                                 |  |
|                           | 28                            | -                       | JAN 19 | FEB 20 | DEC 05                  | JAN 14 | -      | >365                    | >365 | 311  | 1                                 |  |
| ARCADIA                   | 36                            | JAN 29                  | MAR 02 | APR 03 | NOV 12                  | DEC 01 | DEC 21 | 312                     | 274  | 235  | 4                                 |  |
|                           | 32                            | -                       | FEB 08 | MAR 11 | NOV 22                  | DEC 24 | -      | >365                    | 315  | 279  | 2                                 |  |
|                           | 28                            | -                       | JAN 13 | FEB 23 | DEC 16                  | JAN 25 | -      | >365                    | >365 | 313  | 1                                 |  |
| ARCHBOLD BIOLOGIC STA     | 36                            | FEB 04                  | MAR 02 | MAR 28 | NOV 11                  | DEC 12 | JAN 11 | 323                     | 284  | 246  | 3                                 |  |
|                           | 32                            | DEC 24                  | FEB 02 | MAR 11 | NOV 23                  | DEC 26 | JAN 31 | >365                    | 324  | 284  | 2                                 |  |
|                           | 28                            | -                       | JAN 22 | FEB 27 | DEC 11                  | JAN 20 | -      | >365                    | >365 | 310  | 1                                 |  |
| AVON PARK                 | 36                            | JAN 15                  | FEB 18 | MAR 25 | NOV 12                  | DEC 16 | JAN 19 | 344                     | 299  | 258  | 3                                 |  |
|                           | 32                            | -                       | JAN 23 | MAR 01 | DEC 06                  | DEC 31 | -      | >365                    | 341  | 299  | 1                                 |  |
|                           | 28                            | -                       | -      | FEB 07 | DEC 22                  | -      | -      | >365                    | >365 | 340  | 0                                 |  |
| BARTOW                    | 36                            | JAN 29                  | FEB 20 | MAR 14 | NOV 13                  | DEC 08 | JAN 02 | 322                     | 290  | 259  | 3                                 |  |
|                           | 32                            | DEC 16                  | JAN 30 | MAR 06 | NOV 26                  | DEC 25 | -      | >365                    | 325  | 288  | 1                                 |  |
|                           | 28                            | -                       | -      | FEB 12 | DEC 13                  | -      | -      | >365                    | >365 | 332  | 0                                 |  |
| BELLE GLADE EXP STA       | 36                            | JAN 02                  | FEB 05 | MAR 04 | NOV 29                  | DEC 25 | -      | >365                    | 325  | 295  | 2                                 |  |
|                           | 32                            | -                       | JAN 11 | FEB 21 | DEC 10                  | JAN 19 | -      | >365                    | 319  | 299  | 1                                 |  |
|                           | 28                            | -                       | -      | JAN 20 | DEC 29                  | -      | -      | >365                    | >365 | >365 | 0                                 |  |
| BRADENTON 5 ESE           | 36                            | JAN 13                  | FEB 14 | MAR 15 | NOV 18                  | DEC 11 | JAN 06 | 343                     | 300  | 266  | 2                                 |  |
|                           | 32                            | -                       | JAN 19 | FEB 23 | DEC 04                  | JAN 07 | -      | >365                    | 360  | 309  | 1                                 |  |
|                           | 28                            | -                       | -      | JAN 31 | DEC 28                  | -      | -      | >365                    | >365 | >365 | 0                                 |  |
| BROOKSVILLE CHIN HILL     | 36                            | FEB 04                  | FEB 28 | MAR 23 | NOV 11                  | DEC 02 | DEC 22 | 308                     | 276  | 245  | 3                                 |  |
|                           | 32                            | JAN 09                  | FEB 08 | MAR 10 | NOV 22                  | DEC 22 | JAN 24 | >365                    | 311  | 282  | 1                                 |  |
|                           | 28                            | -                       | JAN 20 | FEB 21 | DEC 08                  | JAN 19 | -      | >365                    | >365 | 319  | 1                                 |  |
| BUSHNELL 2 E              | 36                            | FEB 18                  | MAR 11 | APR 01 | OCT 31                  | NOV 21 | DEC 11 | 286                     | 254  | 223  | 6                                 |  |
|                           | 32                            | FEB 03                  | MAR 01 | MAR 26 | NOV 09                  | DEC 03 | DEC 29 | 316                     | 277  | 242  | 4                                 |  |
|                           | 28                            | DEC 29                  | FEB 05 | MAR 12 | NOV 23                  | DEC 24 | FEB 02 | >365                    | 319  | 282  | 2                                 |  |

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                      |                      | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|----------------------|----------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                      |                      |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                   | 90                   |                                   |  |
| FLORIDA                   |                               |                            |                            |                            |                            |                            |                            |                         |                      |                      |                                   |  |
| CHIPLEY 3 E               | 36<br>32<br>28                | MAR 06<br>FEB 14<br>FEB 02 | MAR 23<br>MAR 06<br>FEB 23 | APR 08<br>MAR 26<br>MAR 16 | OCT 19<br>OCT 30<br>NOV 06 | NOV 05<br>NOV 14<br>NOV 27 | NOV 22<br>NOV 29<br>DEC 19 | 248<br>276<br>308       | 226<br>252<br>276    | 204<br>228<br>244    | 14<br>9<br>5                      |  |
| CLERMONT 6 SSW            | 36<br>32<br>28                | JAN 26<br>-<br>-           | FEB 20<br>JAN 24<br>FEB 06 | MAR 16<br>FEB 28<br>DEC 19 | NOV 18<br>DEC 04<br>DEC 19 | DEC 11<br>JAN 03<br>-      | JAN 03<br>-                | 326<br>>365<br>>365     | 294<br>346<br>>365   | 262<br>308<br>345    | 3<br>1<br>0                       |  |
| CLEWISTON U S ENG         | 36<br>32<br>28                | -<br>-<br>-                | JAN 17<br>FEB 13<br>-      | FEB 23<br>DEC 29<br>-      | DEC 19<br>DEC 29<br>-      | JAN 30<br>-                | -                          | >365<br>>365<br>>365    | >365<br>>365<br>>365 | 320<br>320<br>320    | 0<br>0<br>0                       |  |
| CROSS CITY 2 WNW          | 36<br>32<br>28                | MAR 08<br>FEB 19<br>JAN 25 | MAR 24<br>MAR 14<br>FEB 20 | APR 10<br>APR 06<br>MAR 19 | OCT 18<br>OCT 28<br>NOV 05 | NOV 05<br>NOV 17<br>DEC 02 | NOV 22<br>DEC 07<br>DEC 31 | 246<br>281<br>324       | 224<br>247<br>284    | 203<br>214<br>248    | 13<br>8<br>4                      |  |
| DAYTONA BEACH WSO         | 36<br>32<br>28                | FEB 06<br>JAN 09<br>-      | FEB 27<br>FEB 08<br>JAN 06 | MAR 20<br>MAR 11<br>FEB 14 | NOV 14<br>DEC 01<br>DEC 19 | DEC 09<br>JAN 04<br>JAN 29 | JAN 03<br>FEB 09<br>-      | 320<br>>365<br>>365     | 284<br>327<br>>365   | 248<br>283<br>335    | 4<br>2<br>0                       |  |
| DE FUNIAK SPRINGS         | 36<br>32<br>28                | MAR 10<br>FEB 20<br>JAN 27 | MAR 30<br>MAR 14<br>FEB 26 | APR 20<br>APR 05<br>MAR 27 | OCT 09<br>OCT 22<br>NOV 01 | OCT 29<br>NOV 10<br>NOV 22 | NOV 19<br>NOV 28<br>DEC 13 | 250<br>273<br>312       | 212<br>240<br>269    | 175<br>207<br>225    | 14<br>10<br>6                     |  |
| DELAND 1 SSE              | 36<br>32<br>28                | FEB 25<br>JAN 21<br>-      | MAR 13<br>MAR 19<br>JAN 28 | MAR 30<br>MAR 21<br>MAR 03 | NOV 02<br>NOV 13<br>NOV 30 | NOV 23<br>DEC 10<br>JAN 04 | DEC 14<br>JAN 06<br>-      | 282<br>334<br>>365      | 254<br>292<br>346    | 226<br>254<br>299    | 6<br>3<br>1                       |  |
| EVERGLADES                | 36<br>32<br>28                | -<br>-<br>-                | JAN 20<br>JAN 25<br>-      | FEB 24<br>JAN 25<br>-      | DEC 16<br>DEC 28<br>-      | JAN 25<br>-                | -                          | >365<br>>365<br>>365    | >365<br>>365<br>>365 | 316<br>316<br>316    | 1<br>0<br>0                       |  |
| FORT LAUDERDALE           | 36<br>32<br>28                | -<br>-<br>-                | JAN 01<br>FEB 01<br>-      | FEB 10<br>FEB 01<br>-      | DEC 14<br>JAN 16<br>-      | FEB 04<br>-                | -                          | >365<br>>365<br>>365    | >365<br>>365<br>>365 | 332<br>332<br>332    | 0<br>0<br>0                       |  |
| FORT MYERS WSO            | 36<br>32<br>28                | -<br>-<br>-                | JAN 19<br>FEB 10<br>-      | FEB 25<br>DEC 26<br>-      | DEC 06<br>DEC 26<br>-      | JAN 08<br>-                | -                          | >365<br>>365<br>>365    | >365<br>>365<br>>365 | 306<br>306<br>306    | 1<br>0<br>0                       |  |
| FORT PIERCE               | 36<br>32<br>28                | -<br>-<br>-                | JAN 28<br>JAN 12<br>-      | MAR 03<br>FEB 19<br>JAN 24 | DEC 05<br>DEC 15<br>JAN 07 | DEC 30<br>JAN 24<br>-      | -                          | >365<br>>365<br>>365    | 336<br>>365<br>>365  | 301<br>321<br>321    | 1<br>0<br>0                       |  |
| GAINESVILLE 2 WSW         | 36<br>32<br>28                | FEB 25<br>FEB 05<br>JAN 03 | MAR 16<br>MAR 03<br>FEB 03 | APR 05<br>MAR 29<br>MAR 07 | OCT 30<br>NOV 05<br>NOV 14 | NOV 17<br>NOV 27<br>DEC 11 | DEC 06<br>DEC 18<br>JAN 10 | 273<br>304<br>>365      | 245<br>268<br>309    | 217<br>232<br>277    | 8<br>5<br>2                       |  |
| GLEN ST MARY 1 W          | 36<br>32<br>28                | MAR 11<br>FEB 28<br>FEB 05 | MAR 28<br>MAR 16<br>FEB 26 | APR 15<br>APR 02<br>MAR 20 | OCT 20<br>OCT 31<br>NOV 08 | NOV 05<br>NOV 16<br>DEC 01 | NOV 20<br>DEC 03<br>DEC 26 | 241<br>268<br>315       | 221<br>244<br>277    | 200<br>221<br>243    | 13<br>8<br>4                      |  |
| HIALEAH                   | 36<br>32<br>28                | -<br>-<br>-                | DEC 24<br>JAN 15<br>-      | FEB 09<br>JAN 29<br>-      | DEC 23<br>-                | FEB 12<br>-                | -                          | >365<br>>365<br>>365    | >365<br>>365<br>>365 | >365<br>>365<br>>365 | 0<br>0<br>0                       |  |
| HIGH SPRINGS              | 36<br>32<br>28                | FEB 28<br>FEB 15<br>JAN 07 | MAR 18<br>MAR 06<br>FEB 04 | APR 05<br>MAR 25<br>MAR 05 | OCT 23<br>NOV 03<br>NOV 10 | NOV 10<br>NOV 25<br>DEC 08 | NOV 27<br>DEC 16<br>JAN 05 | 263<br>292<br>342       | 236<br>263<br>305    | 209<br>234<br>271    | 9<br>6<br>3                       |  |
| HOMESTEAD EXP STA         | 36<br>32<br>28                | -<br>-<br>-                | JAN 31<br>JAN 28<br>JAN 18 | MAR 12<br>DEC 28<br>JAN 30 | DEC 01<br>DEC 28<br>-      | JAN 04<br>-                | -                          | >365<br>>365<br>>365    | 344<br>365<br>>365   | 287<br>354<br>>365   | 1<br>0<br>0                       |  |
| INVERNESS                 | 36<br>32<br>28                | FEB 08<br>JAN 08<br>-      | MAR 02<br>FEB 09<br>JAN 11 | MAR 24<br>MAR 10<br>FEB 15 | NOV 05<br>NOV 20<br>DEC 03 | DEC 03<br>DEC 21<br>JAN 09 | DEC 30<br>JAN 31<br>-      | 307<br>>365<br>>365     | 275<br>316<br>>365   | 243<br>280<br>319    | 5<br>2<br>1                       |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |      |      | FREEZE / FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|------|------|-------------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |      |      |                                     |  |
|                           |                               | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50   | 90   |                                     |  |
| <b>FLORIDA</b>            |                               |                            |        |        |                            |        |        |                            |      |      |                                     |  |
| JACKSONVILLE BEACH        | 36                            | FEB 08                     | MAR 02 | MAR 24 | NOV 08                     | NOV 29 | DEC 20 | 304                        | 271  | 239  | 5                                   |  |
|                           | 32                            | JAN 17                     | FEB 14 | MAR 14 | NOV 16                     | DEC 14 | JAN 13 | 343                        | 303  | 267  | 2                                   |  |
|                           | 28                            | -                          | JAN 23 | FEB 25 | DEC 08                     | JAN 03 | -      | >365                       | >365 | 307  | 1                                   |  |
| JASPER                    | 36                            | MAR 13                     | MAR 30 | APR 16 | OCT 18                     | OCT 31 | NOV 13 | 234                        | 213  | 192  | 14                                  |  |
|                           | 32                            | FEB 27                     | MAR 14 | MAR 29 | OCT 21                     | NOV 10 | DEC 01 | 268                        | 241  | 213  | 10                                  |  |
|                           | 28                            | FEB 03                     | FEB 26 | MAR 20 | NOV 07                     | NOV 29 | DEC 20 | 309                        | 275  | 242  | 5                                   |  |
| LAKE ALFRED EXP STA       | 36                            | FEB 12                     | MAR 02 | MAR 21 | NOV 12                     | DEC 04 | DEC 26 | 300                        | 276  | 252  | 4                                   |  |
|                           | 32                            | JAN 11                     | FEB 06 | MAR 01 | NOV 26                     | DEC 27 | FEB 05 | >365                       | 321  | 291  | 2                                   |  |
|                           | 28                            | -                          | JAN 14 | FEB 19 | DEC 12                     | JAN 17 | -      | >365                       | >365 | 315  | 1                                   |  |
| LAKE CITY 2 E             | 36                            | MAR 05                     | MAR 22 | APR 08 | OCT 23                     | NOV 10 | NOV 28 | 256                        | 232  | 209  | 10                                  |  |
|                           | 32                            | FEB 21                     | MAR 10 | MAR 27 | NOV 05                     | NOV 22 | DEC 08 | 282                        | 256  | 229  | 6                                   |  |
|                           | 28                            | JAN 21                     | FEB 13 | MAR 08 | NOV 12                     | DEC 05 | DEC 31 | 326                        | 295  | 268  | 3                                   |  |
| LOXAHATCHEE               | 36                            | JAN 25                     | FEB 19 | MAR 15 | NOV 28                     | DEC 27 | JAN 26 | 348                        | 310  | 275  | 2                                   |  |
|                           | 32                            | -                          | JAN 16 | FEB 25 | DEC 18                     | JAN 22 | -      | >365                       | >365 | 323  | 1                                   |  |
|                           | 28                            | -                          | -      | FEB 11 | JAN 02                     | -      | -      | >365                       | >365 | >365 | 0                                   |  |
| MADISON                   | 36                            | FEB 20                     | MAR 10 | MAR 29 | OCT 26                     | NOV 10 | NOV 25 | 266                        | 244  | 222  | 9                                   |  |
|                           | 32                            | FEB 06                     | FEB 28 | MAR 22 | NOV 04                     | NOV 21 | DEC 08 | 294                        | 265  | 237  | 5                                   |  |
|                           | 28                            | JAN 14                     | FEB 09 | MAR 08 | NOV 14                     | DEC 08 | DEC 31 | 330                        | 301  | 272  | 2                                   |  |
| MAYO                      | 36                            | MAR 06                     | MAR 22 | APR 08 | OCT 20                     | NOV 03 | NOV 17 | 247                        | 225  | 202  | 12                                  |  |
|                           | 32                            | FEB 17                     | MAR 11 | APR 01 | OCT 27                     | NOV 16 | DEC 06 | 283                        | 250  | 216  | 7                                   |  |
|                           | 28                            | JAN 25                     | FEB 20 | MAR 18 | NOV 05                     | NOV 29 | DEC 26 | 321                        | 282  | 247  | 4                                   |  |
| MELBOURNE                 | 36                            | JAN 01                     | FEB 08 | MAR 14 | NOV 25                     | DEC 24 | JAN 30 | >365                       | 317  | 280  | 2                                   |  |
|                           | 32                            | -                          | JAN 19 | MAR 03 | DEC 09                     | JAN 16 | -      | >365                       | >365 | 303  | 1                                   |  |
|                           | 28                            | -                          | -      | FEB 08 | JAN 03                     | -      | -      | >365                       | >365 | >365 | 0                                   |  |
| MIAMI BEACH               | 36                            | -                          | -      | JAN 13 | JAN 13                     | -      | -      | >365                       | >365 | >365 | 0                                   |  |
|                           | 32                            | -                          | -      | -      | -                          | -      | -      | >365                       | >365 | >365 | 0                                   |  |
|                           | 28                            | -                          | -      | -      | -                          | -      | -      | >365                       | >365 | >365 | 0                                   |  |
| MIAMI WSO                 | 36                            | -                          | -      | FEB 07 | DEC 30                     | -      | -      | >365                       | >365 | >365 | 0                                   |  |
|                           | 32                            | -                          | -      | -      | -                          | -      | -      | >365                       | >365 | >365 | 0                                   |  |
|                           | 28                            | -                          | -      | -      | -                          | -      | -      | >365                       | >365 | >365 | 0                                   |  |
| MIAMI 12 SSW              | 36                            | -                          | JAN 11 | FEB 17 | DEC 13                     | JAN 12 | -      | >365                       | >365 | 325  | 1                                   |  |
|                           | 32                            | -                          | -      | JAN 21 | JAN 14                     | -      | -      | >365                       | >365 | >365 | 0                                   |  |
|                           | 28                            | -                          | -      | -      | -                          | -      | -      | >365                       | >365 | >365 | 0                                   |  |
| MILTON EXP STATION        | 36                            | MAR 11                     | MAR 27 | APR 12 | OCT 21                     | NOV 06 | NOV 21 | 245                        | 223  | 201  | 13                                  |  |
|                           | 32                            | FEB 18                     | MAR 10 | MAR 29 | OCT 29                     | NOV 16 | DEC 05 | 280                        | 251  | 222  | 8                                   |  |
|                           | 28                            | FEB 05                     | FEB 25 | MAR 18 | NOV 03                     | NOV 26 | DEC 19 | 302                        | 273  | 244  | 4                                   |  |
| MONTICELLO 3 W            | 36                            | MAR 08                     | MAR 24 | APR 09 | OCT 14                     | NOV 02 | NOV 20 | 247                        | 222  | 197  | 14                                  |  |
|                           | 32                            | FEB 19                     | MAR 09 | MAR 27 | OCT 30                     | NOV 16 | DEC 04 | 280                        | 252  | 224  | 9                                   |  |
|                           | 28                            | JAN 28                     | FEB 21 | MAR 17 | NOV 07                     | NOV 24 | DEC 12 | 305                        | 276  | 247  | 5                                   |  |
| MOORE HAVEN LOCK 1        | 36                            | DEC 20                     | JAN 27 | MAR 03 | NOV 29                     | DEC 29 | FEB 06 | >365                       | 338  | 299  | 2                                   |  |
|                           | 32                            | -                          | JAN 13 | FEB 18 | DEC 18                     | JAN 28 | -      | >365                       | >365 | 334  | 1                                   |  |
|                           | 28                            | -                          | -      | JAN 11 | JAN 10                     | -      | -      | >365                       | >365 | >365 | 0                                   |  |
| MOUNTAIN LAKE             | 36                            | FEB 10                     | MAR 02 | MAR 23 | NOV 09                     | DEC 04 | DEC 28 | 305                        | 275  | 246  | 4                                   |  |
|                           | 32                            | JAN 11                     | FEB 10 | MAR 09 | NOV 24                     | DEC 27 | FEB 06 | >365                       | 318  | 278  | 2                                   |  |
|                           | 28                            | -                          | JAN 17 | FEB 23 | DEC 13                     | JAN 19 | -      | >365                       | >365 | 314  | 1                                   |  |
| NAPLES 2 NE               | 36                            | -                          | JAN 30 | MAR 06 | DEC 10                     | JAN 07 | -      | >365                       | 342  | 305  | 1                                   |  |
|                           | 32                            | -                          | -      | JAN 27 | DEC 19                     | -      | -      | >365                       | >365 | >365 | 0                                   |  |
|                           | 28                            | -                          | -      | -      | -                          | -      | -      | >365                       | >365 | >365 | 0                                   |  |
| NICEVILLE                 | 36                            | MAR 15                     | MAR 28 | APR 11 | OCT 19                     | NOV 03 | NOV 18 | 240                        | 219  | 198  | 16                                  |  |
|                           | 32                            | FEB 26                     | MAR 19 | APR 08 | OCT 30                     | NOV 14 | NOV 29 | 265                        | 239  | 213  | 11                                  |  |
|                           | 28                            | FEB 06                     | FEB 26 | MAR 19 | NOV 05                     | NOV 28 | DEC 20 | 306                        | 274  | 241  | 5                                   |  |

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                      |                    | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|----------------------|--------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                      |                    |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                   | 90                 |                                   |  |
| FLORIDA                   |                               |                            |                            |                            |                            |                            |                            |                         |                      |                    |                                   |  |
| OCALA                     | 36<br>32<br>28                | FEB 14<br>JAN 21<br>-      | MAR 10<br>FEB 19<br>JAN 25 | APR 03<br>MAR 20<br>FEB 28 | OCT 30<br>NOV 07<br>NOV 25 | NOV 24<br>DEC 09<br>JAN 01 | DEC 18<br>JAN 14<br>-      | 297<br>342<br>>365      | 258<br>293<br>349    | 220<br>249<br>292  | 6<br>3<br>1                       |  |
| PALATKA                   | 36<br>32<br>28                | FEB 06<br>JAN 11<br>-      | MAR 02<br>FEB 10<br>JAN 19 | MAR 26<br>MAR 11<br>FEB 23 | NOV 09<br>NOV 17<br>DEC 12 | DEC 01<br>DEC 12<br>JAN 26 | DEC 22<br>JAN 10<br>-      | 308<br>347<br>>365      | 273<br>305<br>>365   | 239<br>272<br>321  | 5<br>2<br>1                       |  |
| PENSACOLA WSO             | 36<br>32<br>28                | FEB 16<br>JAN 26<br>DEC 29 | MAR 09<br>FEB 21<br>FEB 02 | MAR 30<br>MAR 20<br>MAR 10 | NOV 01<br>NOV 08<br>NOV 26 | NOV 20<br>NOV 29<br>DEC 16 | DEC 10<br>DEC 19<br>JAN 05 | 285<br>315<br>356       | 256<br>280<br>315    | 227<br>244<br>278  | 8<br>4<br>2                       |  |
| PLANT CITY                | 36<br>32<br>28                | FEB 10<br>JAN 12<br>-      | MAR 02<br>FEB 09<br>JAN 17 | MAR 23<br>MAR 07<br>FEB 16 | NOV 06<br>NOV 19<br>DEC 07 | NOV 29<br>DEC 19<br>JAN 07 | DEC 23<br>JAN 27<br>-      | 300<br>>365<br>>365     | 271<br>310<br>>365   | 243<br>280<br>317  | 4<br>2<br>1                       |  |
| POMPANO BEACH             | 36<br>32<br>28                | -<br>-<br>-                | JAN 14<br>-<br>-           | FEB 21<br>FEB 03<br>-      | DEC 14<br>DEC 30<br>-      | JAN 27<br>-<br>-           | -<br>-<br>-                | >365<br>>365<br>>365    | >365<br>>365<br>>365 | 321<br>365<br>365  | 1<br>0<br>0                       |  |
| PUNTA GORDA 4 ENE         | 36<br>32<br>28                | -<br>-<br>-                | FEB 01<br>DEC 11<br>-      | MAR 07<br>FEB 12<br>JAN 25 | NOV 26<br>DEC 16<br>JAN 15 | JAN 01<br>FEB 16<br>-      | -<br>-<br>-                | >365<br>>365<br>>365    | 326<br>346<br>>365   | 289<br>346<br>>365 | 1<br>0<br>0                       |  |
| QUINCY 3 SSW              | 36<br>32<br>28                | MAR 09<br>FEB 18<br>JAN 21 | MAR 24<br>MAR 08<br>FEB 15 | APR 08<br>MAR 26<br>MAR 13 | OCT 26<br>NOV 02<br>NOV 14 | NOV 08<br>NOV 19<br>DEC 05 | NOV 20<br>DEC 06<br>DEC 28 | 248<br>283<br>328       | 228<br>256<br>293    | 208<br>228<br>261  | 12<br>7<br>4                      |  |
| SAINT LEO                 | 36<br>32<br>28                | JAN 24<br>-<br>-           | FEB 19<br>JAN 29<br>JAN 03 | MAR 17<br>FEB 23<br>FEB 14 | NOV 13<br>NOV 27<br>DEC 17 | DEC 08<br>DEC 27<br>FEB 06 | JAN 03<br>-<br>-           | 331<br>328<br>>365      | 291<br>328<br>>365   | 252<br>305<br>332  | 3<br>1<br>0                       |  |
| SAINT MARKS 6 SE          | 36<br>32<br>28                | FEB 27<br>FEB 11<br>JAN 13 | MAR 16<br>MAR 04<br>FEB 08 | APR 01<br>MAR 26<br>MAR 06 | OCT 29<br>NOV 02<br>NOV 19 | NOV 13<br>NOV 24<br>DEC 09 | NOV 29<br>DEC 15<br>DEC 31 | 267<br>294<br>340       | 242<br>264<br>303    | 217<br>234<br>275  | 10<br>5<br>3                      |  |
| ST PETERSBURG             | 36<br>32<br>28                | -<br>-<br>-                | JAN 13<br>-<br>-           | FEB 18<br>JAN 23<br>-      | DEC 06<br>JAN 02<br>-      | JAN 21<br>-<br>-           | -<br>-<br>-                | >365<br>>365<br>>365    | >365<br>>365<br>>365 | 325<br>365<br>365  | 1<br>0<br>0                       |  |
| SANFORD EXP STATION       | 36<br>32<br>28                | JAN 30<br>-<br>-           | FEB 21<br>JAN 28<br>-      | MAR 14<br>MAR 04<br>FEB 05 | NOV 16<br>DEC 03<br>DEC 22 | DEC 12<br>JAN 02<br>-      | JAN 07<br>-<br>-           | 324<br>>365<br>>365     | 293<br>343<br>365    | 263<br>299<br>353  | 3<br>1<br>0                       |  |
| STUART 1 N                | 36<br>32<br>28                | -<br>-<br>-                | JAN 25<br>DEC 22<br>-      | FEB 26<br>FEB 14<br>JAN 21 | DEC 11<br>DEC 23<br>JAN 21 | JAN 10<br>FEB 11<br>-      | -<br>-<br>-                | >365<br>>365<br>>365    | >365<br>>365<br>>365 | 308<br>365<br>365  | 1<br>0<br>0                       |  |
| TALLAHASSEE WSO           | 36<br>32<br>28                | MAR 08<br>FEB 17<br>JAN 11 | MAR 26<br>MAR 12<br>FEB 17 | APR 12<br>APR 05<br>MAR 25 | OCT 20<br>OCT 28<br>NOV 12 | NOV 04<br>NOV 14<br>NOV 28 | NOV 19<br>DEC 02<br>DEC 14 | 248<br>278<br>329       | 222<br>246<br>283    | 197<br>214<br>238  | 14<br>9<br>5                      |  |
| TAMiami TRL 40 MI BEND    | 36<br>32<br>28                | -<br>-<br>-                | DEC 15<br>-<br>-           | FEB 17<br>JAN 07<br>-      | DEC 17<br>JAN 17<br>-      | FEB 25<br>-<br>-           | -<br>-<br>-                | >365<br>>365<br>>365    | >365<br>>365<br>>365 | >365<br>0<br>0     | 0<br>0<br>0                       |  |
| TAMPA WSO                 | 36<br>32<br>28                | JAN 10<br>-<br>-           | FEB 09<br>JAN 28<br>-      | MAR 11<br>FEB 25<br>JAN 31 | NOV 15<br>DEC 03<br>DEC 21 | DEC 08<br>JAN 03<br>-      | DEC 30<br>-<br>-           | 336<br>365<br>365       | 301<br>338<br>365    | 265<br>305<br>>365 | 2<br>1<br>0                       |  |
| TARPON SPGS SEWAGE PL     | 36<br>32<br>28                | JAN 14<br>-<br>-           | FEB 11<br>JAN 27<br>-      | MAR 12<br>FEB 22<br>FEB 03 | NOV 18<br>DEC 02<br>DEC 20 | DEC 10<br>JAN 10<br>-      | JAN 02<br>-<br>-           | 338<br>>365<br>>365     | 300<br>365<br>365    | 266<br>310<br>>365 | 3<br>1<br>0                       |  |
| TAVERNIER                 | 36<br>32<br>28                | -<br>-<br>-                | -<br>-<br>-                | -<br>-<br>-                | -<br>-<br>-                | -<br>-<br>-                | -<br>-<br>-                | >365<br>>365<br>>365    | >365<br>>365<br>>365 | >365<br>0<br>0     | 0<br>0<br>0                       |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP. THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |      |      | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|--------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|------|------|-----------------------------------|--|
|                           |                                | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |      |      |                                   |  |
|                           |                                | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50   | 90   |                                   |  |
| <b>FLORIDA</b>            |                                |                            |        |        |                            |        |        |                            |      |      |                                   |  |
| TITUSVILLE 3 NW           | 36                             | FEB 08                     | MAR 05 | MAR 30 | NOV 13                     | DEC 10 | JAN 09 | 321                        | 280  | 242  | 4                                 |  |
|                           | 32                             | DEC 18                     | FEB 04 | MAR 13 | DEC 05                     | DEC 31 | -      | >365                       | 336  | 288  | 1                                 |  |
|                           | 28                             | -                          | JAN 07 | FEB 18 | DEC 22                     | FEB 05 | -      | >365                       | >365 | 328  | 0                                 |  |
| VERO BEACH 4 W            | 36                             | -                          | JAN 27 | MAR 01 | DEC 05                     | DEC 30 | -      | >365                       | 339  | 302  | 2                                 |  |
|                           | 32                             | -                          | JAN 08 | FEB 20 | DEC 16                     | JAN 23 | -      | >365                       | >365 | 314  | 0                                 |  |
|                           | 28                             | -                          | -      | JAN 21 | JAN 02                     | -      | -      | >365                       | >365 | >365 | 0                                 |  |
| WAUCHULA 2 N              | 36                             | FEB 02                     | FEB 26 | MAR 21 | NOV 09                     | DEC 06 | JAN 01 | 311                        | 282  | 253  | 4                                 |  |
|                           | 32                             | JAN 07                     | FEB 05 | MAR 02 | NOV 23                     | DEC 23 | JAN 31 | >365                       | 320  | 292  | 2                                 |  |
|                           | 28                             | -                          | JAN 12 | FEB 20 | DEC 09                     | JAN 13 | -      | >365                       | >365 | 314  | 1                                 |  |
| WINTER HAVEN              | 36                             | JAN 23                     | FEB 21 | MAR 22 | NOV 18                     | DEC 13 | JAN 07 | 328                        | 294  | 261  | 3                                 |  |
|                           | 32                             | -                          | JAN 26 | MAR 02 | DEC 06                     | JAN 06 | -      | >365                       | 344  | 305  | 1                                 |  |
|                           | 28                             | -                          | -      | FEB 14 | DEC 19                     | -      | -      | >365                       | >365 | 340  | 0                                 |  |
| <b>GEORGIA</b>            |                                |                            |        |        |                            |        |        |                            |      |      |                                   |  |
| ALBANY 3 SE               | 36                             | MAR 10                     | MAR 26 | APR 11 | OCT 19                     | NOV 01 | NOV 15 | 242                        | 220  | 197  | 17                                |  |
|                           | 32                             | FEB 21                     | MAR 12 | MAR 31 | OCT 26                     | NOV 13 | DEC 01 | 275                        | 245  | 215  | 11                                |  |
|                           | 28                             | JAN 27                     | FEB 25 | MAR 27 | NOV 07                     | NOV 25 | DEC 13 | 311                        | 272  | 233  | 7                                 |  |
| ALMA FAA AIRPORT          | 36                             | MAR 08                     | MAR 25 | APR 12 | OCT 22                     | NOV 04 | NOV 18 | 246                        | 223  | 201  | 15                                |  |
|                           | 32                             | FEB 26                     | MAR 13 | MAR 28 | OCT 27                     | NOV 12 | NOV 29 | 268                        | 243  | 219  | 10                                |  |
|                           | 28                             | FEB 11                     | MAR 02 | MAR 21 | NOV 03                     | NOV 26 | DEC 18 | 296                        | 268  | 240  | 5                                 |  |
| AMERICUS 4 ENE            | 36                             | MAR 18                     | MAR 30 | APR 11 | OCT 18                     | NOV 01 | NOV 15 | 231                        | 215  | 199  | 16                                |  |
|                           | 32                             | MAR 02                     | MAR 18 | APR 02 | OCT 27                     | NOV 10 | NOV 23 | 258                        | 236  | 215  | 11                                |  |
|                           | 28                             | FEB 10                     | MAR 02 | MAR 21 | NOV 08                     | NOV 25 | DEC 12 | 295                        | 268  | 240  | 6                                 |  |
| ATHENS WSO                | 36                             | MAR 24                     | APR 07 | APR 21 | OCT 14                     | OCT 29 | NOV 13 | 219                        | 204  | 190  | 23                                |  |
|                           | 32                             | MAR 16                     | MAR 28 | APR 10 | OCT 25                     | NOV 08 | NOV 22 | 243                        | 224  | 204  | 15                                |  |
|                           | 28                             | FEB 14                     | MAR 09 | APR 01 | OCT 31                     | NOV 14 | NOV 27 | 272                        | 249  | 226  | 9                                 |  |
| AUGUSTA WSO               | 36                             | MAR 28                     | APR 11 | APR 26 | OCT 12                     | OCT 24 | NOV 05 | 211                        | 195  | 179  | 22                                |  |
|                           | 32                             | MAR 09                     | MAR 28 | APR 15 | OCT 23                     | NOV 06 | NOV 20 | 245                        | 222  | 199  | 16                                |  |
|                           | 28                             | FEB 19                     | MAR 08 | MAR 25 | OCT 29                     | NOV 12 | NOV 27 | 267                        | 248  | 229  | 10                                |  |
| BLAIRSVILLE EXP STA       | 36                             | MAY 01                     | MAY 14 | MAY 28 | SEP 21                     | OCT 04 | OCT 17 | 161                        | 142  | 123  | 39                                |  |
|                           | 32                             | APR 19                     | MAY 05 | MAY 21 | SEP 29                     | OCT 09 | OCT 20 | 175                        | 156  | 138  | 33                                |  |
|                           | 28                             | APR 02                     | APR 21 | MAY 10 | OCT 07                     | OCT 19 | OCT 31 | 205                        | 180  | 156  | 25                                |  |
| BLAKELY                   | 36                             | MAR 05                     | MAR 22 | APR 08 | OCT 26                     | NOV 08 | NOV 20 | 251                        | 230  | 208  | 15                                |  |
|                           | 32                             | FEB 18                     | MAR 09 | MAR 27 | NOV 01                     | NOV 16 | DEC 02 | 278                        | 252  | 226  | 10                                |  |
|                           | 28                             | FEB 01                     | FEB 23 | MAR 16 | NOV 11                     | DEC 02 | DEC 23 | 315                        | 282  | 248  | 5                                 |  |
| BROOKLET 1 W              | 36                             | MAR 10                     | MAR 26 | APR 11 | OCT 19                     | NOV 02 | NOV 16 | 241                        | 221  | 200  | 15                                |  |
|                           | 32                             | FEB 22                     | MAR 11 | MAR 29 | OCT 31                     | NOV 14 | NOV 28 | 268                        | 247  | 226  | 9                                 |  |
|                           | 28                             | JAN 30                     | FEB 21 | MAR 15 | NOV 09                     | NOV 27 | DEC 15 | 311                        | 278  | 245  | 5                                 |  |
| BRUNSWICK                 | 36                             | FEB 21                     | MAR 12 | MAR 31 | NOV 05                     | NOV 24 | DEC 12 | 285                        | 256  | 226  | 8                                 |  |
|                           | 32                             | JAN 24                     | FEB 20 | MAR 18 | NOV 15                     | DEC 04 | DEC 24 | 318                        | 287  | 256  | 4                                 |  |
|                           | 28                             | DEC 29                     | FEB 03 | MAR 09 | NOV 28                     | DEC 24 | JAN 21 | >365                       | 318  | 290  | 2                                 |  |
| BRUNSWICK FAA AP          | 36                             | FEB 25                     | MAR 11 | MAR 25 | NOV 06                     | NOV 24 | DEC 12 | 282                        | 257  | 232  | 8                                 |  |
|                           | 32                             | JAN 30                     | FEB 24 | MAR 20 | NOV 13                     | DEC 03 | DEC 24 | 315                        | 282  | 249  | 4                                 |  |
|                           | 28                             | JAN 08                     | FEB 04 | MAR 03 | NOV 28                     | DEC 25 | JAN 23 | >365                       | 322  | 297  | 2                                 |  |
| CAMILLA                   | 36                             | MAR 13                     | MAR 28 | APR 11 | OCT 18                     | NOV 01 | NOV 16 | 238                        | 218  | 198  | 14                                |  |
|                           | 32                             | FEB 24                     | MAR 12 | MAR 28 | OCT 27                     | NOV 13 | NOV 30 | 271                        | 245  | 220  | 9                                 |  |
|                           | 28                             | JAN 30                     | FEB 23 | MAR 18 | NOV 09                     | NOV 29 | DEC 20 | 312                        | 279  | 245  | 5                                 |  |
| CARROLLTON                | 36                             | APR 08                     | APR 23 | MAY 07 | OCT 06                     | OCT 17 | OCT 27 | 196                        | 176  | 157  | 27                                |  |
|                           | 32                             | MAR 25                     | APR 06 | APR 17 | OCT 12                     | OCT 28 | NOV 12 | 222                        | 205  | 187  | 20                                |  |
|                           | 28                             | MAR 05                     | MAR 23 | APR 09 | OCT 24                     | NOV 07 | NOV 21 | 251                        | 229  | 206  | 13                                |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP. THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|--------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                                | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                                | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| GEORGIA                   |                                |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| CARTERSVILLE              | 36<br>32<br>28                 | APR 07<br>MAR 28<br>MAR 09 | APR 26<br>APR 13<br>MAR 28 | MAY 14<br>APR 28<br>APR 17 | OCT 02<br>OCT 07<br>OCT 21 | OCT 16<br>OCT 22<br>NOV 04 | OCT 29<br>NOV 06<br>NOV 19 | 196<br>215<br>243       | 172<br>192<br>220 | 149<br>169<br>197 | 27<br>20<br>13                    |  |
| CEDARTOWN                 | 36<br>32<br>28                 | APR 08<br>MAR 27<br>MAR 10 | APR 22<br>APR 09<br>MAR 25 | MAY 05<br>APR 21<br>APR 10 | OCT 03<br>OCT 11<br>OCT 25 | OCT 16<br>OCT 25<br>NOV 07 | OCT 28<br>NOV 08<br>NOV 20 | 195<br>214<br>246       | 177<br>198<br>226 | 158<br>182<br>205 | 27<br>20<br>14                    |  |
| CLAYTON 1 W               | 36<br>32<br>28                 | APR 17<br>APR 04<br>MAR 24 | MAY 04<br>MAY 14<br>APR 09 | MAY 20<br>APR 14<br>APR 24 | SEP 29<br>OCT 06<br>OCT 12 | OCT 10<br>OCT 21<br>OCT 29 | OCT 21<br>NOV 04<br>NOV 14 | 180<br>205<br>227       | 159<br>179<br>203 | 138<br>153<br>179 | 33<br>26<br>17                    |  |
| COLUMBUS HSO              | 36<br>32<br>28                 | MAR 22<br>MAR 03<br>FEB 12 | APR 03<br>MAR 21<br>MAR 04 | APR 16<br>APR 08<br>MAR 23 | OCT 20<br>OCT 27<br>NOV 02 | NOV 03<br>NOV 09<br>NOV 24 | NOV 17<br>NOV 22<br>DEC 16 | 229<br>256<br>294       | 213<br>232<br>265 | 196<br>208<br>236 | 19<br>13<br>7                     |  |
| CORNELIA                  | 36<br>32<br>28                 | APR 08<br>MAR 27<br>MAR 13 | APR 28<br>APR 18<br>MAR 28 | MAY 18<br>MAY 10<br>APR 12 | OCT 01<br>OCT 08<br>OCT 18 | OCT 15<br>OCT 21<br>NOV 01 | OCT 28<br>NOV 03<br>NOV 14 | 196<br>213<br>236       | 169<br>185<br>217 | 142<br>157<br>198 | 29<br>22<br>14                    |  |
| COVINGTON                 | 36<br>32<br>28                 | MAR 30<br>MAR 18<br>FEB 24 | APR 13<br>APR 01<br>MAR 15 | APR 26<br>APR 15<br>APR 02 | OCT 12<br>OCT 21<br>OCT 29 | OCT 23<br>NOV 03<br>NOV 12 | NOV 03<br>NOV 16<br>NOV 26 | 207<br>231<br>261       | 192<br>215<br>242 | 178<br>199<br>222 | 23<br>16<br>10                    |  |
| CUTHBERT                  | 36<br>32<br>28                 | MAR 12<br>FEB 22<br>FEB 03 | MAR 25<br>MAR 13<br>FEB 24 | APR 07<br>MAR 31<br>MAR 18 | OCT 26<br>NOV 02<br>NOV 13 | NOV 07<br>NOV 17<br>DEC 03 | NOV 20<br>DEC 02<br>DEC 23 | 243<br>274<br>311       | 226<br>249<br>281 | 210<br>223<br>250 | 14<br>9<br>4                      |  |
| DAHLONEGA                 | 36<br>32<br>28                 | APR 08<br>MAR 23<br>MAR 09 | APR 25<br>APR 25<br>MAR 23 | MAY 12<br>APR 25<br>APR 06 | OCT 05<br>OCT 13<br>OCT 28 | OCT 18<br>OCT 28<br>NOV 11 | OCT 31<br>NOV 12<br>NOV 24 | 197<br>225<br>250       | 175<br>202<br>232 | 153<br>178<br>214 | 29<br>21<br>14                    |  |
| DALTON                    | 36<br>32<br>28                 | APR 03<br>MAR 23<br>MAR 01 | APR 17<br>APR 05<br>MAR 20 | APR 30<br>APR 19<br>APR 07 | OCT 08<br>OCT 15<br>OCT 25 | OCT 20<br>OCT 31<br>NOV 10 | NOV 02<br>NOV 15<br>NOV 26 | 204<br>227<br>255       | 186<br>207<br>235 | 168<br>168<br>214 | 28<br>21<br>13                    |  |
| DOUGLAS 2 NNE             | 36<br>32<br>28                 | MAR 06<br>FEB 19<br>JAN 27 | MAR 24<br>MAR 10<br>FEB 19 | APR 11<br>MAR 30<br>MAR 15 | OCT 22<br>OCT 28<br>NOV 08 | NOV 06<br>NOV 14<br>NOV 27 | NOV 21<br>DEC 01<br>DEC 17 | 251<br>275<br>310       | 227<br>248<br>280 | 202<br>221<br>250 | 17<br>11<br>6                     |  |
| DUBLIN 3 S                | 36<br>32<br>28                 | MAR 19<br>MAR 06<br>FEB 12 | APR 04<br>MAR 21<br>MAR 05 | APR 20<br>APR 05<br>MAR 26 | OCT 11<br>OCT 23<br>NOV 02 | OCT 25<br>NOV 06<br>NOV 17 | NOV 08<br>NOV 19<br>DEC 02 | 223<br>249<br>277       | 203<br>229<br>256 | 183<br>209<br>235 | 21<br>14<br>9                     |  |
| EASTMAN 1 W               | 36<br>32<br>28                 | MAR 12<br>FEB 24<br>FEB 04 | MAR 27<br>MAR 13<br>FEB 26 | APR 11<br>MAR 31<br>MAR 20 | OCT 17<br>OCT 31<br>NOV 09 | NOV 01<br>NOV 12<br>NOV 27 | NOV 16<br>NOV 25<br>DEC 15 | 239<br>265<br>304       | 218<br>243<br>273 | 197<br>221<br>242 | 17<br>11<br>6                     |  |
| EXPERIMENT                | 36<br>32<br>28                 | MAR 29<br>MAR 13<br>FEB 23 | APR 09<br>MAR 28<br>MAR 14 | APR 20<br>APR 12<br>APR 01 | OCT 12<br>OCT 26<br>OCT 31 | OCT 25<br>NOV 08<br>NOV 14 | NOV 08<br>NOV 21<br>NOV 27 | 213<br>244<br>265       | 199<br>224<br>244 | 185<br>203<br>223 | 21<br>14<br>8                     |  |
| FITZGERALD                | 36<br>32<br>28                 | MAR 02<br>FEB 10<br>JAN 24 | MAR 18<br>MAR 02<br>FEB 18 | APR 04<br>MAR 22<br>MAR 15 | OCT 27<br>NOV 01<br>NOV 19 | NOV 08<br>NOV 16<br>DEC 10 | NOV 20<br>DEC 01<br>DEC 30 | 258<br>281<br>325       | 234<br>259<br>294 | 211<br>236<br>262 | 12<br>7<br>3                      |  |
| FOLKSTON 9 SW             | 36<br>32<br>28                 | MAR 04<br>FEB 18<br>JAN 28 | MAR 21<br>MAR 09<br>FEB 18 | APR 07<br>MAR 27<br>MAR 11 | OCT 24<br>NOV 03<br>NOV 11 | NOV 09<br>NOV 21<br>DEC 03 | NOV 26<br>DEC 08<br>DEC 26 | 258<br>281<br>316       | 233<br>256<br>288 | 208<br>231<br>259 | 11<br>7<br>3                      |  |
| FORT GAINES               | 36<br>32<br>28                 | MAR 15<br>FEB 26<br>FEB 03 | MAR 30<br>MAR 14<br>FEB 25 | APR 14<br>MAR 30<br>MAR 20 | OCT 24<br>OCT 29<br>NOV 06 | NOV 06<br>NOV 12<br>NOV 27 | NOV 19<br>NOV 26<br>DEC 20 | 242<br>262<br>309       | 221<br>242<br>274 | 199<br>222<br>243 | 15<br>10<br>5                     |  |
| FORT STEWART              | 36<br>32<br>28                 | MAR 05<br>FEB 21<br>FEB 04 | MAR 24<br>MAR 10<br>FEB 25 | APR 11<br>MAR 27<br>MAR 19 | OCT 26<br>NOV 01<br>NOV 08 | NOV 08<br>NOV 18<br>NOV 30 | NOV 22<br>DEC 05<br>DEC 22 | 253<br>275<br>306       | 229<br>252<br>277 | 205<br>229<br>247 | 13<br>8<br>4                      |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE / FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|-------------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                     |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                     |  |
| GEORGIA                   |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                     |  |
| GAINESVILLE               | 36<br>32<br>28                | APR 02<br>MAR 19<br>MAR 01 | APR 16<br>APR 03<br>MAR 18 | MAY 01<br>APR 18<br>APR 03 | OCT 10<br>OCT 23<br>OCT 30 | OCT 24<br>NOV 06<br>NOV 12 | NOV 07<br>NOV 20<br>NOV 26 | 211<br>235<br>262          | 190<br>216<br>239 | 169<br>198<br>217 | 26<br>19<br>11                      |  |
| GLENNVILLE                | 36<br>32<br>28                | MAR 08<br>FEB 22<br>JAN 30 | MAR 23<br>MAR 11<br>FEB 21 | APR 08<br>MAR 28<br>MAR 15 | OCT 26<br>NOV 03<br>NOV 09 | NOV 08<br>NOV 18<br>DEC 01 | NOV 22<br>DEC 04<br>DEC 23 | 251<br>274<br>313          | 229<br>252<br>282 | 208<br>230<br>251 | 13<br>8<br>4                        |  |
| HARTWELL                  | 36<br>32<br>28                | MAR 21<br>MAR 12<br>FEB 24 | APR 08<br>MAR 27<br>MAR 12 | APR 26<br>APR 12<br>MAR 28 | OCT 16<br>OCT 25<br>OCT 31 | OCT 30<br>NOV 06<br>NOV 15 | NOV 14<br>NOV 19<br>NOV 30 | 226<br>243<br>267          | 205<br>223<br>247 | 184<br>203<br>227 | 23<br>16<br>9                       |  |
| HAWKINSVILLE              | 36<br>32<br>28                | MAR 22<br>MAR 04<br>FEB 11 | APR 04<br>MAR 19<br>MAR 04 | APR 17<br>APR 02<br>MAR 25 | OCT 12<br>OCT 22<br>OCT 31 | OCT 27<br>NOV 06<br>NOV 14 | NOV 11<br>NOV 20<br>NOV 29 | 221<br>249<br>281          | 205<br>231<br>255 | 189<br>214<br>228 | 21<br>15<br>9                       |  |
| JASPER 1 NNW              | 36<br>32<br>28                | APR 08<br>MAR 23<br>MAR 11 | APR 26<br>APR 12<br>MAR 29 | MAY 15<br>MAY 02<br>APR 16 | OCT 04<br>OCT 11<br>OCT 20 | OCT 17<br>OCT 25<br>NOV 04 | OCT 31<br>NOV 07<br>NOV 19 | 197<br>214<br>243          | 173<br>195<br>219 | 150<br>176<br>195 | 26<br>19<br>13                      |  |
| LA FAYETTE                | 36<br>32<br>28                | APR 16<br>APR 04<br>MAR 15 | APR 30<br>APR 16<br>MAR 31 | MAY 14<br>APR 29<br>APR 16 | OCT 03<br>OCT 08<br>OCT 22 | OCT 14<br>OCT 22<br>NOV 05 | OCT 25<br>NOV 04<br>NOV 19 | 186<br>207<br>240          | 166<br>188<br>218 | 146<br>168<br>196 | 31<br>24<br>17                      |  |
| LA GRANGE                 | 36<br>32<br>28                | APR 04<br>MAR 24<br>FEB 27 | APR 18<br>APR 06<br>MAR 19 | MAY 01<br>APR 18<br>APR 07 | OCT 07<br>OCT 16<br>OCT 27 | OCT 20<br>OCT 30<br>NOV 11 | NOV 02<br>NOV 14<br>NOV 26 | 204<br>225<br>263          | 185<br>207<br>237 | 165<br>188<br>211 | 23<br>17<br>11                      |  |
| LOUISVILLE 3 S            | 36<br>32<br>28                | MAR 21<br>MAR 04<br>FEB 11 | APR 03<br>MAR 22<br>MAR 05 | APR 16<br>APR 10<br>MAR 26 | OCT 15<br>OCT 24<br>NOV 03 | OCT 28<br>NOV 06<br>NOV 17 | NOV 09<br>NOV 20<br>DEC 02 | 225<br>251<br>283          | 207<br>228<br>257 | 189<br>206<br>231 | 18<br>12<br>7                       |  |
| LUMBER CITY               | 36<br>32<br>28                | MAR 17<br>MAR 01<br>FEB 12 | MAR 31<br>MAR 15<br>MAR 02 | APR 15<br>MAR 29<br>MAR 20 | OCT 12<br>OCT 23<br>OCT 29 | OCT 26<br>NOV 05<br>NOV 18 | NOV 10<br>NOV 18<br>DEC 07 | 225<br>255<br>285          | 208<br>235<br>260 | 192<br>214<br>235 | 21<br>14<br>8                       |  |
| MACON WSO                 | 36<br>32<br>28                | MAR 18<br>FEB 27<br>FEB 08 | APR 01<br>MAR 17<br>MAR 02 | APR 14<br>APR 04<br>MAR 24 | OCT 14<br>OCT 25<br>NOV 05 | OCT 30<br>NOV 08<br>NOV 22 | NOV 14<br>NOV 22<br>DEC 09 | 230<br>260<br>291          | 211<br>236<br>264 | 192<br>212<br>237 | 18<br>12<br>6                       |  |
| MILLEDGEVILLE             | 36<br>32<br>28                | MAR 31<br>MAR 15<br>FEB 20 | APR 13<br>MAR 30<br>MAR 11 | APR 27<br>APR 15<br>MAR 31 | OCT 11<br>OCT 21<br>OCT 29 | OCT 23<br>NOV 03<br>NOV 13 | NOV 05<br>NOV 15<br>NOV 28 | 211<br>234<br>270          | 192<br>217<br>246 | 174<br>200<br>223 | 27<br>19<br>12                      |  |
| MILLEN 4 N                | 36<br>32<br>28                | MAR 26<br>MAR 09<br>FEB 19 | APR 12<br>MAR 27<br>MAR 13 | APR 30<br>APR 15<br>APR 04 | OCT 11<br>OCT 12<br>OCT 24 | OCT 24<br>OCT 29<br>NOV 12 | NOV 07<br>NOV 14<br>NOV 30 | 219<br>243<br>269          | 194<br>215<br>243 | 170<br>187<br>217 | 20<br>14<br>9                       |  |
| MOULTRIE 2 ESE            | 36<br>32<br>28                | MAR 04<br>FEB 13<br>JAN 24 | MAR 20<br>MAR 05<br>FEB 19 | APR 04<br>MAR 25<br>MAR 16 | OCT 22<br>OCT 29<br>NOV 10 | NOV 03<br>NOV 15<br>NOV 27 | NOV 15<br>DEC 02<br>DEC 14 | 248<br>280<br>312          | 227<br>254<br>280 | 207<br>227<br>249 | 13<br>8<br>4                        |  |
| NEWNAN                    | 36<br>32<br>28                | MAR 29<br>MAR 14<br>FEB 21 | APR 13<br>MAR 28<br>MAR 15 | APR 29<br>APR 12<br>APR 06 | OCT 08<br>OCT 18<br>OCT 30 | OCT 23<br>NOV 04<br>NOV 13 | NOV 06<br>NOV 20<br>NOV 28 | 210<br>242<br>269          | 191<br>220<br>242 | 172<br>197<br>216 | 22<br>15<br>9                       |  |
| ROME                      | 36<br>32<br>28                | APR 03<br>MAR 29<br>MAR 05 | APR 20<br>APR 09<br>MAR 21 | MAY 06<br>APR 21<br>APR 07 | OCT 08<br>OCT 12<br>OCT 23 | OCT 20<br>OCT 26<br>NOV 07 | NOV 01<br>NOV 09<br>NOV 22 | 202<br>215<br>250          | 182<br>199<br>230 | 163<br>183<br>209 | 27<br>20<br>13                      |  |
| SAVANNAH WSO              | 36<br>32<br>28                | MAR 06<br>FEB 17<br>FEB 03 | MAR 24<br>MAR 10<br>FEB 24 | APR 11<br>MAR 30<br>MAR 18 | OCT 26<br>OCT 31<br>NOV 07 | NOV 08<br>NOV 15<br>NOV 28 | NOV 20<br>DEC 01<br>DEC 20 | 251<br>274<br>305          | 228<br>250<br>276 | 205<br>226<br>247 | 14<br>9<br>4                        |  |
| SILOAM                    | 36<br>32<br>28                | MAR 28<br>MAR 14<br>FEB 25 | APR 14<br>MAR 30<br>MAR 16 | MAY 01<br>APR 15<br>APR 04 | OCT 11<br>OCT 22<br>NOV 01 | OCT 23<br>NOV 06<br>NOV 14 | NOV 04<br>NOV 20<br>NOV 28 | 209<br>238<br>263          | 192<br>220<br>243 | 174<br>202<br>223 | 21<br>14<br>8                       |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| <b>GEORGIA</b>            |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| SWAINSBORO                | 36<br>32<br>28                | MAR 14<br>MAR 03<br>FEB 10 | MAR 31<br>MAR 22<br>MAR 04 | APR 18<br>APR 10<br>MAR 25 | OCT 13<br>OCT 26<br>NOV 03 | OCT 28<br>NOV 09<br>NOV 21 | NOV 12<br>NOV 22<br>DEC 10 | 235<br>255<br>293       | 210<br>231<br>262 | 185<br>207<br>230 | 17<br>11<br>6                     |  |
| TALBOTTON                 | 36<br>32<br>28                | MAR 29<br>MAR 15<br>FEB 16 | APR 14<br>APR 01<br>MAR 12 | APR 30<br>APR 17<br>APR 05 | OCT 09<br>OCT 17<br>OCT 29 | OCT 23<br>NOV 01<br>NOV 12 | NOV 06<br>NOV 15<br>NOV 26 | 215<br>234<br>269       | 191<br>214<br>244 | 167<br>193<br>220 | 22<br>15<br>10                    |  |
| THOMASVILLE 4 SE          | 36<br>32<br>28                | MAR 09<br>FEB 22<br>FEB 04 | MAR 26<br>MAR 12<br>FEB 24 | APR 11<br>MAR 30<br>MAR 17 | OCT 21<br>OCT 27<br>NOV 05 | NOV 05<br>NOV 11<br>NOV 27 | NOV 19<br>NOV 26<br>DEC 20 | 246<br>267<br>308       | 223<br>243<br>275 | 200<br>220<br>246 | 14<br>9<br>5                      |  |
| TIFTON EXP STATION        | 36<br>32<br>28                | MAR 05<br>FEB 21<br>FEB 02 | MAR 22<br>MAR 10<br>FEB 22 | APR 09<br>MAR 28<br>MAR 15 | OCT 24<br>OCT 31<br>NOV 11 | NOV 07<br>NOV 18<br>NOV 30 | NOV 21<br>DEC 06<br>DEC 19 | 252<br>280<br>307       | 229<br>252<br>280 | 206<br>224<br>252 | 15<br>9<br>5                      |  |
| TOCCOA                    | 36<br>32<br>28                | MAR 31<br>MAR 16<br>MAR 16 | APR 17<br>APR 01<br>APR 06 | MAY 05<br>APR 17<br>APR 14 | OCT 06<br>OCT 17<br>OCT 30 | OCT 21<br>OCT 31<br>NOV 14 | NOV 05<br>NOV 13<br>NOV 28 | 209<br>234<br>265       | 186<br>212<br>241 | 162<br>190<br>218 | 24<br>17<br>10                    |  |
| WARRENTON                 | 36<br>32<br>28                | MAR 27<br>MAR 09<br>FEB 18 | APR 09<br>MAR 25<br>MAR 11 | APR 21<br>APR 09<br>APR 01 | OCT 13<br>OCT 25<br>NOV 02 | OCT 28<br>NOV 07<br>NOV 19 | NOV 12<br>NOV 21<br>DEC 05 | 222<br>246<br>275       | 201<br>227<br>251 | 181<br>208<br>228 | 22<br>15<br>9                     |  |
| WASHINGTON                | 36<br>32<br>28                | APR 04<br>MAR 20<br>FEB 20 | APR 19<br>APR 04<br>MAR 13 | MAY 03<br>APR 19<br>APR 03 | OCT 10<br>OCT 12<br>OCT 23 | OCT 22<br>OCT 29<br>NOV 10 | NOV 04<br>NOV 15<br>NOV 27 | 205<br>231<br>272       | 186<br>208<br>241 | 166<br>184<br>210 | 27<br>20<br>13                    |  |
| WAYCROSS 4 NE             | 36<br>32<br>28                | MAR 14<br>FEB 24<br>FEB 09 | APR 03<br>MAR 16<br>MAR 05 | APR 22<br>APR 05<br>MAR 28 | OCT 15<br>OCT 22<br>NOV 04 | OCT 30<br>NOV 06<br>NOV 21 | NOV 14<br>NOV 21<br>DEC 08 | 236<br>257<br>292       | 209<br>234<br>261 | 183<br>212<br>229 | 18<br>12<br>7                     |  |
| WEST POINT                | 36<br>32<br>28                | MAR 29<br>MAR 14<br>FEB 23 | APR 11<br>MAR 27<br>MAR 11 | APR 25<br>APR 10<br>MAR 27 | OCT 11<br>OCT 24<br>OCT 28 | OCT 24<br>NOV 06<br>NOV 13 | NOV 07<br>NOV 18<br>NOV 30 | 211<br>243<br>267       | 195<br>222<br>247 | 179<br>202<br>226 | 24<br>17<br>10                    |  |
| <b>IDAHO</b>              |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ABERDEEN EXP STATION      | 36<br>32<br>28                | JUN 01<br>MAY 12<br>APR 27 | JUN 21<br>JUN 02<br>MAY 13 | JUL 12<br>JUN 23<br>MAY 29 | AUG 17<br>AUG 31<br>SEP 12 | AUG 31<br>SEP 12<br>SEP 25 | SEP 14<br>SEP 25<br>OCT 08 | 97<br>121<br>158        | 70<br>101<br>134  | 43<br>82<br>110   | 63<br>54<br>42                    |  |
| AMERICAN FALLS 1 SW       | 36<br>32<br>28                | MAY 14<br>APR 24<br>APR 15 | JUN 08<br>MAY 16<br>MAY 03 | JUL 03<br>JUN 07<br>MAY 20 | AUG 28<br>SEP 09<br>SEP 20 | SEP 12<br>SEP 25<br>OCT 07 | SEP 26<br>OCT 10<br>OCT 25 | 126<br>164<br>185       | 95<br>131<br>157  | 64<br>98<br>129   | 54<br>44<br>33                    |  |
| ANDERSON DAM              | 36<br>32<br>28                | MAY 03<br>APR 19<br>APR 03 | MAY 21<br>MAY 06<br>APR 20 | JUN 08<br>MAY 23<br>MAY 08 | SEP 16<br>SEP 25<br>OCT 07 | OCT 01<br>OCT 12<br>OCT 25 | OCT 15<br>OCT 29<br>NOV 12 | 156<br>186<br>210       | 132<br>158<br>187 | 108<br>131<br>164 | 50<br>39<br>27                    |  |
| ARCO 3 SW                 | 36<br>32<br>28                | JUN 11<br>MAY 22<br>APR 28 | JUN 30<br>JUN 12<br>MAY 14 | JUL 18<br>JUL 04<br>AUG 31 | AUG 11<br>AUG 24<br>SEP 15 | AUG 26<br>SEP 05<br>SEP 18 | SEP 11<br>SEP 18<br>OCT 01 | 82<br>110<br>148        | 57<br>84<br>123   | 33<br>58<br>99    | 66<br>58<br>50                    |  |
| ARROWROCK DAM             | 36<br>32<br>28                | MAY 05<br>APR 17<br>MAR 29 | MAY 20<br>MAY 03<br>APR 16 | JUN 05<br>MAY 19<br>MAY 03 | SEP 12<br>SEP 22<br>OCT 01 | SEP 27<br>OCT 08<br>OCT 19 | OCT 13<br>OCT 24<br>NOV 06 | 150<br>182<br>212       | 129<br>157<br>185 | 108<br>132<br>158 | 51<br>40<br>27                    |  |
| ASHTON 1 S                | 36<br>32<br>28                | JUN 15<br>MAY 23<br>APR 26 | JUL 01<br>JUN 15<br>MAY 20 | JUL 17<br>JUL 07<br>JUN 14 | AUG 06<br>AUG 19<br>AUG 29 | AUG 20<br>SEP 04<br>SEP 15 | SEP 03<br>SEP 20<br>OCT 03 | 71<br>108<br>151        | 49<br>81<br>117   | 28<br>53<br>84    | 58<br>58<br>47                    |  |
| AVERY R S NO 2            | 36<br>32<br>28                | MAY 14<br>APR 27<br>APR 05 | JUN 13<br>MAY 21<br>MAY 01 | JUL 12<br>JUN 14<br>MAY 27 | AUG 17<br>SEP 01<br>SEP 19 | SEP 08<br>SEP 22<br>OCT 13 | OCT 01<br>OCT 13<br>NOV 06 | 131<br>157<br>199       | 87<br>123<br>165  | 43<br>90<br>131   | 57<br>43<br>25                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE / FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                     |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                     |  |
| IDAHO                     |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                     |  |
| BAYVIEW MODEL BASIN       | 36<br>32<br>28                | MAY 30<br>MAY 09<br>APR 20 | JUN 22<br>MAY 29<br>MAY 05 | JUL 16<br>JUN 18<br>MAY 20 | AUG 17<br>SEP 01<br>SEP 17 | SEP 01<br>SEP 15<br>OCT 03 | SEP 16<br>SEP 28<br>OCT 19 | 99<br>132<br>172        | 70<br>108<br>150  | 41<br>83<br>129   | 59<br>46<br>30                      |  |
| BLISS                     | 36<br>32<br>28                | MAY 09<br>APR 28<br>APR 16 | JUN 03<br>MAY 18<br>MAY 03 | JUN 27<br>JUN 08<br>MAY 21 | AUG 30<br>SEP 10<br>SEP 22 | SEP 14<br>SEP 28<br>OCT 09 | SEP 30<br>OCT 17<br>OCT 25 | 135<br>162<br>185       | 103<br>133<br>158 | 72<br>103<br>130  | 52<br>41<br>30                      |  |
| BOISE WSO                 | 36<br>32<br>28                | MAY 02<br>APR 20<br>APR 07 | MAY 08<br>MAY 08<br>APR 24 | JUN 09<br>MAY 26<br>MAY 11 | SEP 13<br>SEP 22<br>SEP 29 | SEP 27<br>OCT 09<br>OCT 18 | OCT 12<br>OCT 25<br>NOV 07 | 156<br>180<br>205       | 129<br>153<br>176 | 101<br>125<br>148 | 44<br>34<br>22                      |  |
| BONNERS FERRY 1 SW        | 36<br>32<br>28                | MAY 14<br>MAY 02<br>APR 12 | JUN 05<br>MAY 16<br>APR 29 | JUN 27<br>MAY 29<br>MAY 16 | AUG 22<br>SEP 04<br>SEP 20 | SEP 06<br>SEP 19<br>OCT 07 | SEP 22<br>OCT 04<br>OCT 24 | 119<br>145<br>187       | 93<br>126<br>160  | 67<br>106<br>133  | 55<br>43<br>29                      |  |
| BURLEY FAA AIRPORT        | 36<br>32<br>28                | MAY 15<br>APR 26<br>APR 18 | JUN 04<br>MAY 16<br>MAY 04 | JUN 23<br>JUN 05<br>MAY 21 | AUG 24<br>SEP 09<br>SEP 20 | SEP 08<br>SEP 21<br>OCT 05 | SEP 23<br>OCT 03<br>OCT 20 | 120<br>152<br>176       | 96<br>127<br>152  | 72<br>102<br>129  | 56<br>46<br>34                      |  |
| CALDWELL                  | 36<br>32<br>28                | MAY 03<br>APR 15<br>MAR 30 | MAY 19<br>MAY 01<br>APR 16 | JUN 04<br>MAY 17<br>MAY 04 | SEP 04<br>SEP 17<br>OCT 02 | SEP 21<br>OCT 03<br>OCT 17 | OCT 08<br>OCT 18<br>OCT 31 | 152<br>176<br>202       | 125<br>154<br>183 | 98<br>132<br>163  | 47<br>37<br>25                      |  |
| CAMBRIDGE                 | 36<br>32<br>28                | JUN 02<br>MAY 06<br>APR 19 | JUN 20<br>MAY 31<br>MAY 07 | JUL 07<br>JUN 25<br>MAY 25 | AUG 18<br>AUG 27<br>SEP 08 | AUG 31<br>SEP 13<br>SEP 27 | SEP 13<br>SEP 30<br>OCT 15 | 94<br>133<br>172        | 71<br>104<br>142  | 48<br>74<br>112   | 59<br>49<br>37                      |  |
| CASCADE 1 NW              | 36<br>32<br>28                | JUN 18<br>MAY 26<br>MAY 08 | JUL 07<br>JUN 19<br>MAY 30 | JUL 26<br>JUL 12<br>JUN 22 | AUG 03<br>AUG 15<br>AUG 26 | AUG 18<br>SEP 13<br>SEP 13 | SEP 01<br>SEP 21<br>OCT 01 | 67<br>108<br>138        | 41<br>76<br>105   | 14<br>43<br>72    | 70<br>59<br>46                      |  |
| CHALLIS                   | 36<br>32<br>28                | MAY 24<br>MAY 02<br>APR 23 | JUN 13<br>MAY 28<br>MAY 13 | JUL 03<br>JUN 24<br>JUN 02 | AUG 23<br>SEP 04<br>SEP 17 | SEP 05<br>SEP 17<br>OCT 01 | SEP 18<br>SEP 30<br>OCT 16 | 108<br>142<br>165       | 83<br>111<br>141  | 59<br>81<br>116   | 60<br>51<br>42                      |  |
| CHILLY BARTON FLAT        | 36<br>32<br>28                | JUL 01<br>JUN 10<br>MAY 16 | JUL 16<br>JUN 30<br>JUN 11 | AUG 01<br>JUL 20<br>JUL 07 | JUL 31<br>AUG 06<br>AUG 14 | AUG 14<br>AUG 22<br>SEP 01 | AUG 29<br>SEP 07<br>SEP 18 | 56<br>84<br>112         | 28<br>52<br>81    | 0<br>20<br>49     | 78<br>68<br>58                      |  |
| COEUR D'ALENE 1 E         | 36<br>32<br>28                | MAY 04<br>APR 26<br>APR 06 | MAY 26<br>MAY 11<br>APR 22 | JUN 18<br>MAY 26<br>MAY 07 | SEP 04<br>SEP 16<br>SEP 29 | SEP 20<br>OCT 01<br>OCT 20 | OCT 06<br>OCT 17<br>NOV 11 | 144<br>166<br>206       | 116<br>142<br>181 | 88<br>119<br>155  | 50<br>38<br>23                      |  |
| COUNCIL                   | 36<br>32<br>28                | MAY 17<br>APR 30<br>APR 10 | JUN 10<br>MAY 24<br>APR 30 | JUL 05<br>JUN 18<br>MAY 21 | AUG 25<br>SEP 11<br>SEP 20 | SEP 11<br>SEP 28<br>OCT 06 | SEP 27<br>OCT 14<br>OCT 23 | 121<br>153<br>183       | 92<br>125<br>158  | 62<br>98<br>134   | 54<br>44<br>31                      |  |
| DEER FLAT DAM             | 36<br>32<br>28                | MAY 01<br>APR 16<br>MAR 27 | MAY 19<br>MAY 03<br>APR 17 | JUN 06<br>MAY 19<br>MAY 08 | SEP 12<br>SEP 24<br>OCT 06 | SEP 27<br>OCT 09<br>OCT 22 | OCT 11<br>OCT 24<br>NOV 07 | 154<br>182<br>214       | 130<br>159<br>187 | 105<br>135<br>160 | 46<br>35<br>23                      |  |
| DRIGGS                    | 36<br>32<br>28                | JUN 19<br>MAY 30<br>MAY 05 | JUL 03<br>JUN 18<br>MAY 25 | JUL 17<br>JUL 07<br>JUN 14 | AUG 08<br>AUG 18<br>AUG 28 | AUG 24<br>SEP 03<br>SEP 13 | SEP 09<br>SEP 19<br>SEP 29 | 72<br>102<br>140        | 51<br>76<br>110   | 30<br>51<br>81    | 69<br>60<br>50                      |  |
| DUBOIS EXP STATION        | 36<br>32<br>28                | MAY 25<br>MAY 08<br>APR 19 | JUN 16<br>MAY 30<br>MAY 12 | JUL 08<br>JUN 21<br>JUN 04 | AUG 22<br>SEP 10<br>SEP 17 | SEP 07<br>SEP 23<br>OCT 02 | SEP 23<br>OCT 06<br>OCT 18 | 107<br>141<br>166       | 82<br>115<br>143  | 57<br>89<br>119   | 60<br>52<br>43                      |  |
| EMMETT 2 E                | 36<br>32<br>28                | MAY 16<br>APR 24<br>APR 03 | JUN 06<br>MAY 13<br>APR 24 | JUN 26<br>JUN 01<br>MAY 16 | SEP 01<br>SEP 13<br>SEP 28 | SEP 16<br>OCT 01<br>OCT 15 | OCT 01<br>OCT 19<br>NOV 02 | 126<br>171<br>204       | 101<br>141<br>173 | 77<br>110<br>143  | 49<br>38<br>25                      |  |
| FAIRFIELD RANGER STA      | 36<br>32<br>28                | JUN 21<br>JUN 07<br>MAY 07 | JUL 09<br>JUN 23<br>JUN 02 | JUL 27<br>JUL 10<br>JUN 28 | AUG 03<br>AUG 14<br>AUG 31 | AUG 17<br>AUG 31<br>SEP 15 | AUG 30<br>SEP 17<br>SEP 29 | 63<br>93<br>134         | 38<br>68<br>104   | 13<br>42<br>74    | 70<br>61<br>50                      |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| IDAHO                     |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| FENN RANGER STATION       | 36<br>32<br>28                | APR 29<br>APR 13<br>MAR 19 | MAY 19<br>MAY 01<br>APR 11 | JUN 08<br>MAY 18<br>MAY 03 | SEP 06<br>SEP 19<br>OCT 06 | SEP 22<br>OCT 10<br>OCT 25 | OCT 08<br>OCT 30<br>NOV 13 | 151<br>188<br>227       | 126<br>161<br>196 | 100<br>135<br>166 | 51<br>38<br>21                    |  |
| FORT HALL INDIAN AGNCY    | 36<br>32<br>28                | MAY 25<br>MAY 05<br>APR 20 | JUN 13<br>MAY 24<br>MAY 08 | JUL 01<br>JUN 12<br>MAY 26 | AUG 22<br>AUG 30<br>SEP 12 | SEP 04<br>SEP 17<br>SEP 28 | SEP 18<br>OCT 04<br>OCT 14 | 107<br>143<br>165       | 83<br>115<br>143  | 59<br>87<br>120   | 58<br>49<br>38                    |  |
| GARDEN VALLEY RS          | 36<br>32<br>28                | MAY 30<br>MAY 08<br>APR 20 | JUN 21<br>JUN 02<br>MAY 13 | JUL 14<br>JUN 27<br>JUN 05 | AUG 10<br>AUG 28<br>SEP 13 | AUG 29<br>SEP 14<br>SEP 30 | SEP 17<br>OCT 01<br>OCT 17 | 98<br>136<br>167        | 68<br>104<br>139  | 37<br>72<br>110   | 62<br>50<br>36                    |  |
| GLENNS FERRY              | 36<br>32<br>28                | MAY 07<br>APR 27<br>APR 15 | MAY 30<br>MAY 17<br>MAY 01 | JUN 21<br>JUN 06<br>MAY 17 | AUG 28<br>SEP 13<br>SEP 23 | SEP 12<br>SEP 26<br>OCT 07 | SEP 27<br>OCT 09<br>OCT 22 | 135<br>158<br>179       | 105<br>131<br>159 | 75<br>104<br>139  | 51<br>40<br>29                    |  |
| GRACE                     | 36<br>32<br>28                | JUN 11<br>MAY 19<br>APR 28 | JUN 26<br>JUN 08<br>MAY 19 | JUL 12<br>JUN 28<br>JUN 10 | AUG 12<br>AUG 25<br>SEP 09 | AUG 27<br>SEP 09<br>SEP 23 | SEP 11<br>SEP 24<br>OCT 08 | 84<br>116<br>153        | 61<br>92<br>126   | 38<br>69<br>100   | 65<br>56<br>44                    |  |
| GRAND VIEW 2 W            | 36<br>32<br>28                | MAY 02<br>APR 20<br>APR 11 | MAY 24<br>MAY 08<br>APR 27 | JUN 16<br>MAY 26<br>MAY 14 | SEP 02<br>SEP 09<br>SEP 24 | SEP 15<br>SEP 25<br>OCT 09 | SEP 28<br>OCT 11<br>OCT 24 | 141<br>165<br>185       | 113<br>139<br>164 | 84<br>113<br>143  | 51<br>41<br>30                    |  |
| GRANGEVILLE               | 36<br>32<br>28                | MAY 26<br>MAY 07<br>APR 21 | JUN 15<br>MAY 25<br>MAY 08 | JUL 05<br>JUN 12<br>MAY 25 | AUG 25<br>SEP 05<br>SEP 15 | SEP 06<br>SEP 19<br>OCT 03 | SEP 19<br>OCT 03<br>OCT 21 | 107<br>141<br>174       | 83<br>116<br>147  | 58<br>92<br>120   | 57<br>45<br>31                    |  |
| GROUSE                    | 36<br>32<br>28                | JUL 15<br>JUN 26<br>JUN 03 | JUL 24<br>JUL 13<br>JUN 24 | AUG 01<br>JUL 30<br>JUL 16 | JUL 29<br>AUG 01<br>AUG 06 | AUG 06<br>AUG 13<br>AUG 23 | AUG 14<br>AUG 26<br>SEP 08 | 25<br>54<br>84          | 12<br>31<br>59    | 0<br>7<br>33      | 82<br>71<br>61                    |  |
| HAILEY AIRPORT            | 36<br>32<br>28                | JUN 11<br>MAY 28<br>APR 28 | JUN 28<br>JUN 14<br>MAY 17 | JUL 14<br>JUL 01<br>JUN 06 | AUG 13<br>AUG 20<br>SEP 07 | AUG 27<br>SEP 10<br>SEP 25 | SEP 09<br>OCT 01<br>OCT 13 | 82<br>118<br>162        | 59<br>87<br>130   | 36<br>56<br>98    | 64<br>55<br>46                    |  |
| HAMER 4 NW                | 36<br>32<br>28                | JUN 02<br>MAY 20<br>APR 25 | JUN 23<br>JUN 13<br>MAY 19 | JUL 15<br>JUL 07<br>JUN 11 | AUG 09<br>AUG 21<br>SEP 03 | AUG 24<br>SEP 05<br>SEP 18 | SEP 08<br>SEP 19<br>OCT 02 | 90<br>112<br>149        | 61<br>83<br>121   | 32<br>54<br>93    | 66<br>59<br>50                    |  |
| HAZELTON                  | 36<br>32<br>28                | MAY 18<br>APR 28<br>APR 16 | JUN 07<br>MAY 13<br>MAY 01 | JUN 27<br>MAY 28<br>MAY 15 | AUG 30<br>SEP 10<br>SEP 22 | SEP 12<br>SEP 24<br>OCT 07 | SEP 24<br>OCT 09<br>OCT 23 | 122<br>155<br>182       | 96<br>134<br>159  | 70<br>112<br>136  | 56<br>45<br>33                    |  |
| HILL CITY                 | 36<br>32<br>28                | JUN 29<br>JUN 11<br>MAY 12 | JUL 14<br>JUN 29<br>JUN 06 | JUL 29<br>JUL 16<br>JUL 01 | JUL 31<br>AUG 11<br>AUG 21 | AUG 14<br>AUG 26<br>SEP 07 | AUG 28<br>SEP 10<br>SEP 24 | 55<br>83<br>122         | 31<br>58<br>92    | 7<br>32<br>63     | 71<br>61<br>50                    |  |
| HOLLISTER                 | 36<br>32<br>28                | MAY 28<br>MAY 10<br>APR 21 | JUN 16<br>MAY 28<br>MAY 10 | JUL 04<br>JUN 15<br>MAY 28 | AUG 27<br>SEP 10<br>SEP 22 | SEP 12<br>SEP 23<br>OCT 07 | SEP 28<br>OCT 06<br>OCT 22 | 110<br>140<br>176       | 87<br>117<br>150  | 64<br>94<br>124   | 55<br>45<br>33                    |  |
| IDAHO CITY                | 36<br>32<br>28                | JUN 27<br>JUN 05<br>MAY 07 | JUL 13<br>JUN 25<br>MAY 31 | JUL 28<br>JUL 15<br>JUN 25 | JUL 31<br>AUG 12<br>AUG 30 | AUG 15<br>AUG 31<br>SEP 15 | AUG 29<br>SEP 19<br>OCT 01 | 55<br>96<br>134         | 32<br>66<br>106   | 9<br>36<br>78     | 70<br>59<br>45                    |  |
| IDAHO FALLS FAA AP        | 36<br>32<br>28                | MAY 26<br>MAY 04<br>APR 23 | JUN 14<br>MAY 25<br>MAY 07 | JUL 02<br>JUN 14<br>MAY 20 | AUG 21<br>SEP 04<br>SEP 17 | SEP 05<br>SEP 17<br>OCT 01 | SEP 20<br>SEP 30<br>OCT 14 | 108<br>141<br>167       | 82<br>114<br>147  | 57<br>88<br>126   | 61<br>52<br>41                    |  |
| ISLAND PARK DAM           | 36<br>32<br>28                | JUL 02<br>JUN 14<br>MAY 20 | JUL 15<br>JUL 01<br>JUN 13 | JUL 29<br>JUL 18<br>JUL 07 | AUG 01<br>AUG 08<br>AUG 18 | AUG 14<br>AUG 25<br>SEP 01 | AUG 28<br>SEP 10<br>SEP 14 | 47<br>79<br>109         | 30<br>54<br>79    | 12<br>29<br>50    | 78<br>69<br>59                    |  |
| JEROME                    | 36<br>32<br>28                | MAY 08<br>APR 28<br>APR 14 | MAY 31<br>MAY 14<br>APR 30 | JUN 22<br>JUN 01<br>MAY 16 | SEP 03<br>SEP 17<br>OCT 01 | SEP 19<br>OCT 02<br>OCT 14 | OCT 05<br>OCT 18<br>OCT 27 | 138<br>168<br>189       | 111<br>141<br>166 | 84<br>113<br>142  | 52<br>43<br>31                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|-----|-----|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |     |     |                                   |  |
|                           |                               | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50  | 90  |                                   |  |
| IDAHO                     |                               |                            |        |        |                            |        |        |                            |     |     |                                   |  |
| KELLOGG                   | 36                            | MAY 06                     | JUN 05 | JUL 04 | AUG 23                     | SEP 12 | OCT 01 | 138                        | 98  | 58  | 54                                |  |
|                           | 32                            | APR 22                     | MAY 16 | JUN 09 | SEP 10                     | OCT 01 | OCT 21 | 174                        | 137 | 99  | 39                                |  |
|                           | 28                            | MAR 30                     | APR 19 | MAY 09 | SEP 19                     | OCT 14 | NOV 09 | 215                        | 178 | 141 | 25                                |  |
| KOOSKIA                   | 36                            | APR 30                     | MAY 27 | JUN 23 | AUG 30                     | SEP 13 | SEP 27 | 136                        | 108 | 80  | 51                                |  |
|                           | 32                            | APR 20                     | MAY 12 | JUN 03 | SEP 12                     | SEP 26 | OCT 09 | 161                        | 136 | 110 | 38                                |  |
|                           | 28                            | MAR 28                     | APR 20 | MAY 14 | SEP 19                     | OCT 08 | OCT 27 | 201                        | 170 | 139 | 23                                |  |
| KUNA 2 NNE                | 36                            | MAY 18                     | JUN 09 | JUN 30 | AUG 28                     | SEP 12 | SEP 28 | 123                        | 95  | 67  | 51                                |  |
|                           | 32                            | MAY 03                     | MAY 23 | JUN 12 | SEP 13                     | SEP 28 | OCT 14 | 153                        | 128 | 103 | 41                                |  |
|                           | 28                            | APR 13                     | APR 30 | MAY 16 | SEP 23                     | OCT 10 | OCT 27 | 186                        | 163 | 139 | 30                                |  |
| LIFTON PUMPING STATION    | 36                            | MAY 16                     | JUN 06 | JUN 27 | AUG 18                     | AUG 31 | SEP 13 | 112                        | 85  | 57  | 63                                |  |
|                           | 32                            | APR 29                     | MAY 18 | JUN 05 | AUG 31                     | SEP 15 | SEP 30 | 146                        | 120 | 93  | 56                                |  |
|                           | 28                            | APR 19                     | MAY 04 | JAY 19 | SEP 11                     | SEP 24 | OCT 07 | 162                        | 142 | 122 | 48                                |  |
| MACKAY RANGER STATION     | 36                            | JUN 07                     | JUN 26 | JUL 14 | AUG 18                     | AUG 31 | SEP 12 | 87                         | 65  | 44  | 66                                |  |
|                           | 32                            | MAY 18                     | JUN 08 | JUN 30 | AUG 29                     | SEP 10 | SEP 22 | 120                        | 93  | 65  | 58                                |  |
|                           | 28                            | APR 27                     | MAY 17 | JUN 06 | SEP 08                     | SEP 24 | OCT 10 | 148                        | 129 | 110 | 49                                |  |
| MALAD                     | 36                            | MAY 24                     | JUN 11 | JUN 28 | AUG 27                     | SEP 11 | SEP 27 | 117                        | 92  | 66  | 57                                |  |
|                           | 32                            | APR 30                     | MAY 22 | JUN 13 | SEP 07                     | SEP 24 | OCT 10 | 152                        | 124 | 96  | 48                                |  |
|                           | 28                            | APR 19                     | MAY 04 | MAY 20 | SEP 20                     | OCT 07 | OCT 24 | 178                        | 155 | 132 | 37                                |  |
| MALAD CITY FAA AP         | 36                            | JUN 01                     | JUN 20 | JUL 09 | AUG 15                     | AUG 30 | SEP 15 | 98                         | 71  | 43  | 63                                |  |
|                           | 32                            | MAY 12                     | JUN 05 | JUN 28 | AUG 29                     | SEP 13 | SEP 27 | 131                        | 99  | 68  | 54                                |  |
|                           | 28                            | APR 23                     | MAY 16 | JUN 09 | SEP 11                     | SEP 25 | OCT 09 | 156                        | 131 | 106 | 43                                |  |
| MAY RANGER STATION        | 36                            | JUN 14                     | JUL 02 | JUL 19 | AUG 05                     | AUG 20 | SEP 03 | 75                         | 48  | 21  | 69                                |  |
|                           | 32                            | JUN 01                     | JUN 20 | JUL 08 | AUG 22                     | SEP 04 | SEP 17 | 99                         | 76  | 53  | 59                                |  |
|                           | 28                            | APR 28                     | MAY 24 | JUN 19 | AUG 29                     | SEP 15 | OCT 03 | 148                        | 114 | 80  | 49                                |  |
| MC CALL                   | 36                            | JUN 27                     | JUL 13 | JUL 29 | AUG 02                     | AUG 16 | AUG 30 | 56                         | 33  | 11  | 72                                |  |
|                           | 32                            | MAY 31                     | JUN 23 | JUL 16 | AUG 07                     | AUG 26 | SEP 14 | 98                         | 63  | 29  | 62                                |  |
|                           | 28                            | MAY 08                     | MAY 30 | JUN 20 | AUG 25                     | SEP 12 | SEP 29 | 135                        | 105 | 74  | 47                                |  |
| MINIDOKA DAM              | 36                            | MAY 12                     | JUN 02 | JUN 23 | SEP 01                     | SEP 16 | OCT 02 | 134                        | 105 | 77  | 53                                |  |
|                           | 32                            | APR 23                     | MAY 15 | JUN 07 | SEP 16                     | OCT 01 | OCT 17 | 167                        | 138 | 109 | 44                                |  |
|                           | 28                            | APR 09                     | APR 27 | MAY 14 | SEP 29                     | OCT 14 | OCT 29 | 195                        | 170 | 144 | 32                                |  |
| MONTPELIER RANGER STA     | 36                            | JUN 16                     | JUL 03 | JUL 19 | AUG 08                     | AUG 23 | SEP 08 | 71                         | 51  | 30  | 70                                |  |
|                           | 32                            | MAY 28                     | JUN 16 | JUL 05 | AUG 17                     | SEP 01 | SEP 17 | 102                        | 77  | 51  | 62                                |  |
|                           | 28                            | MAY 03                     | MAY 28 | JUN 21 | AUG 31                     | SEP 15 | SEP 30 | 141                        | 110 | 78  | 52                                |  |
| MOSCOW U OF I             | 36                            | MAY 30                     | JUN 26 | JUL 23 | AUG 14                     | SEP 06 | SEP 28 | 107                        | 71  | 35  | 51                                |  |
|                           | 32                            | APR 27                     | MAY 23 | JUN 18 | SEP 03                     | SEP 23 | OCT 13 | 153                        | 123 | 92  | 37                                |  |
|                           | 28                            | MAR 29                     | APR 26 | MAY 23 | SEP 17                     | OCT 07 | OCT 28 | 201                        | 164 | 128 | 22                                |  |
| MOUNTAIN HOME             | 36                            | MAY 14                     | JUN 05 | JUN 28 | AUG 30                     | SEP 13 | SEP 27 | 128                        | 99  | 70  | 53                                |  |
|                           | 32                            | APR 30                     | MAY 20 | JUN 09 | SEP 07                     | SEP 24 | OCT 11 | 154                        | 126 | 99  | 43                                |  |
|                           | 28                            | APR 18                     | MAY 03 | MAY 18 | SEP 23                     | OCT 10 | OCT 27 | 184                        | 160 | 135 | 32                                |  |
| NEW MEADOWS RANGER STA    | 36                            | JUL 04                     | JUL 19 | AUG 04 | JUL 31                     | AUG 12 | AUG 24 | 45                         | 23  | 0   | 76                                |  |
|                           | 32                            | JUN 11                     | JUL 02 | JUL 23 | AUG 04                     | AUG 20 | SEP 06 | 76                         | 49  | 21  | 66                                |  |
|                           | 28                            | MAY 09                     | JUN 06 | JUL 04 | AUG 26                     | SEP 08 | SEP 20 | 123                        | 93  | 63  | 52                                |  |
| NEZPERCE                  | 36                            | MAY 26                     | JUN 19 | JUL 13 | AUG 19                     | SEP 05 | SEP 21 | 111                        | 77  | 43  | 55                                |  |
|                           | 32                            | MAY 01                     | MAY 24 | JUN 16 | SEP 04                     | SEP 22 | OCT 09 | 152                        | 120 | 88  | 43                                |  |
|                           | 28                            | APR 08                     | MAY 02 | MAY 25 | SEP 15                     | OCT 06 | OCT 27 | 192                        | 156 | 121 | 28                                |  |
| OAKLEY                    | 36                            | MAY 20                     | JUN 10 | JUL 02 | AUG 26                     | SEP 11 | SEP 28 | 123                        | 92  | 61  | 53                                |  |
|                           | 32                            | MAY 05                     | MAY 25 | JUN 13 | SEP 13                     | SEP 28 | OCT 14 | 150                        | 126 | 102 | 42                                |  |
|                           | 28                            | APR 19                     | MAY 04 | MAY 20 | SEP 21                     | OCT 07 | OCT 23 | 179                        | 155 | 131 | 31                                |  |
| OLA 4 S                   | 36                            | MAY 28                     | JUN 18 | JUL 09 | AUG 17                     | SEP 03 | SEP 20 | 107                        | 76  | 45  | 60                                |  |
|                           | 32                            | MAY 06                     | MAY 29 | JUN 21 | AUG 26                     | SEP 12 | SEP 30 | 137                        | 106 | 74  | 49                                |  |
|                           | 28                            | APR 20                     | MAY 09 | MAY 27 | SEP 14                     | OCT 01 | OCT 18 | 170                        | 144 | 119 | 36                                |  |

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|-----|-----|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |     |     |                                   |  |
|                           |                               | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50  | 90  |                                   |  |
| IDAHO                     |                               |                            |        |        |                            |        |        |                            |     |     |                                   |  |
| OROFINO                   | 36                            | APR 26                     | MAY 16 | JUN 05 | SEP 07                     | SEP 23 | OCT 09 | 150                        | 130 | 110 | 45                                |  |
|                           | 32                            | APR 14                     | MAY 01 | MAY 17 | SEP 20                     | OCT 07 | OCT 24 | 181                        | 159 | 136 | 31                                |  |
|                           | 28                            | MAR 21                     | APR 07 | APR 23 | OCT 06                     | OCT 24 | NOV 11 | 224                        | 200 | 176 | 17                                |  |
| PALISADES DAM             | 36                            | MAY 27                     | JUN 18 | JUL 10 | AUG 15                     | SEP 02 | SEP 20 | 104                        | 75  | 47  | 60                                |  |
|                           | 32                            | MAY 11                     | JUN 02 | JUN 24 | AUG 23                     | SEP 13 | OCT 04 | 134                        | 102 | 70  | 50                                |  |
|                           | 28                            | APR 22                     | MAY 14 | JUN 06 | SEP 12                     | SEP 29 | OCT 17 | 166                        | 137 | 108 | 39                                |  |
| PARMA EXPERIMENT STA      | 36                            | MAY 08                     | MAY 31 | JUN 22 | AUG 30                     | SEP 14 | SEP 30 | 132                        | 106 | 79  | 52                                |  |
|                           | 32                            | APR 21                     | MAY 12 | JUN 02 | SEP 15                     | SEP 28 | OCT 11 | 164                        | 138 | 113 | 42                                |  |
|                           | 28                            | APR 08                     | APR 27 | MAY 16 | SEP 23                     | OCT 09 | OCT 24 | 186                        | 164 | 141 | 30                                |  |
| PAUL 1 ENE                | 36                            | MAY 19                     | JUN 10 | JUL 01 | AUG 23                     | SEP 08 | SEP 23 | 116                        | 89  | 63  | 59                                |  |
|                           | 32                            | APR 29                     | MAY 19 | JUN 09 | SEP 04                     | SEP 19 | OCT 03 | 151                        | 122 | 92  | 49                                |  |
|                           | 28                            | APR 19                     | MAY 03 | MAY 17 | SEP 17                     | OCT 04 | OCT 20 | 179                        | 153 | 126 | 37                                |  |
| PAYETTE                   | 36                            | MAY 06                     | MAY 26 | JUN 16 | SEP 04                     | SEP 18 | OCT 03 | 139                        | 114 | 89  | 50                                |  |
|                           | 32                            | APR 20                     | MAY 10 | MAY 31 | SEP 16                     | SEP 29 | OCT 13 | 169                        | 141 | 114 | 39                                |  |
|                           | 28                            | APR 03                     | APR 22 | MAY 11 | SEP 30                     | OCT 14 | OCT 28 | 195                        | 174 | 153 | 28                                |  |
| POCATELLO WSO             | 36                            | MAY 17                     | JUN 06 | JUN 25 | AUG 24                     | SEP 08 | SEP 23 | 122                        | 93  | 64  | 56                                |  |
|                           | 32                            | APR 27                     | MAY 20 | JUN 12 | SEP 06                     | SEP 20 | OCT 03 | 146                        | 122 | 97  | 46                                |  |
|                           | 28                            | APR 17                     | MAY 04 | MAY 20 | SEP 18                     | OCT 03 | OCT 19 | 176                        | 152 | 128 | 35                                |  |
| POTHILL                   | 36                            | MAY 15                     | JUN 03 | JUN 22 | AUG 28                     | SEP 09 | SEP 21 | 122                        | 98  | 73  | 57                                |  |
|                           | 32                            | APR 29                     | MAY 15 | JUN 01 | SEP 05                     | SEP 19 | OCT 03 | 148                        | 126 | 105 | 47                                |  |
|                           | 28                            | APR 10                     | APR 27 | MAY 14 | SEP 15                     | SEP 30 | OCT 16 | 182                        | 155 | 129 | 33                                |  |
| POTLATCH 3 NNE            | 36                            | JUN 23                     | JUL 15 | AUG 05 | JUL 31                     | AUG 15 | AUG 30 | 62                         | 31  | 0   | 61                                |  |
|                           | 32                            | MAY 13                     | JUN 13 | JUL 15 | AUG 12                     | SEP 05 | SEP 28 | 128                        | 82  | 37  | 45                                |  |
|                           | 28                            | APR 12                     | MAY 13 | JUN 13 | AUG 30                     | SEP 20 | OCT 10 | 171                        | 129 | 87  | 28                                |  |
| PRIEST RIVER EXP STA      | 36                            | JUN 10                     | JUL 04 | JUL 27 | AUG 05                     | AUG 24 | SEP 11 | 82                         | 50  | 19  | 62                                |  |
|                           | 32                            | MAY 06                     | JUN 03 | JUN 30 | AUG 26                     | SEP 11 | SEP 27 | 135                        | 99  | 63  | 51                                |  |
|                           | 28                            | APR 22                     | MAY 10 | MAY 26 | SEP 07                     | SEP 24 | OCT 11 | 165                        | 137 | 108 | 34                                |  |
| RICHFIELD                 | 36                            | MAY 31                     | JUN 20 | JUL 11 | AUG 24                     | SEP 07 | SEP 20 | 99                         | 78  | 56  | 61                                |  |
|                           | 32                            | MAY 08                     | MAY 30 | JUN 20 | SEP 04                     | SEP 19 | OCT 04 | 139                        | 111 | 83  | 52                                |  |
|                           | 28                            | APR 23                     | MAY 15 | JUN 05 | SEP 20                     | OCT 04 | OCT 18 | 169                        | 141 | 114 | 41                                |  |
| RIGGINS RANGER STATION    | 36                            | APR 22                     | MAY 12 | JUN 01 | SEP 21                     | OCT 07 | OCT 23 | 173                        | 147 | 121 | 37                                |  |
|                           | 32                            | APR 02                     | APR 23 | MAY 14 | OCT 02                     | OCT 21 | NOV 09 | 206                        | 180 | 154 | 24                                |  |
|                           | 28                            | MAR 13                     | APR 02 | APR 22 | OCT 16                     | NOV 06 | NOV 27 | 243                        | 218 | 192 | 14                                |  |
| ST ANTHONY 1 WNW          | 36                            | JUN 09                     | JUN 28 | JUL 17 | AUG 11                     | AUG 25 | SEP 09 | 84                         | 58  | 31  | 66                                |  |
|                           | 32                            | MAY 11                     | JUN 04 | JUN 29 | AUG 21                     | SEP 06 | SEP 21 | 124                        | 93  | 61  | 56                                |  |
|                           | 28                            | APR 30                     | MAY 21 | JUN 12 | SEP 04                     | SEP 19 | OCT 05 | 146                        | 120 | 95  | 45                                |  |
| SAINT MARIES              | 36                            | MAY 15                     | JUN 12 | JUL 09 | AUG 20                     | SEP 05 | SEP 22 | 118                        | 85  | 51  | 55                                |  |
|                           | 32                            | APR 30                     | MAY 18 | JUN 04 | SEP 03                     | SEP 18 | OCT 03 | 144                        | 123 | 101 | 42                                |  |
|                           | 28                            | APR 08                     | APR 24 | MAY 11 | SEP 16                     | OCT 07 | OCT 27 | 193                        | 165 | 137 | 25                                |  |
| SALMON 1 N                | 36                            | MAY 29                     | JUN 20 | JUL 12 | AUG 19                     | SEP 02 | SEP 16 | 103                        | 73  | 43  | 62                                |  |
|                           | 32                            | MAY 08                     | JUN 02 | JUN 26 | AUG 30                     | SEP 15 | SEP 30 | 136                        | 104 | 73  | 54                                |  |
|                           | 28                            | APR 21                     | MAY 12 | JUN 01 | SEP 09                     | SEP 25 | OCT 10 | 163                        | 135 | 107 | 43                                |  |
| SANDBPOINT EXP STATION    | 36                            | MAY 23                     | JUN 15 | JUL 08 | AUG 19                     | SEP 05 | SEP 21 | 110                        | 81  | 52  | 56                                |  |
|                           | 32                            | MAY 05                     | MAY 20 | JUN 05 | SEP 03                     | SEP 17 | OCT 01 | 139                        | 119 | 99  | 43                                |  |
|                           | 28                            | APR 13                     | MAY 01 | MAY 19 | SEP 20                     | OCT 08 | OCT 26 | 184                        | 159 | 135 | 28                                |  |
| SHOSHONE 1 WNW            | 36                            | MAY 21                     | JUN 08 | JUN 25 | AUG 31                     | SEP 16 | OCT 01 | 124                        | 99  | 75  | 55                                |  |
|                           | 32                            | APR 28                     | MAY 18 | JUN 07 | SEP 10                     | SEP 25 | OCT 11 | 160                        | 129 | 99  | 46                                |  |
|                           | 28                            | APR 22                     | MAY 08 | MAY 24 | SEP 22                     | OCT 07 | OCT 23 | 177                        | 152 | 126 | 35                                |  |
| SWAN FALLS POWER HOUSE    | 36                            | APR 18                     | MAY 02 | MAY 16 | SEP 24                     | OCT 10 | OCT 25 | 182                        | 159 | 137 | 37                                |  |
|                           | 32                            | MAR 29                     | APR 20 | MAY 12 | OCT 07                     | OCT 22 | NOV 06 | 211                        | 184 | 157 | 26                                |  |
|                           | 28                            | MAR 14                     | APR 01 | APR 18 | OCT 23                     | NOV 06 | NOV 21 | 243                        | 219 | 195 | 16                                |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| IDAH0                     |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| WALLACE WOODLAND PARK     | 36<br>32<br>28                | MAY 31<br>MAY 06<br>APR 19 | JUN 26<br>MAY 25<br>MAY 07 | JUL 21<br>JUN 13<br>MAY 25 | AUG 20<br>AUG 31<br>SEP 14 | SEP 03<br>SEP 19<br>OCT 04 | SEP 16<br>OCT 08<br>OCT 24 | 98<br>143<br>176        | 68<br>117<br>149  | 38<br>90<br>123   | 61<br>47<br>33                    |  |
| ILLINOIS                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ALEDO                     | 36<br>32<br>28                | APR 21<br>APR 13<br>APR 01 | MAY 07<br>APR 26<br>APR 12 | MAY 24<br>MAY 08<br>APR 23 | SEP 15<br>SEP 25<br>OCT 06 | SEP 30<br>OCT 10<br>OCT 22 | OCT 16<br>OCT 26<br>NOV 08 | 165<br>190<br>212       | 145<br>167<br>192 | 125<br>144<br>173 | 44<br>38<br>30                    |  |
| ALTON DAM 26              | 36<br>32<br>28                | APR 03<br>MAR 24<br>MAR 11 | APR 18<br>APR 08<br>MAR 27 | MAY 02<br>APR 22<br>APR 11 | OCT 07<br>OCT 16<br>OCT 21 | OCT 21<br>NOV 01<br>NOV 08 | NOV 04<br>NOV 17<br>NOV 26 | 204<br>231<br>252       | 186<br>206<br>226 | 168<br>182<br>199 | 36<br>30<br>22                    |  |
| ANNA 1 E                  | 36<br>32<br>28                | APR 04<br>MAR 25<br>MAR 15 | APR 21<br>APR 10<br>MAR 29 | MAY 07<br>APR 26<br>APR 12 | OCT 03<br>OCT 13<br>OCT 24 | OCT 17<br>OCT 26<br>NOV 07 | OCT 30<br>NOV 08<br>NOV 21 | 202<br>215<br>244       | 178<br>198<br>222 | 155<br>181<br>200 | 33<br>25<br>18                    |  |
| ANTIOCH 2 NW              | 36<br>32<br>28                | MAY 06<br>APR 18<br>APR 10 | MAY 19<br>MAY 02<br>APR 23 | JUN 01<br>MAY 16<br>MAY 06 | SEP 20<br>SEP 27<br>OCT 07 | OCT 02<br>OCT 11<br>OCT 22 | OCT 15<br>OCT 25<br>NOV 07 | 155<br>183<br>204       | 136<br>161<br>181 | 117<br>139<br>159 | 48<br>41<br>32                    |  |
| AURORA COLLEGE            | 36<br>32<br>28                | APR 29<br>APR 14<br>APR 04 | MAY 15<br>MAY 01<br>APR 16 | MAY 31<br>MAY 17<br>APR 29 | SEP 15<br>SEP 28<br>OCT 09 | SEP 29<br>OCT 10<br>OCT 25 | OCT 13<br>OCT 22<br>NOV 09 | 156<br>184<br>211       | 136<br>162<br>190 | 116<br>140<br>170 | 46<br>39<br>31                    |  |
| BELLEVILLE SO ILL UNIV    | 36<br>32<br>28                | APR 12<br>MAR 31<br>MAR 16 | APR 27<br>APR 16<br>MAR 31 | MAY 12<br>MAY 01<br>APR 15 | SEP 27<br>OCT 05<br>OCT 13 | OCT 12<br>OCT 21<br>OCT 28 | OCT 27<br>NOV 07<br>NOV 13 | 189<br>212<br>235       | 167<br>188<br>210 | 145<br>163<br>186 | 36<br>29<br>21                    |  |
| CAIRO WSO                 | 36<br>32<br>28                | MAR 20<br>MAR 07<br>FEB 23 | APR 03<br>MAR 22<br>MAR 13 | APR 16<br>APR 06<br>MAR 31 | OCT 21<br>OCT 29<br>NOV 05 | NOV 02<br>NOV 11<br>NOV 20 | NOV 13<br>NOV 24<br>DEC 05 | 231<br>254<br>275       | 212<br>233<br>251 | 193<br>212<br>227 | 26<br>18<br>12                    |  |
| CARBONDALE SEWAGE PL      | 36<br>32<br>28                | APR 10<br>MAR 30<br>MAR 20 | APR 29<br>APR 15<br>APR 02 | MAY 18<br>APR 30<br>APR 15 | SEP 23<br>OCT 03<br>OCT 14 | OCT 05<br>OCT 15<br>OCT 28 | OCT 16<br>OCT 27<br>NOV 11 | 177<br>203<br>225       | 158<br>183<br>208 | 139<br>163<br>191 | 36<br>29<br>21                    |  |
| CARLINVILLE               | 36<br>32<br>28                | APR 19<br>APR 07<br>MAR 26 | MAY 05<br>APR 21<br>APR 10 | MAY 21<br>MAY 05<br>APR 24 | SEP 21<br>SEP 29<br>OCT 11 | OCT 05<br>OCT 13<br>OCT 25 | OCT 19<br>OCT 27<br>NOV 08 | 167<br>194<br>218       | 152<br>174<br>198 | 138<br>154<br>177 | 39<br>32<br>24                    |  |
| CARLYLE RESERVOIR         | 36<br>32<br>28                | APR 10<br>MAR 31<br>MAR 16 | APR 24<br>APR 13<br>APR 30 | MAY 08<br>APR 26<br>APR 13 | SEP 30<br>OCT 09<br>OCT 19 | OCT 13<br>OCT 23<br>NOV 02 | OCT 26<br>NOV 07<br>NOV 17 | 189<br>211<br>240       | 171<br>193<br>217 | 153<br>174<br>194 | 37<br>30<br>22                    |  |
| CHARLESTON                | 36<br>32<br>28                | APR 10<br>APR 01<br>MAR 24 | APR 30<br>APR 18<br>APR 05 | MAY 20<br>MAY 04<br>APR 18 | SEP 25<br>OCT 04<br>OCT 15 | OCT 10<br>OCT 19<br>OCT 30 | OCT 24<br>NOV 04<br>NOV 14 | 188<br>209<br>230       | 162<br>184<br>207 | 136<br>159<br>184 | 38<br>31<br>23                    |  |
| CHENOA                    | 36<br>32<br>28                | APR 25<br>APR 14<br>MAR 31 | MAY 11<br>MAY 10<br>APR 17 | MAY 26<br>MAY 16<br>MAY 03 | SEP 17<br>SEP 23<br>OCT 05 | SEP 29<br>OCT 10<br>OCT 22 | OCT 10<br>OCT 27<br>NOV 09 | 159<br>184<br>213       | 141<br>162<br>188 | 122<br>140<br>163 | 44<br>37<br>28                    |  |
| CHICAGO UNIVERSITY        | 36<br>32<br>28                | APR 13<br>APR 03<br>MAR 18 | APR 24<br>APR 14<br>MAR 30 | MAY 06<br>APR 25<br>APR 11 | OCT 09<br>OCT 22<br>OCT 30 | OCT 23<br>NOV 02<br>NOV 12 | NOV 07<br>NOV 13<br>NOV 25 | 201<br>216<br>243       | 181<br>201<br>227 | 162<br>186<br>210 | 38<br>30<br>22                    |  |
| CHICAGO MIDWAY AP         | 36<br>32<br>28                | APR 16<br>APR 06<br>MAR 23 | MAY 01<br>APR 22<br>APR 03 | MAY 17<br>MAY 07<br>APR 13 | SEP 30<br>OCT 12<br>OCT 19 | OCT 14<br>OCT 26<br>NOV 02 | OCT 29<br>NOV 09<br>NOV 17 | 187<br>208<br>233       | 165<br>187<br>213 | 143<br>165<br>193 | 41<br>33<br>25                    |  |
| DANVILLE                  | 36<br>32<br>28                | APR 21<br>APR 12<br>MAR 30 | MAY 08<br>APR 29<br>APR 15 | MAY 26<br>MAY 15<br>APR 30 | SEP 19<br>OCT 02<br>OCT 10 | OCT 01<br>OCT 12<br>OCT 25 | OCT 13<br>OCT 23<br>NOV 10 | 162<br>188<br>213       | 145<br>166<br>193 | 128<br>145<br>174 | 41<br>34<br>26                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| ILLINOIS                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| DECATUR                   | 36                            | APR 16                  | MAY 04 | MAY 22 | SEP 26                  | OCT 08 | OCT 20 | 175                     | 156 | 137 | 40                                |  |
|                           | 32                            | APR 10                  | APR 26 | MAY 12 | OCT 03                  | OCT 17 | OCT 31 | 196                     | 173 | 150 | 33                                |  |
|                           | 28                            | MAR 27                  | APR 10 | APR 23 | OCT 11                  | OCT 27 | NOV 12 | 219                     | 200 | 180 | 25                                |  |
| DE KALB                   | 36                            | MAY 02                  | MAY 16 | MAY 31 | SEP 16                  | SEP 29 | OCT 13 | 153                     | 135 | 118 | 46                                |  |
|                           | 32                            | APR 18                  | MAY 03 | MAY 19 | SEP 26                  | OCT 09 | OCT 23 | 179                     | 158 | 137 | 40                                |  |
|                           | 28                            | APR 06                  | APR 19 | MAY 02 | OCT 04                  | OCT 20 | NOV 05 | 203                     | 183 | 163 | 32                                |  |
| DIXON                     | 36                            | APR 22                  | MAY 10 | MAY 28 | SEP 18                  | OCT 01 | OCT 15 | 165                     | 143 | 122 | 45                                |  |
|                           | 32                            | APR 13                  | APR 26 | MAY 10 | SEP 29                  | OCT 12 | OCT 25 | 188                     | 168 | 148 | 39                                |  |
|                           | 28                            | APR 02                  | APR 15 | APR 27 | OCT 09                  | OCT 24 | NOV 08 | 211                     | 191 | 172 | 30                                |  |
| DU QUOIN 1 NNW            | 36                            | APR 09                  | APR 26 | MAY 14 | SEP 26                  | OCT 08 | OCT 21 | 184                     | 164 | 144 | 35                                |  |
|                           | 32                            | MAR 28                  | APR 10 | APR 23 | OCT 04                  | OCT 19 | NOV 03 | 212                     | 191 | 171 | 28                                |  |
|                           | 28                            | MAR 17                  | MAR 30 | APR 12 | OCT 16                  | OCT 31 | NOV 14 | 231                     | 214 | 197 | 20                                |  |
| EFFINGHAM                 | 36                            | APR 17                  | MAY 04 | MAY 21 | SEP 24                  | OCT 07 | OCT 20 | 178                     | 155 | 132 | 39                                |  |
|                           | 32                            | APR 05                  | APR 21 | MAY 06 | OCT 02                  | OCT 16 | OCT 29 | 198                     | 177 | 157 | 32                                |  |
|                           | 28                            | MAR 22                  | APR 05 | APR 18 | OCT 10                  | OCT 26 | NOV 12 | 227                     | 204 | 181 | 24                                |  |
| FAIRFIELD RADIO WFIW      | 36                            | APR 11                  | APR 29 | MAY 17 | SEP 24                  | OCT 05 | OCT 16 | 178                     | 158 | 139 | 35                                |  |
|                           | 32                            | MAR 31                  | APR 17 | MAY 03 | OCT 03                  | OCT 18 | NOV 01 | 204                     | 183 | 162 | 28                                |  |
|                           | 28                            | MAR 20                  | APR 02 | APR 15 | OCT 14                  | OCT 27 | NOV 09 | 223                     | 207 | 191 | 20                                |  |
| FLORA 5 NW                | 36                            | APR 15                  | MAY 01 | MAY 18 | SEP 25                  | OCT 07 | OCT 20 | 176                     | 158 | 140 | 37                                |  |
|                           | 32                            | APR 04                  | APR 20 | MAY 06 | OCT 03                  | OCT 17 | OCT 31 | 202                     | 179 | 157 | 30                                |  |
|                           | 28                            | MAR 21                  | APR 03 | APR 15 | OCT 13                  | OCT 27 | NOV 10 | 226                     | 206 | 187 | 22                                |  |
| FULTON DAM 13             | 36                            | APR 15                  | APR 30 | MAY 14 | SEP 26                  | OCT 09 | OCT 22 | 184                     | 162 | 139 | 43                                |  |
|                           | 32                            | APR 06                  | APR 18 | APR 30 | OCT 06                  | OCT 20 | NOV 03 | 203                     | 184 | 166 | 37                                |  |
|                           | 28                            | MAR 27                  | APR 07 | APR 17 | OCT 17                  | OCT 31 | NOV 14 | 225                     | 207 | 189 | 29                                |  |
| GALESBURG                 | 36                            | APR 19                  | MAY 05 | MAY 21 | SEP 22                  | OCT 04 | OCT 17 | 168                     | 151 | 134 | 44                                |  |
|                           | 32                            | APR 10                  | APR 22 | MAY 05 | OCT 01                  | OCT 15 | OCT 29 | 194                     | 175 | 156 | 37                                |  |
|                           | 28                            | MAR 27                  | APR 10 | APR 25 | OCT 13                  | OCT 26 | NOV 09 | 216                     | 198 | 181 | 29                                |  |
| GALVA                     | 36                            | APR 22                  | MAY 08 | MAY 25 | SEP 20                  | OCT 04 | OCT 18 | 169                     | 148 | 126 | 45                                |  |
|                           | 32                            | APR 13                  | APR 25 | MAY 07 | SEP 28                  | OCT 13 | OCT 28 | 190                     | 170 | 150 | 39                                |  |
|                           | 28                            | APR 01                  | APR 14 | APR 27 | OCT 08                  | OCT 26 | NOV 12 | 219                     | 194 | 169 | 31                                |  |
| GRIGGSVILLE               | 36                            | APR 18                  | APR 29 | MAY 10 | SEP 25                  | OCT 09 | OCT 23 | 180                     | 162 | 144 | 39                                |  |
|                           | 32                            | APR 04                  | APR 18 | MAY 02 | OCT 07                  | OCT 21 | NOV 03 | 204                     | 185 | 165 | 32                                |  |
|                           | 28                            | MAR 25                  | APR 08 | APR 22 | OCT 14                  | OCT 29 | NOV 13 | 222                     | 204 | 185 | 25                                |  |
| HARRISBURG                | 36                            | APR 09                  | APR 27 | MAY 15 | SEP 25                  | OCT 07 | OCT 18 | 182                     | 162 | 143 | 33                                |  |
|                           | 32                            | MAR 29                  | APR 13 | APR 28 | OCT 03                  | OCT 15 | OCT 27 | 202                     | 184 | 166 | 26                                |  |
|                           | 28                            | MAR 18                  | MAR 31 | APR 13 | OCT 16                  | OCT 28 | NOV 10 | 230                     | 211 | 192 | 18                                |  |
| HILLSBORO 2 SSW           | 36                            | APR 16                  | MAY 01 | MAY 16 | SEP 26                  | OCT 09 | OCT 22 | 179                     | 160 | 142 | 39                                |  |
|                           | 32                            | APR 05                  | APR 20 | MAY 04 | OCT 03                  | OCT 16 | OCT 29 | 196                     | 179 | 162 | 32                                |  |
|                           | 28                            | MAR 23                  | APR 06 | APR 21 | OCT 13                  | OCT 29 | NOV 14 | 229                     | 205 | 180 | 23                                |  |
| HOPESTON                  | 36                            | APR 18                  | MAY 06 | MAY 24 | SEP 19                  | OCT 03 | OCT 18 | 171                     | 149 | 128 | 41                                |  |
|                           | 32                            | APR 13                  | APR 26 | MAY 10 | OCT 03                  | OCT 17 | NOV 01 | 194                     | 173 | 153 | 35                                |  |
|                           | 28                            | MAR 29                  | APR 14 | APR 29 | OCT 13                  | OCT 28 | NOV 12 | 215                     | 197 | 178 | 26                                |  |
| JACKSONVILLE              | 36                            | APR 17                  | MAY 03 | MAY 18 | SEP 23                  | OCT 08 | OCT 23 | 174                     | 157 | 141 | 40                                |  |
|                           | 32                            | APR 08                  | APR 20 | MAY 03 | OCT 02                  | OCT 18 | NOV 02 | 199                     | 180 | 160 | 34                                |  |
|                           | 28                            | MAR 25                  | APR 08 | APR 22 | OCT 12                  | OCT 27 | NOV 10 | 219                     | 201 | 183 | 26                                |  |
| JERSEYVILLE 2 SW          | 36                            | APR 19                  | MAY 04 | MAY 19 | SEP 19                  | OCT 02 | OCT 15 | 164                     | 151 | 137 | 40                                |  |
|                           | 32                            | APR 06                  | APR 22 | MAY 09 | SEP 30                  | OCT 14 | OCT 28 | 192                     | 174 | 156 | 33                                |  |
|                           | 28                            | MAR 25                  | APR 09 | APR 24 | OCT 08                  | OCT 22 | NOV 05 | 216                     | 196 | 175 | 24                                |  |
| KEWANEE                   | 36                            | APR 22                  | MAY 09 | MAY 26 | SEP 17                  | OCT 05 | OCT 23 | 174                     | 148 | 123 | 44                                |  |
|                           | 32                            | APR 11                  | APR 26 | MAY 10 | SEP 27                  | OCT 14 | OCT 30 | 198                     | 170 | 142 | 38                                |  |
|                           | 28                            | APR 02                  | APR 14 | APR 25 | OCT 04                  | OCT 22 | NOV 09 | 217                     | 191 | 165 | 30                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                               |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                               |  |
| ILLINOIS                  |                               |                         |        |        |                         |        |        |                         |     |     |                               |  |
| LA HARPE                  | 36                            | APR 19                  | MAY 04 | MAY 18 | SEP 19                  | OCT 03 | OCT 17 | 171                     | 152 | 133 | 43                            |  |
|                           | 32                            | APR 09                  | APR 23 | MAY 07 | SEP 30                  | OCT 14 | OCT 28 | 193                     | 173 | 154 | 36                            |  |
|                           | 28                            | MAR 29                  | APR 11 | APR 24 | OCT 09                  | OCT 24 | NOV 09 | 215                     | 195 | 176 | 29                            |  |
| LINCOLN                   | 36                            | APR 16                  | MAY 04 | MAY 22 | SEP 23                  | OCT 06 | OCT 18 | 174                     | 154 | 134 | 41                            |  |
|                           | 32                            | APR 08                  | APR 22 | MAY 06 | OCT 04                  | OCT 18 | OCT 31 | 198                     | 178 | 158 | 34                            |  |
|                           | 28                            | MAR 26                  | APR 09 | APR 23 | OCT 13                  | OCT 28 | NOV 12 | 224                     | 201 | 178 | 26                            |  |
| MARENGO                   | 36                            | MAY 07                  | MAY 21 | JUN 04 | SEP 13                  | SEP 26 | OCT 09 | 147                     | 128 | 108 | 48                            |  |
|                           | 32                            | APR 23                  | MAY 09 | MAY 24 | SEP 22                  | OCT 03 | OCT 14 | 162                     | 147 | 131 | 42                            |  |
|                           | 28                            | APR 10                  | APR 25 | MAY 11 | SEP 28                  | OCT 15 | NOV 01 | 197                     | 172 | 146 | 34                            |  |
| MATTOON                   | 36                            | APR 12                  | APR 30 | MAY 17 | SEP 29                  | OCT 10 | OCT 21 | 182                     | 163 | 143 | 40                            |  |
|                           | 32                            | APR 05                  | APR 18 | MAY 02 | OCT 05                  | OCT 18 | OCT 31 | 200                     | 182 | 163 | 33                            |  |
|                           | 28                            | MAR 21                  | APR 05 | APR 20 | OCT 12                  | OCT 28 | NOV 14 | 228                     | 206 | 183 | 24                            |  |
| MCLEANSBORO 2 E           | 36                            | APR 07                  | APR 24 | MAY 11 | SEP 30                  | OCT 11 | OCT 22 | 187                     | 169 | 151 | 35                            |  |
|                           | 32                            | MAR 28                  | APR 13 | APR 30 | OCT 10                  | OCT 24 | NOV 07 | 214                     | 193 | 171 | 27                            |  |
|                           | 28                            | MAR 16                  | MAR 29 | APR 11 | OCT 20                  | NOV 01 | NOV 13 | 236                     | 216 | 196 | 20                            |  |
| MINONK 3 NE               | 36                            | APR 24                  | MAY 10 | MAY 26 | SEP 19                  | SEP 30 | OCT 12 | 164                     | 143 | 122 | 45                            |  |
|                           | 32                            | APR 13                  | APR 29 | MAY 15 | SEP 29                  | OCT 14 | OCT 28 | 190                     | 168 | 145 | 38                            |  |
|                           | 28                            | APR 01                  | APR 15 | APR 29 | OCT 09                  | OCT 24 | NOV 09 | 213                     | 192 | 170 | 29                            |  |
| MONMOUTH                  | 36                            | APR 22                  | MAY 08 | MAY 23 | SEP 20                  | OCT 03 | OCT 15 | 164                     | 147 | 130 | 43                            |  |
|                           | 32                            | APR 11                  | APR 24 | MAY 06 | SEP 25                  | OCT 10 | OCT 24 | 188                     | 168 | 148 | 36                            |  |
|                           | 28                            | MAR 29                  | APR 13 | APR 28 | OCT 13                  | OCT 27 | NOV 11 | 218                     | 197 | 176 | 28                            |  |
| MORRISON                  | 36                            | APR 24                  | MAY 10 | MAY 27 | SEP 13                  | SEP 27 | OCT 11 | 155                     | 139 | 123 | 46                            |  |
|                           | 32                            | APR 13                  | APR 29 | MAY 14 | SEP 25                  | OCT 08 | OCT 21 | 181                     | 162 | 142 | 40                            |  |
|                           | 28                            | APR 05                  | APR 18 | APR 30 | OCT 06                  | OCT 19 | NOV 02 | 204                     | 184 | 164 | 32                            |  |
| MOUNT CARROLL             | 36                            | MAY 03                  | MAY 18 | JUN 02 | SEP 11                  | SEP 23 | OCT 05 | 146                     | 127 | 108 | 48                            |  |
|                           | 32                            | APR 22                  | MAY 07 | MAY 21 | SEP 21                  | OCT 04 | OCT 17 | 167                     | 149 | 132 | 42                            |  |
|                           | 28                            | APR 09                  | APR 23 | MAY 07 | SEP 29                  | OCT 15 | OCT 31 | 199                     | 174 | 150 | 34                            |  |
| MOUNT VERNON              | 36                            | APR 09                  | APR 26 | MAY 14 | SEP 28                  | OCT 10 | OCT 21 | 185                     | 166 | 146 | 36                            |  |
|                           | 32                            | MAR 28                  | APR 14 | MAY 02 | OCT 08                  | OCT 21 | NOV 03 | 210                     | 189 | 169 | 29                            |  |
|                           | 28                            | MAR 20                  | APR 03 | APR 16 | OCT 15                  | OCT 31 | NOV 15 | 230                     | 210 | 191 | 21                            |  |
| NEWTON 2 NE               | 36                            | APR 13                  | MAY 01 | MAY 19 | SEP 27                  | OCT 08 | OCT 20 | 183                     | 160 | 136 | 38                            |  |
|                           | 32                            | APR 03                  | APR 18 | MAY 03 | OCT 04                  | OCT 18 | NOV 01 | 203                     | 182 | 162 | 30                            |  |
|                           | 28                            | MAR 20                  | APR 02 | APR 15 | OCT 17                  | OCT 30 | NOV 11 | 228                     | 210 | 191 | 22                            |  |
| OLNEY 2 S                 | 36                            | APR 14                  | MAY 02 | MAY 19 | SEP 23                  | OCT 05 | OCT 18 | 174                     | 156 | 138 | 36                            |  |
|                           | 32                            | APR 04                  | APR 19 | MAY 04 | OCT 02                  | OCT 16 | OCT 29 | 200                     | 179 | 158 | 29                            |  |
|                           | 28                            | MAR 23                  | APR 04 | APR 16 | OCT 14                  | OCT 27 | NOV 10 | 224                     | 206 | 188 | 21                            |  |
| OTTAWA                    | 36                            | APR 20                  | MAY 05 | MAY 21 | SEP 23                  | OCT 05 | OCT 17 | 170                     | 152 | 134 | 42                            |  |
|                           | 32                            | APR 09                  | APR 22 | MAY 05 | OCT 06                  | OCT 19 | NOV 01 | 199                     | 180 | 161 | 34                            |  |
|                           | 28                            | MAR 26                  | APR 10 | APR 25 | OCT 14                  | OCT 29 | NOV 14 | 225                     | 202 | 178 | 26                            |  |
| PALESTINE                 | 36                            | APR 13                  | APR 30 | MAY 18 | SEP 23                  | OCT 06 | OCT 18 | 181                     | 157 | 134 | 37                            |  |
|                           | 32                            | MAR 31                  | APR 14 | APR 28 | OCT 04                  | OCT 18 | NOV 01 | 205                     | 186 | 167 | 29                            |  |
|                           | 28                            | MAR 20                  | APR 03 | APR 17 | OCT 17                  | OCT 30 | NOV 12 | 228                     | 210 | 191 | 21                            |  |
| PANA                      | 36                            | APR 12                  | APR 28 | MAY 14 | SEP 29                  | OCT 12 | OCT 25 | 186                     | 167 | 147 | 38                            |  |
|                           | 32                            | APR 02                  | APR 16 | APR 30 | OCT 12                  | OCT 25 | NOV 07 | 210                     | 191 | 172 | 31                            |  |
|                           | 28                            | MAR 23                  | APR 06 | APR 21 | OCT 20                  | NOV 03 | NOV 16 | 232                     | 210 | 188 | 23                            |  |
| PARIS WATERWORKS          | 36                            | APR 18                  | MAY 04 | MAY 21 | SEP 23                  | OCT 06 | OCT 19 | 174                     | 154 | 134 | 39                            |  |
|                           | 32                            | APR 06                  | APR 23 | MAY 09 | OCT 06                  | OCT 21 | NOV 06 | 202                     | 181 | 160 | 32                            |  |
|                           | 28                            | MAR 25                  | APR 10 | APR 25 | OCT 13                  | OCT 29 | NOV 14 | 225                     | 201 | 178 | 24                            |  |
| PARK FOREST               | 36                            | APR 27                  | MAY 13 | MAY 29 | SEP 23                  | OCT 06 | OCT 20 | 166                     | 146 | 125 | 44                            |  |
|                           | 32                            | APR 14                  | APR 29 | MAY 14 | OCT 02                  | OCT 17 | NOV 01 | 192                     | 170 | 149 | 37                            |  |
|                           | 28                            | APR 03                  | APR 15 | APR 27 | OCT 13                  | OCT 28 | NOV 13 | 214                     | 196 | 178 | 29                            |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                   |  |
| ILLINOIS                  |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                   |  |
| PEORIA WSO                | 36<br>32<br>28                | APR 20<br>APR 10<br>MAR 25 | MAY 06<br>APR 24<br>APR 08 | MAY 23<br>MAY 08<br>APR 22 | SEP 25<br>OCT 06<br>OCT 13 | OCT 06<br>OCT 20<br>OCT 27 | OCT 17<br>NOV 04<br>NOV 11 | 171<br>197<br>222          | 152<br>178<br>201 | 132<br>160<br>181 | 43<br>36<br>28                    |  |
| PERU 2 W                  | 36<br>32<br>28                | APR 21<br>APR 13<br>MAR 31 | MAY 08<br>APR 27<br>APR 14 | MAY 25<br>MAY 11<br>APR 28 | SEP 18<br>SEP 27<br>OCT 09 | OCT 01<br>OCT 12<br>OCT 24 | OCT 13<br>OCT 27<br>NOV 09 | 165<br>192<br>217          | 145<br>167<br>193 | 124<br>143<br>168 | 44<br>37<br>29                    |  |
| PIPER CITY 3 SE           | 36<br>32<br>28                | APR 22<br>APR 15<br>MAR 29 | MAY 10<br>APR 28<br>APR 15 | MAY 27<br>MAY 12<br>MAY 02 | SEP 18<br>SEP 28<br>OCT 09 | SEP 29<br>OCT 14<br>OCT 25 | OCT 11<br>OCT 29<br>NOV 10 | 165<br>190<br>215          | 142<br>168<br>192 | 119<br>146<br>169 | 43<br>36<br>27                    |  |
| PONTIAC                   | 36<br>32<br>28                | APR 19<br>APR 09<br>MAR 26 | MAY 04<br>APR 21<br>APR 08 | MAY 20<br>MAY 04<br>APR 22 | SEP 27<br>OCT 07<br>OCT 14 | OCT 08<br>OCT 21<br>OCT 30 | OCT 19<br>NOV 04<br>NOV 14 | 175<br>199<br>224          | 156<br>182<br>204 | 137<br>165<br>183 | 42<br>35<br>26                    |  |
| QUINCY FAA AIRPORT        | 36<br>32<br>28                | APR 13<br>MAR 29<br>MAR 23 | APR 28<br>APR 15<br>APR 07 | MAY 13<br>MAY 02<br>APR 22 | SEP 26<br>OCT 06<br>OCT 14 | OCT 11<br>OCT 21<br>OCT 30 | OCT 26<br>NOV 05<br>NOV 15 | 184<br>213<br>228          | 165<br>188<br>206 | 146<br>164<br>183 | 40<br>33<br>25                    |  |
| RANTOUL                   | 36<br>32<br>28                | APR 18<br>APR 09<br>MAR 25 | MAY 03<br>APR 22<br>APR 10 | MAY 18<br>MAY 05<br>APR 25 | SEP 28<br>OCT 04<br>OCT 15 | OCT 11<br>OCT 18<br>OCT 28 | OCT 25<br>NOV 01<br>NOV 10 | 180<br>196<br>220          | 160<br>179<br>200 | 141<br>161<br>181 | 42<br>35<br>26                    |  |
| ROCKFORD WSO              | 36<br>32<br>28                | APR 29<br>APR 16<br>APR 02 | MAY 13<br>MAY 13<br>APR 15 | MAY 26<br>MAY 13<br>APR 28 | SEP 19<br>SEP 25<br>OCT 07 | SEP 30<br>OCT 11<br>OCT 21 | OCT 12<br>OCT 27<br>NOV 04 | 157<br>186<br>209          | 140<br>164<br>188 | 124<br>142<br>167 | 47<br>40<br>32                    |  |
| ROSICLARE                 | 36<br>32<br>28                | APR 08<br>MAR 24<br>MAR 16 | APR 25<br>APR 12<br>APR 13 | MAY 12<br>MAY 30<br>APR 13 | SEP 26<br>OCT 09<br>OCT 17 | OCT 10<br>OCT 23<br>NOV 01 | OCT 24<br>NOV 07<br>NOV 16 | 188<br>217<br>235          | 167<br>194<br>216 | 147<br>171<br>196 | 33<br>25<br>18                    |  |
| RUSHVILLE                 | 36<br>32<br>28                | APR 20<br>APR 08<br>MAR 26 | MAY 07<br>APR 21<br>APR 08 | MAY 23<br>MAY 04<br>APR 22 | SEP 22<br>OCT 02<br>OCT 13 | OCT 07<br>OCT 18<br>OCT 27 | OCT 22<br>NOV 03<br>NOV 10 | 171<br>200<br>222          | 153<br>179<br>201 | 134<br>158<br>181 | 41<br>35<br>27                    |  |
| SPARTA                    | 36<br>32<br>28                | APR 12<br>MAR 27<br>MAR 16 | APR 27<br>APR 11<br>MAR 30 | MAY 13<br>MAY 27<br>APR 12 | OCT 01<br>OCT 05<br>OCT 19 | OCT 14<br>OCT 20<br>NOV 03 | OCT 27<br>NOV 04<br>NOV 18 | 191<br>210<br>240          | 169<br>191<br>218 | 146<br>173<br>195 | 34<br>26<br>18                    |  |
| SPRINGFIELD WSO           | 36<br>32<br>28                | APR 14<br>APR 03<br>MAR 21 | APR 30<br>APR 17<br>APR 06 | MAY 16<br>MAY 01<br>APR 22 | SEP 27<br>OCT 06<br>OCT 14 | OCT 10<br>OCT 19<br>OCT 29 | OCT 23<br>NOV 01<br>NOV 14 | 179<br>201<br>230          | 162<br>185<br>206 | 145<br>168<br>181 | 40<br>33<br>24                    |  |
| STOCKTON                  | 36<br>32<br>28                | APR 29<br>APR 17<br>APR 06 | MAY 12<br>MAY 03<br>APR 19 | MAY 25<br>MAY 18<br>MAY 03 | SEP 16<br>SEP 23<br>OCT 04 | OCT 01<br>OCT 07<br>OCT 21 | OCT 15<br>OCT 21<br>NOV 08 | 161<br>182<br>208          | 141<br>157<br>184 | 120<br>132<br>161 | 47<br>41<br>33                    |  |
| TUSCOLA                   | 36<br>32<br>28                | APR 17<br>APR 10<br>MAR 25 | MAY 05<br>APR 26<br>APR 08 | MAY 22<br>MAY 12<br>APR 22 | SEP 19<br>OCT 03<br>OCT 13 | OCT 04<br>OCT 17<br>OCT 27 | OCT 19<br>NOV 01<br>NOV 10 | 169<br>195<br>220          | 152<br>174<br>202 | 134<br>152<br>183 | 41<br>34<br>25                    |  |
| URBANA                    | 36<br>32<br>28                | APR 12<br>APR 05<br>MAR 23 | APR 28<br>APR 18<br>APR 04 | MAY 13<br>MAY 01<br>APR 16 | SEP 28<br>OCT 10<br>OCT 21 | OCT 12<br>OCT 24<br>NOV 03 | OCT 26<br>NOV 06<br>NOV 16 | 189<br>206<br>231          | 166<br>188<br>213 | 143<br>170<br>194 | 40<br>33<br>24                    |  |
| VIRDEN 1 N                | 36<br>32<br>28                | APR 19<br>APR 07<br>MAR 21 | MAY 01<br>APR 21<br>APR 07 | MAY 13<br>MAY 04<br>APR 24 | SEP 24<br>OCT 03<br>OCT 11 | OCT 07<br>OCT 18<br>OCT 25 | OCT 19<br>NOV 02<br>NOV 09 | 174<br>198<br>221          | 158<br>180<br>200 | 143<br>161<br>180 | 39<br>33<br>25                    |  |
| WALNUT                    | 36<br>32<br>28                | APR 23<br>APR 15<br>APR 03 | MAY 08<br>MAY 12<br>APR 17 | MAY 23<br>MAY 12<br>APR 30 | SEP 20<br>SEP 25<br>OCT 11 | OCT 03<br>OCT 10<br>OCT 25 | OCT 15<br>OCT 24<br>NOV 08 | 164<br>182<br>209          | 147<br>164<br>191 | 129<br>145<br>173 | 44<br>38<br>30                    |  |
| WATSEKA 2 NW              | 36<br>32<br>28                | APR 23<br>APR 10<br>APR 01 | MAY 13<br>MAY 14<br>APR 16 | JUN 03<br>MAY 01<br>MAY 01 | SEP 16<br>SEP 29<br>OCT 08 | SEP 29<br>OCT 11<br>OCT 24 | OCT 12<br>OCT 24<br>NOV 09 | 163<br>188<br>216          | 138<br>166<br>190 | 113<br>145<br>165 | 43<br>36<br>27                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| ILLINOIS                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| WAUKEGAN 4 HSW            | 36                            | MAY 01                  | MAY 15 | MAY 30 | SEP 23                  | OCT 06 | OCT 20 | 164                     | 143 | 123 | 46                                |  |
|                           | 32                            | APR 13                  | APR 27 | MAY 11 | SEP 30                  | OCT 16 | OCT 31 | 194                     | 171 | 148 | 38                                |  |
|                           | 28                            | APR 04                  | APR 17 | APR 29 | OCT 14                  | OCT 29 | NOV 12 | 212                     | 194 | 176 | 30                                |  |
| WHEATON 3 SE              | 36                            | MAY 01                  | MAY 16 | JUN 01 | SEP 16                  | OCT 01 | OCT 15 | 155                     | 136 | 118 | 45                                |  |
|                           | 32                            | APR 14                  | APR 03 | MAY 21 | SEP 26                  | OCT 10 | OCT 23 | 183                     | 159 | 136 | 39                                |  |
|                           | 28                            | APR 09                  | APR 23 | MAY 07 | OCT 07                  | OCT 22 | NOV 07 | 206                     | 181 | 157 | 30                                |  |
| WHITE HALL 1 E            | 36                            | APR 13                  | APR 28 | MAY 12 | SEP 24                  | OCT 07 | OCT 20 | 178                     | 162 | 145 | 39                                |  |
|                           | 32                            | APR 03                  | APR 17 | APR 30 | OCT 08                  | OCT 21 | NOV 03 | 204                     | 186 | 169 | 32                                |  |
|                           | 28                            | MAR 26                  | APR 09 | APR 22 | OCT 16                  | OCT 30 | NOV 14 | 225                     | 204 | 183 | 24                                |  |
| WINDSOR                   | 36                            | APR 16                  | MAY 03 | MAY 20 | SEP 22                  | OCT 06 | OCT 21 | 176                     | 156 | 135 | 39                                |  |
|                           | 32                            | APR 08                  | APR 22 | MAY 07 | OCT 07                  | OCT 20 | NOV 01 | 198                     | 179 | 161 | 32                                |  |
|                           | 28                            | MAR 24                  | APR 08 | APR 22 | OCT 18                  | OCT 30 | NOV 12 | 224                     | 205 | 186 | 24                                |  |
| INDIANA                   |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| ANDERSON SEWAGE PLANT     | 36                            | APR 23                  | MAY 08 | MAY 23 | SEP 19                  | OCT 02 | OCT 16 | 167                     | 147 | 126 | 41                                |  |
|                           | 32                            | APR 16                  | MAY 01 | MAY 15 | OCT 01                  | OCT 14 | OCT 27 | 185                     | 166 | 146 | 34                                |  |
|                           | 28                            | MAR 26                  | APR 14 | MAY 02 | OCT 13                  | OCT 27 | NOV 10 | 221                     | 196 | 171 | 25                                |  |
| BERNE                     | 36                            | APR 24                  | MAY 09 | MAY 24 | SEP 17                  | OCT 01 | OCT 15 | 164                     | 145 | 125 | 42                                |  |
|                           | 32                            | APR 17                  | MAY 02 | MAY 16 | OCT 01                  | OCT 15 | OCT 28 | 182                     | 165 | 148 | 35                                |  |
|                           | 28                            | APR 01                  | APR 15 | APR 29 | OCT 13                  | OCT 27 | NOV 11 | 216                     | 194 | 173 | 26                                |  |
| BROOKVILLE                | 36                            | APR 30                  | MAY 14 | MAY 29 | SEP 17                  | SEP 28 | OCT 10 | 155                     | 137 | 118 | 46                                |  |
|                           | 32                            | APR 17                  | MAY 02 | MAY 16 | SEP 29                  | OCT 08 | OCT 18 | 173                     | 159 | 145 | 38                                |  |
|                           | 28                            | APR 07                  | APR 21 | MAY 05 | OCT 11                  | OCT 21 | OCT 31 | 199                     | 182 | 166 | 30                                |  |
| CAMBRIDGE CITY            | 36                            | APR 25                  | MAY 11 | MAY 28 | SEP 14                  | SEP 25 | OCT 05 | 155                     | 136 | 117 | 46                                |  |
|                           | 32                            | APR 21                  | MAY 04 | MAY 17 | SEP 24                  | OCT 06 | OCT 17 | 168                     | 154 | 140 | 39                                |  |
|                           | 28                            | APR 07                  | APR 20 | MAY 03 | OCT 05                  | OCT 17 | OCT 29 | 196                     | 179 | 162 | 31                                |  |
| COLUMBIA CITY 1 S         | 36                            | APR 27                  | MAY 11 | MAY 25 | SEP 15                  | SEP 29 | OCT 13 | 158                     | 141 | 123 | 46                                |  |
|                           | 32                            | APR 14                  | APR 30 | MAY 15 | SEP 25                  | OCT 11 | OCT 28 | 185                     | 164 | 144 | 38                                |  |
|                           | 28                            | APR 01                  | APR 16 | APR 30 | OCT 10                  | OCT 27 | NOV 12 | 217                     | 193 | 169 | 29                                |  |
| COLUMBUS                  | 36                            | APR 18                  | MAY 02 | MAY 16 | SEP 27                  | OCT 06 | OCT 16 | 173                     | 156 | 139 | 42                                |  |
|                           | 32                            | APR 05                  | APR 20 | MAY 04 | OCT 04                  | OCT 17 | OCT 30 | 198                     | 179 | 160 | 35                                |  |
|                           | 28                            | MAR 27                  | APR 07 | APR 17 | OCT 12                  | OCT 27 | NOV 11 | 220                     | 203 | 185 | 27                                |  |
| CRANE NAVAL DEPOT         | 36                            | APR 15                  | MAY 01 | MAY 16 | SEP 30                  | OCT 14 | OCT 27 | 183                     | 166 | 148 | 34                                |  |
|                           | 32                            | MAR 30                  | APR 13 | APR 28 | OCT 12                  | OCT 25 | NOV 07 | 211                     | 194 | 176 | 27                                |  |
|                           | 28                            | MAR 23                  | APR 04 | APR 16 | OCT 21                  | NOV 05 | NOV 19 | 235                     | 214 | 193 | 20                                |  |
| CRAWFORDSVILLE PWR PL     | 36                            | APR 25                  | MAY 10 | MAY 25 | SEP 21                  | OCT 03 | OCT 15 | 161                     | 145 | 129 | 44                                |  |
|                           | 32                            | APR 12                  | APR 28 | MAY 15 | OCT 04                  | OCT 16 | OCT 28 | 189                     | 170 | 151 | 37                                |  |
|                           | 28                            | MAR 30                  | APR 11 | APR 24 | OCT 14                  | OCT 28 | NOV 11 | 217                     | 199 | 181 | 28                                |  |
| DELPHI 3 NNE              | 36                            | APR 24                  | MAY 10 | MAY 25 | SEP 15                  | SEP 28 | OCT 12 | 162                     | 141 | 120 | 42                                |  |
|                           | 32                            | APR 18                  | MAY 02 | MAY 16 | SEP 23                  | OCT 06 | OCT 20 | 172                     | 156 | 140 | 35                                |  |
|                           | 28                            | APR 01                  | APR 17 | MAY 03 | OCT 07                  | OCT 22 | NOV 06 | 211                     | 187 | 163 | 27                                |  |
| EDWARDSPORT POWER PL      | 36                            | APR 11                  | APR 28 | MAY 14 | SEP 29                  | OCT 11 | OCT 24 | 186                     | 166 | 146 | 40                                |  |
|                           | 32                            | MAR 30                  | APR 13 | APR 27 | OCT 08                  | OCT 22 | NOV 04 | 208                     | 191 | 173 | 32                                |  |
|                           | 28                            | MAR 21                  | APR 02 | APR 15 | OCT 16                  | OCT 31 | NOV 14 | 231                     | 211 | 190 | 24                                |  |
| ELWOOD WATERWORKS         | 36                            | APR 25                  | MAY 10 | MAY 25 | SEP 16                  | SEP 29 | OCT 12 | 160                     | 141 | 122 | 45                                |  |
|                           | 32                            | APR 17                  | MAY 02 | MAY 17 | SEP 24                  | OCT 08 | OCT 21 | 179                     | 158 | 136 | 39                                |  |
|                           | 28                            | MAR 31                  | APR 16 | MAY 01 | OCT 03                  | OCT 19 | NOV 03 | 207                     | 185 | 163 | 30                                |  |
| EVANSVILLE                | 36                            | APR 05                  | APR 23 | MAY 10 | OCT 04                  | OCT 17 | OCT 29 | 196                     | 176 | 157 | 31                                |  |
|                           | 32                            | MAR 25                  | APR 09 | APR 23 | OCT 12                  | OCT 26 | NOV 09 | 217                     | 199 | 182 | 24                                |  |
|                           | 28                            | MAR 13                  | MAR 26 | APR 09 | OCT 22                  | NOV 05 | NOV 19 | 244                     | 223 | 203 | 16                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| <b>INDIANA</b>            |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| FRANKFORT DISPOSAL PL     | 36                            | APR 22                  | MAY 08 | MAY 25 | SEP 11                  | SEP 27 | OCT 13 | 163                     | 141 | 118 | 44                                |  |
|                           | 32                            | APR 15                  | MAY 02 | MAY 19 | SEP 25                  | OCT 09 | OCT 23 | 181                     | 160 | 139 | 38                                |  |
|                           | 28                            | MAR 31                  | APR 17 | MAY 03 | OCT 06                  | OCT 19 | OCT 31 | 205                     | 184 | 163 | 29                                |  |
| GOSHEN COLLEGE            | 36                            | APR 30                  | MAY 13 | MAY 26 | SEP 14                  | SEP 26 | OCT 08 | 153                     | 135 | 118 | 44                                |  |
|                           | 32                            | APR 20                  | MAY 04 | MAY 19 | SEP 25                  | OCT 10 | OCT 25 | 177                     | 158 | 139 | 37                                |  |
|                           | 28                            | APR 05                  | APR 17 | APR 30 | OCT 08                  | OCT 24 | NOV 09 | 207                     | 189 | 171 | 28                                |  |
| GREENCASTLE 1 E           | 36                            | APR 20                  | MAY 05 | MAY 19 | SEP 28                  | OCT 10 | OCT 22 | 174                     | 158 | 141 | 40                                |  |
|                           | 32                            | APR 06                  | APR 21 | MAY 07 | OCT 04                  | OCT 18 | OCT 31 | 198                     | 179 | 159 | 34                                |  |
|                           | 28                            | MAR 28                  | APR 09 | APR 21 | OCT 17                  | OCT 31 | NOV 14 | 225                     | 204 | 184 | 26                                |  |
| GREENFIELD                | 36                            | APR 22                  | MAY 07 | MAY 21 | SEP 27                  | OCT 09 | OCT 20 | 173                     | 155 | 136 | 42                                |  |
|                           | 32                            | APR 10                  | APR 26 | MAY 12 | OCT 02                  | OCT 17 | OCT 31 | 195                     | 173 | 152 | 35                                |  |
|                           | 28                            | MAR 30                  | APR 12 | APR 25 | OCT 13                  | OCT 28 | NOV 11 | 217                     | 198 | 180 | 26                                |  |
| GREENSBURG 3 SW           | 36                            | APR 29                  | MAY 12 | MAY 25 | SEP 14                  | SEP 25 | OCT 07 | 154                     | 136 | 117 | 41                                |  |
|                           | 32                            | APR 20                  | MAY 05 | MAY 20 | SEP 21                  | OCT 06 | OCT 21 | 173                     | 153 | 133 | 34                                |  |
|                           | 28                            | MAR 31                  | APR 20 | MAY 10 | OCT 03                  | OCT 16 | OCT 29 | 204                     | 178 | 153 | 26                                |  |
| HOBART                    | 36                            | APR 30                  | MAY 16 | MAY 31 | SEP 24                  | OCT 05 | OCT 16 | 157                     | 142 | 126 | 43                                |  |
|                           | 32                            | APR 14                  | MAY 01 | MAY 17 | OCT 02                  | OCT 16 | OCT 29 | 186                     | 167 | 149 | 36                                |  |
|                           | 28                            | APR 04                  | APR 18 | MAY 02 | OCT 15                  | OCT 29 | NOV 12 | 215                     | 193 | 172 | 27                                |  |
| HUNTINGTON                | 36                            | APR 27                  | MAY 12 | MAY 27 | SEP 17                  | SEP 28 | OCT 09 | 156                     | 138 | 121 | 43                                |  |
|                           | 32                            | APR 19                  | MAY 03 | MAY 16 | SEP 27                  | OCT 11 | OCT 25 | 177                     | 161 | 145 | 36                                |  |
|                           | 28                            | APR 02                  | APR 18 | MAY 05 | OCT 07                  | OCT 23 | NOV 07 | 210                     | 187 | 163 | 27                                |  |
| INDIANAPOLIS WSO          | 36                            | APR 17                  | MAY 03 | MAY 19 | SEP 28                  | OCT 09 | OCT 19 | 178                     | 158 | 137 | 40                                |  |
|                           | 32                            | APR 05                  | APR 22 | MAY 09 | OCT 07                  | OCT 20 | NOV 02 | 201                     | 180 | 160 | 33                                |  |
|                           | 28                            | MAR 27                  | APR 09 | APR 23 | OCT 13                  | OCT 28 | NOV 11 | 220                     | 201 | 181 | 25                                |  |
| INDIANAPOLIS SE SIDE      | 36                            | APR 13                  | APR 28 | MAY 13 | SEP 30                  | OCT 14 | OCT 27 | 189                     | 168 | 147 | 40                                |  |
|                           | 32                            | APR 03                  | APR 18 | MAY 03 | OCT 09                  | OCT 22 | NOV 04 | 205                     | 186 | 167 | 32                                |  |
|                           | 28                            | MAR 25                  | APR 07 | APR 20 | OCT 18                  | NOV 01 | NOV 14 | 225                     | 207 | 188 | 24                                |  |
| JOHNSON EXP FARM          | 36                            | APR 09                  | APR 26 | MAY 13 | SEP 29                  | OCT 11 | OCT 24 | 188                     | 168 | 147 | 35                                |  |
|                           | 32                            | MAR 29                  | APR 13 | APR 28 | OCT 08                  | OCT 22 | NOV 05 | 209                     | 192 | 174 | 27                                |  |
|                           | 28                            | MAR 18                  | MAR 31 | APR 13 | OCT 19                  | OCT 31 | NOV 13 | 232                     | 214 | 195 | 20                                |  |
| KENTLAND                  | 35                            | APR 23                  | MAY 09 | MAY 25 | SEP 17                  | SEP 28 | OCT 10 | 160                     | 142 | 124 | 42                                |  |
|                           | 32                            | APR 12                  | APR 29 | MAY 15 | SEP 27                  | OCT 12 | OCT 26 | 184                     | 165 | 147 | 36                                |  |
|                           | 28                            | MAR 30                  | APR 15 | APR 30 | OCT 12                  | OCT 27 | NOV 10 | 216                     | 194 | 172 | 27                                |  |
| KOKOMO 7 SE               | 36                            | APR 24                  | MAY 08 | MAY 21 | SEP 20                  | OCT 04 | OCT 19 | 166                     | 149 | 132 | 43                                |  |
|                           | 32                            | APR 12                  | APR 28 | MAY 14 | SEP 30                  | OCT 15 | OCT 29 | 191                     | 169 | 147 | 36                                |  |
|                           | 28                            | MAR 31                  | APR 18 | MAY 07 | OCT 11                  | OCT 26 | NOV 09 | 214                     | 190 | 165 | 27                                |  |
| LA PORTE                  | 36                            | APR 25                  | MAY 12 | MAY 29 | SEP 18                  | OCT 04 | OCT 21 | 169                     | 144 | 119 | 44                                |  |
|                           | 32                            | APR 16                  | MAY 01 | MAY 15 | OCT 02                  | OCT 16 | OCT 30 | 188                     | 168 | 147 | 37                                |  |
|                           | 28                            | APR 02                  | APR 16 | APR 29 | OCT 13                  | OCT 29 | NOV 14 | 215                     | 196 | 177 | 29                                |  |
| MARION 2 N                | 36                            | APR 29                  | MAY 13 | MAY 27 | SEP 17                  | SEP 30 | OCT 12 | 156                     | 139 | 122 | 46                                |  |
|                           | 32                            | APR 19                  | MAY 03 | MAY 17 | SEP 27                  | OCT 11 | OCT 26 | 178                     | 160 | 143 | 39                                |  |
|                           | 28                            | APR 06                  | APR 20 | MAY 03 | OCT 08                  | OCT 23 | NOV 07 | 208                     | 186 | 164 | 30                                |  |
| MOUNT VERNON              | 36                            | APR 05                  | APR 22 | MAY 09 | OCT 01                  | OCT 15 | OCT 28 | 199                     | 175 | 150 | 36                                |  |
|                           | 32                            | MAR 24                  | APR 07 | APR 21 | OCT 12                  | OCT 26 | NOV 09 | 221                     | 201 | 181 | 28                                |  |
|                           | 28                            | MAR 16                  | MAR 29 | APR 11 | OCT 20                  | NOV 02 | NOV 16 | 239                     | 217 | 196 | 20                                |  |
| NEW CASTLE                | 36                            | APR 25                  | MAY 08 | MAY 21 | SEP 18                  | SEP 30 | OCT 13 | 161                     | 145 | 129 | 45                                |  |
|                           | 32                            | APR 18                  | MAY 01 | MAY 15 | SEP 25                  | OCT 09 | OCT 24 | 181                     | 161 | 140 | 38                                |  |
|                           | 28                            | APR 02                  | APR 16 | MAY 01 | OCT 07                  | OCT 23 | NOV 07 | 212                     | 189 | 166 | 29                                |  |
| NORTH VERNON 2 SW         | 36                            | APR 20                  | MAY 08 | MAY 25 | SEP 23                  | OCT 05 | OCT 16 | 170                     | 149 | 128 | 38                                |  |
|                           | 32                            | APR 14                  | APR 29 | MAY 14 | OCT 02                  | OCT 16 | OCT 30 | 189                     | 169 | 150 | 30                                |  |
|                           | 28                            | MAR 28                  | APR 11 | APR 25 | OCT 10                  | OCT 24 | NOV 07 | 213                     | 196 | 178 | 22                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| INDIANA                   |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| OAKLANDON GEIST RESVR     | 36<br>32<br>28                | APR 22<br>APR 17<br>MAR 29 | MAY 10<br>APR 30<br>APR 19 | MAY 27<br>MAY 14<br>MAY 10 | SEP 21<br>SEP 29<br>OCT 11 | OCT 02<br>OCT 12<br>OCT 25 | OCT 13<br>OCT 24<br>NOV 08 | 165<br>182<br>212       | 145<br>164<br>188 | 125<br>145<br>163 | 42<br>36<br>27                    |  |
| OGDEN DUNES               | 36<br>32<br>28                | APR 16<br>APR 07<br>MAR 26 | MAY 10<br>APR 28<br>APR 15 | JUN 03<br>MAY 19<br>MAY 05 | SEP 24<br>OCT 04<br>OCT 17 | OCT 10<br>OCT 21<br>OCT 31 | OCT 26<br>NOV 07<br>NOV 14 | 184<br>205<br>229       | 152<br>175<br>199 | 121<br>146<br>169 | 42<br>34<br>25                    |  |
| DOLITIC PURDUE EXP FRM    | 36<br>32<br>28                | APR 20<br>APR 13<br>MAR 26 | MAY 05<br>APR 27<br>APR 10 | MAY 20<br>MAY 11<br>APR 24 | SEP 25<br>OCT 03<br>OCT 09 | OCT 04<br>OCT 13<br>OCT 23 | OCT 14<br>OCT 23<br>NOV 07 | 169<br>187<br>212       | 152<br>168<br>196 | 134<br>149<br>180 | 40<br>33<br>25                    |  |
| PAOLI RADIO WVAK          | 36<br>32<br>28                | APR 26<br>APR 16<br>MAR 31 | MAY 12<br>MAY 02<br>APR 18 | MAY 27<br>MAY 18<br>MAY 07 | SEP 17<br>SEP 28<br>OCT 04 | SEP 28<br>OCT 07<br>OCT 16 | OCT 09<br>OCT 17<br>OCT 28 | 159<br>176<br>201       | 139<br>157<br>180 | 118<br>139<br>159 | 43<br>35<br>28                    |  |
| PLYMOUTH POWER SUBSTA     | 36<br>32<br>28                | MAY 01<br>APR 22<br>APR 06 | MAY 18<br>MAY 06<br>APR 23 | JUN 03<br>MAY 20<br>MAY 10 | SEP 09<br>SEP 22<br>OCT 06 | SEP 24<br>OCT 05<br>OCT 20 | OCT 09<br>OCT 19<br>NOV 02 | 150<br>166<br>200       | 129<br>152<br>179 | 107<br>137<br>157 | 45<br>38<br>29                    |  |
| PRINCETON 1 H             | 36<br>32<br>28                | APR 09<br>APR 03<br>MAR 19 | APR 27<br>APR 16<br>APR 03 | MAY 15<br>APR 30<br>APR 19 | SEP 29<br>OCT 04<br>OCT 20 | OCT 09<br>OCT 20<br>NOV 02 | OCT 20<br>NOV 05<br>NOV 15 | 185<br>207<br>232       | 165<br>186<br>212 | 144<br>165<br>192 | 35<br>27<br>20                    |  |
| RICHMOND HTR WKS 2 NNE    | 36<br>32<br>28                | APR 25<br>APR 18<br>APR 06 | MAY 11<br>MAY 02<br>APR 19 | MAY 27<br>MAY 16<br>MAY 03 | SEP 16<br>SEP 27<br>OCT 10 | SEP 29<br>OCT 08<br>OCT 22 | OCT 12<br>OCT 18<br>NOV 02 | 159<br>175<br>202       | 141<br>158<br>185 | 122<br>140<br>167 | 44<br>37<br>28                    |  |
| ROCHESTER                 | 36<br>32<br>28                | MAY 02<br>APR 15<br>APR 05 | MAY 16<br>MAY 01<br>APR 19 | MAY 31<br>MAY 18<br>MAY 03 | SEP 12<br>SEP 24<br>OCT 04 | SEP 25<br>OCT 09<br>OCT 19 | OCT 08<br>OCT 25<br>NOV 03 | 152<br>178<br>205       | 131<br>160<br>182 | 109<br>142<br>160 | 47<br>40<br>32                    |  |
| ROCKVILLE                 | 36<br>32<br>28                | APR 20<br>APR 13<br>MAR 27 | MAY 06<br>APR 28<br>APR 08 | MAY 23<br>MAY 14<br>APR 21 | SEP 29<br>OCT 06<br>OCT 17 | OCT 08<br>OCT 19<br>OCT 30 | OCT 17<br>NOV 01<br>NOV 12 | 174<br>194<br>222       | 154<br>173<br>204 | 134<br>152<br>185 | 40<br>33<br>24                    |  |
| RUSHVILLE SEWAGE PLANT    | 36<br>32<br>28                | APR 22<br>APR 13<br>MAR 30 | MAY 07<br>APR 29<br>APR 14 | MAY 21<br>MAY 15<br>APR 29 | SEP 20<br>SEP 29<br>OCT 11 | OCT 02<br>OCT 11<br>OCT 24 | OCT 13<br>OCT 23<br>NOV 07 | 165<br>186<br>214       | 148<br>165<br>193 | 131<br>144<br>172 | 43<br>36<br>27                    |  |
| SCOTTSBURG                | 36<br>32<br>28                | APR 21<br>APR 09<br>MAR 29 | MAY 06<br>APR 25<br>APR 10 | MAY 22<br>MAY 10<br>APR 23 | SEP 23<br>OCT 01<br>OCT 09 | OCT 04<br>OCT 12<br>OCT 23 | OCT 15<br>CCT 24<br>NOV 06 | 167<br>187<br>212       | 150<br>170<br>195 | 133<br>152<br>178 | 41<br>33<br>25                    |  |
| SEYMOUR 2 N               | 36<br>32<br>28                | APR 20<br>APR 09<br>MAR 30 | MAY 07<br>APR 25<br>APR 11 | MAY 23<br>MAY 11<br>APR 24 | SEP 19<br>SEP 30<br>OCT 08 | OCT 01<br>OCT 13<br>OCT 24 | OCT 13<br>OCT 27<br>NOV 09 | 166<br>193<br>213       | 147<br>171<br>195 | 128<br>149<br>176 | 43<br>36<br>27                    |  |
| SHELBYVILLE SEWAGE PL     | 36<br>32<br>28                | APR 19<br>APR 11<br>MAR 30 | MAY 05<br>APR 26<br>APR 12 | MAY 20<br>MAY 11<br>APR 25 | SEP 21<br>OCT 02<br>OCT 09 | OCT 04<br>OCT 12<br>OCT 25 | OCT 17<br>OCT 23<br>NOV 09 | 170<br>188<br>217       | 152<br>168<br>195 | 134<br>148<br>172 | 42<br>35<br>26                    |  |
| SHOALS HIWAY 50 BRIDGE    | 36<br>32<br>28                | APR 18<br>APR 14<br>MAR 25 | MAY 05<br>APR 29<br>APR 10 | MAY 22<br>MAY 15<br>APR 26 | SEP 23<br>OCT 02<br>OCT 12 | OCT 04<br>OCT 13<br>OCT 26 | OCT 15<br>OCT 24<br>NOV 08 | 168<br>187<br>215       | 151<br>166<br>198 | 133<br>146<br>181 | 42<br>35<br>26                    |  |
| SOUTH BEND WSO            | 36<br>32<br>28                | APR 27<br>APR 16<br>APR 01 | MAY 12<br>MAY 01<br>APR 15 | MAY 27<br>MAY 15<br>APR 30 | SEP 20<br>OCT 05<br>OCT 16 | OCT 06<br>OCT 18<br>NOV 01 | OCT 21<br>OCT 30<br>NOV 17 | 166<br>184<br>219       | 146<br>169<br>199 | 125<br>155<br>180 | 43<br>36<br>27                    |  |
| SPENCER                   | 36<br>32<br>28                | APR 23<br>APR 13<br>MAR 31 | MAY 09<br>APR 30<br>APR 16 | MAY 25<br>MAY 18<br>MAY 01 | SEP 19<br>OCT 02<br>OCT 10 | OCT 01<br>OCT 12<br>OCT 24 | OCT 13<br>OCT 22<br>NOV 07 | 159<br>184<br>210       | 145<br>164<br>191 | 130<br>144<br>171 | 43<br>36<br>28                    |  |
| TELL CITY POWER PLANT     | 36<br>32<br>28                | APR 10<br>MAR 25<br>MAR 14 | APR 26<br>APR 10<br>MAR 28 | MAY 11<br>APR 26<br>APR 12 | OCT 02<br>OCT 11<br>OCT 24 | OCT 14<br>OCT 25<br>NOV 06 | OCT 26<br>NOV 08<br>NOV 20 | 190<br>215<br>242       | 170<br>197<br>223 | 150<br>179<br>203 | 36<br>28<br>19                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| INDIANA                   |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| TERRE HAUTE 8 S           | 36<br>32<br>28                | APR 19<br>APR 05<br>MAR 26 | MAY 06<br>APR 23<br>APR 07 | MAY 23<br>MAY 11<br>APR 19 | SEP 23<br>OCT 03<br>OCT 12 | OCT 06<br>OCT 15<br>OCT 26 | OCT 18<br>OCT 28<br>NOV 10 | 171<br>196<br>220       | 152<br>174<br>202 | 133<br>153<br>184 | 40<br>33<br>24                    |  |
| VALPARAISO WATERWORKS     | 36<br>32<br>28                | APR 29<br>APR 19<br>APR 05 | MAY 14<br>MAY 02<br>APR 18 | MAY 30<br>MAY 15<br>MAY 01 | SEP 16<br>SEP 29<br>OCT 13 | SEP 29<br>OCT 15<br>OCT 27 | OCT 12<br>OCT 30<br>NOV 09 | 154<br>183<br>209       | 137<br>165<br>191 | 120<br>147<br>172 | 44<br>37<br>29                    |  |
| VEVAY                     | 36<br>32<br>28                | APR 18<br>APR 07<br>MAR 24 | MAY 04<br>APR 22<br>APR 08 | MAY 19<br>MAY 06<br>APR 23 | SEP 28<br>OCT 08<br>OCT 20 | OCT 12<br>OCT 23<br>NOV 01 | OCT 26<br>NOV 06<br>NOV 13 | 181<br>205<br>225       | 161<br>183<br>206 | 141<br>161<br>187 | 38<br>30<br>21                    |  |
| VINCENNES 1 NW            | 36<br>32<br>28                | APR 14<br>MAR 30<br>MAR 20 | APR 30<br>APR 13<br>APR 03 | MAY 15<br>APR 27<br>APR 16 | SEP 27<br>OCT 04<br>OCT 20 | OCT 08<br>OCT 19<br>OCT 31 | OCT 18<br>NOV 03<br>NOV 11 | 180<br>204<br>227       | 160<br>188<br>210 | 140<br>172<br>193 | 39<br>32<br>24                    |  |
| WABASH                    | 36<br>32<br>28                | APR 27<br>APR 20<br>APR 06 | MAY 14<br>MAY 08<br>APR 23 | MAY 30<br>MAY 25<br>MAY 11 | SEP 12<br>SEP 20<br>OCT 01 | SEP 26<br>OCT 05<br>OCT 18 | OCT 09<br>OCT 19<br>NOV 03 | 155<br>170<br>200       | 134<br>149<br>177 | 113<br>127<br>154 | 48<br>41<br>31                    |  |
| WASHINGTON                | 36<br>32<br>28                | APR 09<br>MAR 26<br>MAR 15 | APR 26<br>APR 11<br>APR 01 | MAY 13<br>APR 27<br>APR 18 | SEP 28<br>OCT 10<br>OCT 21 | OCT 13<br>OCT 24<br>NOV 02 | OCT 29<br>NOV 08<br>NOV 15 | 193<br>217<br>236       | 169<br>196<br>214 | 146<br>175<br>192 | 34<br>26<br>19                    |  |
| WATERLOO                  | 36<br>32<br>28                | MAY 03<br>APR 23<br>APR 10 | MAY 19<br>MAY 09<br>APR 25 | JUN 03<br>MAY 25<br>MAY 11 | SEP 12<br>SEP 20<br>OCT 03 | SEP 25<br>OCT 01<br>OCT 18 | OCT 07<br>OCT 13<br>NOV 02 | 148<br>166<br>195       | 128<br>145<br>175 | 109<br>124<br>154 | 47<br>40<br>31                    |  |
| WEST LAFAYETTE 6 NW       | 36<br>32<br>28                | APR 22<br>APR 14<br>MAR 31 | MAY 08<br>MAY 01<br>APR 15 | MAY 24<br>MAY 19<br>MAY 01 | SEP 13<br>SEP 27<br>OCT 09 | SEP 28<br>OCT 12<br>OCT 25 | OCT 14<br>OCT 26<br>NOV 09 | 166<br>187<br>217       | 142<br>163<br>192 | 119<br>139<br>166 | 44<br>37<br>29                    |  |
| WHEATFIELD 2 NNW          | 36<br>32<br>28                | MAY 06<br>APR 21<br>APR 10 | MAY 19<br>MAY 06<br>APR 24 | JUN 01<br>MAY 21<br>MAY 07 | SEP 03<br>SEP 18<br>SEP 25 | SEP 20<br>OCT 01<br>OCT 11 | OCT 07<br>OCT 15<br>OCT 27 | 145<br>164<br>190       | 123<br>147<br>170 | 102<br>130<br>149 | 48<br>41<br>33                    |  |
| WHitestown                | 36<br>32<br>28                | APR 26<br>APR 15<br>APR 01 | MAY 11<br>APR 29<br>APR 16 | MAY 25<br>MAY 14<br>MAY 01 | SEP 17<br>SEP 29<br>OCT 09 | SEP 30<br>OCT 12<br>OCT 23 | OCT 13<br>OCT 25<br>NOV 05 | 157<br>181<br>210       | 142<br>165<br>189 | 126<br>148<br>168 | 43<br>37<br>28                    |  |
| WINAMAC 5 SW              | 36<br>32<br>28                | APR 30<br>APR 19<br>APR 05 | MAY 16<br>MAY 07<br>APR 23 | JUN 02<br>MAY 25<br>MAY 10 | SEP 06<br>SEP 23<br>SEP 29 | SEP 25<br>OCT 08<br>OCT 18 | OCT 15<br>OCT 24<br>NOV 06 | 158<br>173<br>204       | 131<br>154<br>178 | 104<br>135<br>152 | 45<br>38<br>30                    |  |
| WINCHESTER AIRPORT        | 36<br>32<br>28                | APR 24<br>APR 20<br>APR 04 | MAY 09<br>MAY 03<br>APR 17 | MAY 24<br>MAY 17<br>APR 29 | SEP 07<br>SEP 28<br>OCT 12 | SEP 25<br>OCT 11<br>OCT 26 | OCT 12<br>OCT 25<br>NOV 09 | 161<br>178<br>210       | 138<br>160<br>192 | 115<br>143<br>174 | 44<br>38<br>29                    |  |
| IOWA                      |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ALBIA                     | 36<br>32<br>28                | APR 20<br>APR 10<br>MAR 30 | MAY 04<br>APR 23<br>APR 11 | MAY 18<br>MAY 07<br>APR 22 | SEP 25<br>OCT 01<br>OCT 11 | OCT 05<br>OCT 16<br>OCT 26 | OCT 16<br>NOV 01<br>NOV 11 | 167<br>195<br>217       | 154<br>175<br>198 | 141<br>156<br>179 | 42<br>36<br>28                    |  |
| ALGONA 3 W                | 36<br>32<br>28                | MAY 02<br>APR 20<br>APR 07 | MAY 12<br>MAY 03<br>APR 22 | MAY 22<br>MAY 17<br>MAY 07 | SEP 14<br>SEP 24<br>OCT 01 | SEP 26<br>OCT 06<br>OCT 16 | OCT 08<br>OCT 17<br>OCT 31 | 152<br>169<br>197       | 136<br>155<br>176 | 120<br>140<br>154 | 50<br>44<br>37                    |  |
| ALLISON                   | 36<br>32<br>28                | APR 29<br>APR 20<br>MAR 31 | MAY 12<br>MAY 03<br>APR 17 | MAY 25<br>MAY 15<br>MAY 03 | SEP 11<br>SEP 26<br>OCT 04 | SEP 25<br>OCT 09<br>OCT 18 | OCT 10<br>OCT 22<br>NOV 01 | 155<br>173<br>202       | 136<br>159<br>184 | 117<br>145<br>165 | 48<br>42<br>34                    |  |
| AMES 8 HSW                | 36<br>32<br>28                | APR 27<br>APR 14<br>APR 01 | MAY 09<br>APR 28<br>APR 15 | MAY 22<br>MAY 12<br>APR 29 | SEP 15<br>SEP 26<br>OCT 07 | SEP 29<br>OCT 08<br>OCT 21 | OCT 12<br>OCT 20<br>NOV 03 | 159<br>181<br>205       | 142<br>162<br>188 | 125<br>144<br>171 | 47<br>41<br>33                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (*) |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                 |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                 |  |
| IOWA                      |                               |                         |        |        |                         |        |        |                         |     |     |                                 |  |
| ANAMOSA 1 WNW             | 36                            | MAY 04                  | MAY 18 | JUN 02 | SEP 07                  | SEP 20 | OCT 04 | 144                     | 124 | 105 | 49                              |  |
|                           | 32                            | APR 24                  | MAY 10 | MAY 26 | SEP 15                  | SEP 30 | OCT 14 | 160                     | 142 | 123 | 43                              |  |
|                           | 28                            | APR 12                  | APR 27 | MAY 12 | SEP 24                  | OCT 08 | OCT 23 | 184                     | 163 | 143 | 35                              |  |
| ANKENY 2 SW               | 36                            | APR 25                  | MAY 08 | MAY 21 | SEP 16                  | SEP 29 | OCT 13 | 159                     | 144 | 128 | 46                              |  |
|                           | 32                            | APR 14                  | APR 28 | MAY 12 | SEP 27                  | OCT 10 | OCT 23 | 182                     | 164 | 146 | 40                              |  |
|                           | 28                            | APR 02                  | APR 14 | APR 25 | OCT 05                  | OCT 19 | NOV 01 | 204                     | 188 | 171 | 33                              |  |
| ATLANTIC 1 NE             | 36                            | MAY 02                  | MAY 16 | MAY 30 | SEP 05                  | SEP 17 | SEP 29 | 144                     | 124 | 103 | 48                              |  |
|                           | 32                            | APR 25                  | MAY 09 | MAY 23 | SEP 14                  | SEP 28 | OCT 12 | 159                     | 141 | 124 | 43                              |  |
|                           | 28                            | APR 15                  | APR 29 | MAY 13 | SEP 21                  | OCT 05 | OCT 19 | 172                     | 159 | 145 | 36                              |  |
| AUDUBON                   | 36                            | APR 30                  | MAY 11 | MAY 22 | SEP 10                  | SEP 25 | OCT 09 | 152                     | 136 | 120 | 47                              |  |
|                           | 32                            | APR 15                  | APR 30 | MAY 15 | SEP 20                  | OCT 04 | OCT 18 | 173                     | 156 | 139 | 42                              |  |
|                           | 28                            | APR 06                  | APR 22 | MAY 07 | SEP 30                  | OCT 15 | OCT 30 | 197                     | 175 | 154 | 35                              |  |
| BEDFORD                   | 36                            | APR 22                  | MAY 07 | MAY 21 | SEP 17                  | SEP 30 | OCT 13 | 165                     | 145 | 126 | 44                              |  |
|                           | 32                            | APR 17                  | APR 28 | MAY 10 | SEP 24                  | OCT 08 | OCT 22 | 182                     | 162 | 141 | 38                              |  |
|                           | 28                            | MAR 31                  | APR 14 | APR 28 | OCT 03                  | OCT 19 | NOV 03 | 207                     | 187 | 167 | 31                              |  |
| BELLE PLAINE              | 36                            | MAY 01                  | MAY 14 | MAY 26 | SEP 12                  | SEP 27 | OCT 11 | 153                     | 135 | 118 | 47                              |  |
|                           | 32                            | APR 17                  | MAY 01 | MAY 14 | SEP 21                  | OCT 05 | OCT 19 | 173                     | 157 | 140 | 41                              |  |
|                           | 28                            | APR 06                  | APR 18 | APR 30 | OCT 02                  | OCT 16 | OCT 30 | 199                     | 180 | 161 | 33                              |  |
| BELLEVUE L AND D NO 12    | 36                            | APR 25                  | MAY 13 | MAY 30 | SEP 16                  | SEP 27 | OCT 07 | 154                     | 136 | 119 | 46                              |  |
|                           | 32                            | APR 19                  | MAY 04 | MAY 19 | SEP 24                  | OCT 07 | OCT 21 | 171                     | 156 | 141 | 40                              |  |
|                           | 28                            | APR 04                  | APR 18 | MAY 01 | OCT 03                  | OCT 18 | NOV 02 | 203                     | 183 | 162 | 32                              |  |
| BLOOMFIELD                | 36                            | APR 22                  | MAY 07 | MAY 22 | SEP 17                  | OCT 02 | OCT 17 | 167                     | 147 | 128 | 44                              |  |
|                           | 32                            | APR 08                  | APR 23 | MAY 07 | SEP 24                  | OCT 10 | OCT 26 | 191                     | 170 | 149 | 38                              |  |
|                           | 28                            | MAR 30                  | APR 12 | APR 25 | OCT 09                  | OCT 24 | NOV 08 | 214                     | 194 | 174 | 30                              |  |
| BOONE                     | 36                            | APR 24                  | MAY 10 | MAY 26 | SEP 12                  | SEP 26 | OCT 09 | 161                     | 138 | 114 | 48                              |  |
|                           | 32                            | APR 16                  | MAY 01 | MAY 15 | SEP 23                  | OCT 06 | OCT 19 | 174                     | 157 | 141 | 42                              |  |
|                           | 28                            | APR 05                  | APR 20 | MAY 05 | OCT 01                  | OCT 15 | OCT 29 | 198                     | 178 | 158 | 35                              |  |
| BRITT                     | 36                            | APR 29                  | MAY 14 | MAY 28 | SEP 11                  | SEP 24 | OCT 06 | 150                     | 132 | 114 | 49                              |  |
|                           | 32                            | APR 24                  | MAY 05 | MAY 17 | SEP 24                  | OCT 06 | OCT 17 | 169                     | 153 | 136 | 44                              |  |
|                           | 28                            | APR 05                  | APR 22 | MAY 10 | SEP 30                  | OCT 16 | OCT 31 | 200                     | 175 | 151 | 36                              |  |
| CARROLL 2 SSW             | 36                            | MAY 02                  | MAY 16 | MAY 31 | SEP 01                  | SEP 17 | OCT 04 | 144                     | 123 | 103 | 50                              |  |
|                           | 32                            | APR 20                  | MAY 06 | MAY 21 | SEP 11                  | SEP 28 | OCT 15 | 165                     | 145 | 125 | 44                              |  |
|                           | 28                            | APR 14                  | APR 28 | MAY 12 | SEP 17                  | OCT 05 | OCT 23 | 180                     | 159 | 138 | 37                              |  |
| CASCADE                   | 36                            | MAY 01                  | MAY 15 | MAY 29 | SEP 09                  | SEP 20 | SEP 30 | 142                     | 127 | 111 | 49                              |  |
|                           | 32                            | APR 21                  | MAY 06 | MAY 22 | SEP 17                  | SEP 30 | OCT 13 | 159                     | 146 | 133 | 43                              |  |
|                           | 28                            | APR 09                  | APR 23 | MAY 07 | SEP 26                  | OCT 11 | OCT 27 | 193                     | 170 | 148 | 35                              |  |
| CASTANA EXP FARM          | 36                            | APR 28                  | MAY 10 | MAY 21 | SEP 14                  | SEP 28 | OCT 11 | 157                     | 140 | 123 | 47                              |  |
|                           | 32                            | APR 15                  | APR 30 | MAY 16 | SEP 26                  | OCT 09 | OCT 22 | 179                     | 161 | 142 | 41                              |  |
|                           | 28                            | APR 08                  | APR 22 | MAY 05 | SEP 30                  | OCT 15 | OCT 30 | 195                     | 175 | 155 | 34                              |  |
| CEDAR RAPIDS NO 1         | 36                            | MAY 01                  | MAY 13 | MAY 25 | SEP 16                  | SEP 29 | OCT 13 | 154                     | 139 | 124 | 45                              |  |
|                           | 32                            | APR 15                  | APR 29 | MAY 13 | SEP 25                  | OCT 07 | OCT 19 | 176                     | 161 | 145 | 40                              |  |
|                           | 28                            | MAR 31                  | APR 14 | APR 28 | OCT 07                  | OCT 21 | NOV 05 | 210                     | 190 | 170 | 32                              |  |
| CENTERVILLE 4 SSW         | 36                            | APR 20                  | MAY 05 | MAY 20 | SEP 19                  | OCT 03 | OCT 17 | 169                     | 151 | 133 | 43                              |  |
|                           | 32                            | APR 10                  | APR 23 | MAY 07 | SEP 28                  | OCT 13 | OCT 28 | 192                     | 172 | 151 | 37                              |  |
|                           | 28                            | MAR 29                  | APR 11 | APR 24 | OCT 11                  | OCT 25 | NOV 09 | 218                     | 197 | 176 | 29                              |  |
| CHARITON                  | 36                            | APR 29                  | MAY 14 | MAY 29 | SEP 07                  | SEP 24 | OCT 11 | 153                     | 132 | 112 | 46                              |  |
|                           | 32                            | APR 19                  | MAY 03 | MAY 17 | SEP 19                  | OCT 03 | OCT 17 | 163                     | 152 | 141 | 40                              |  |
|                           | 28                            | APR 05                  | APR 20 | MAY 04 | SEP 30                  | OCT 13 | OCT 27 | 193                     | 176 | 159 | 32                              |  |
| CHARLES CITY              | 36                            | APR 29                  | MAY 12 | MAY 25 | SEP 12                  | SEP 24 | OCT 05 | 152                     | 134 | 115 | 48                              |  |
|                           | 32                            | APR 17                  | MAY 01 | MAY 16 | SEP 22                  | OCT 06 | OCT 19 | 172                     | 157 | 141 | 42                              |  |
|                           | 28                            | APR 07                  | APR 18 | APR 29 | OCT 01                  | OCT 15 | OCT 29 | 197                     | 179 | 162 | 35                              |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| IOWA                      |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| CHEROKEE                  | 36<br>32<br>28                | MAY 06<br>APR 23<br>APR 13 | MAY 18<br>MAY 07<br>APR 28 | MAY 30<br>MAY 21<br>MAY 13 | SEP 07<br>SEP 14<br>SEP 24 | SEP 18<br>SEP 30<br>OCT 08 | SEP 30<br>OCT 16<br>OCT 22 | 137<br>161<br>179       | 122<br>145<br>162 | 107<br>130<br>146 | 51<br>45<br>39                    |  |
| CLARINDA                  | 36<br>32<br>28                | APR 24<br>APR 13<br>APR 02 | MAY 05<br>APR 26<br>APR 16 | MAY 17<br>MAY 10<br>APR 30 | SEP 12<br>SEP 24<br>OCT 09 | SEP 27<br>OCT 07<br>OCT 22 | OCT 13<br>OCT 19<br>NOV 04 | 159<br>181<br>209       | 144<br>163<br>188 | 129<br>144<br>167 | 45<br>39<br>32                    |  |
| CLARION                   | 36<br>32<br>28                | MAY 03<br>APR 21<br>APR 09 | MAY 15<br>MAY 05<br>APR 24 | MAY 27<br>MAY 18<br>MAY 10 | SEP 04<br>SEP 17<br>SEP 25 | SEP 20<br>OCT 01<br>OCT 09 | OCT 07<br>OCT 15<br>OCT 23 | 148<br>166<br>188       | 128<br>149<br>167 | 107<br>132<br>146 | 50<br>44<br>37                    |  |
| CLINTON NO 1              | 36<br>32<br>28                | APR 24<br>APR 16<br>APR 03 | MAY 08<br>APR 28<br>APR 15 | MAY 22<br>MAY 10<br>APR 27 | SEP 19<br>SEP 25<br>OCT 06 | OCT 01<br>OCT 10<br>OCT 22 | OCT 12<br>OCT 26<br>NOV 07 | 162<br>182<br>212       | 145<br>165<br>189 | 128<br>147<br>167 | 44<br>38<br>30                    |  |
| COLUMBUS JUNCTION         | 36<br>32<br>28                | APR 24<br>APR 14<br>MAR 30 | MAY 09<br>APR 28<br>APR 12 | MAY 23<br>MAY 11<br>APR 24 | SEP 14<br>SEP 22<br>OCT 06 | SEP 29<br>OCT 08<br>OCT 21 | OCT 14<br>OCT 23<br>NOV 04 | 160<br>179<br>211       | 142<br>162<br>191 | 125<br>146<br>171 | 44<br>38<br>30                    |  |
| CORNING                   | 36<br>32<br>28                | APR 25<br>APR 16<br>APR 06 | MAY 10<br>MAY 09<br>APR 18 | MAY 25<br>MAY 09<br>MAY 01 | SEP 14<br>SEP 22<br>SEP 30 | SEP 28<br>OCT 08<br>OCT 16 | OCT 13<br>OCT 23<br>OCT 31 | 161<br>183<br>200       | 140<br>162<br>180 | 120<br>141<br>159 | 47<br>41<br>34                    |  |
| CORYDON                   | 36<br>32<br>28                | APR 19<br>APR 09<br>MAR 29 | MAY 03<br>APR 22<br>APR 10 | MAY 17<br>MAY 05<br>APR 21 | SEP 23<br>SEP 30<br>OCT 12 | OCT 05<br>OCT 15<br>OCT 25 | OCT 17<br>OCT 30<br>NOV 07 | 170<br>196<br>215       | 155<br>176<br>198 | 139<br>155<br>181 | 44<br>38<br>30                    |  |
| CRESCO                    | 36<br>32<br>28                | MAY 02<br>APR 22<br>APR 08 | MAY 14<br>MAY 06<br>MAY 05 | MAY 26<br>MAY 19<br>MAY 05 | SEP 10<br>SEP 20<br>SEP 28 | SEP 24<br>OCT 05<br>OCT 12 | OCT 08<br>OCT 20<br>OCT 27 | 154<br>169<br>191       | 133<br>152<br>173 | 112<br>134<br>154 | 50<br>45<br>37                    |  |
| DAVENPORT L AND D NO 1    | 36<br>32<br>28                | APR 14<br>APR 03<br>MAR 24 | APR 27<br>APR 14<br>APR 04 | MAY 10<br>MAY 25<br>APR 16 | SEP 29<br>OCT 13<br>OCT 22 | OCT 14<br>OCT 27<br>NOV 04 | OCT 29<br>NOV 10<br>NOV 16 | 189<br>213<br>231       | 170<br>196<br>213 | 151<br>178<br>195 | 42<br>35<br>27                    |  |
| DECORAH 2 N               | 36<br>32<br>28                | MAY 05<br>APR 23<br>APR 12 | MAY 18<br>MAY 10<br>MAY 26 | MAY 30<br>MAY 26<br>MAY 11 | SEP 07<br>SEP 18<br>SEP 22 | SEP 19<br>SEP 30<br>OCT 09 | SEP 30<br>OCT 13<br>OCT 26 | 143<br>164<br>187       | 123<br>143<br>165 | 103<br>122<br>143 | 50<br>44<br>37                    |  |
| DENISON                   | 36<br>32<br>28                | APR 25<br>APR 15<br>APR 05 | MAY 11<br>MAY 01<br>APR 20 | MAY 26<br>MAY 17<br>MAY 05 | SEP 14<br>SEP 22<br>OCT 03 | SEP 29<br>OCT 06<br>OCT 18 | OCT 14<br>OCT 21<br>NOV 01 | 160<br>177<br>203       | 140<br>158<br>180 | 120<br>138<br>158 | 47<br>41<br>34                    |  |
| DUBUQUE L AND D NO 11     | 36<br>32<br>28                | APR 16<br>APR 06<br>MAR 26 | APR 30<br>APR 20<br>APR 07 | MAY 15<br>MAY 04<br>APR 19 | SEP 24<br>OCT 05<br>OCT 17 | OCT 09<br>OCT 22<br>NOV 01 | OCT 23<br>NOV 09<br>NOV 16 | 182<br>209<br>225       | 161<br>185<br>207 | 139<br>160<br>188 | 43<br>37<br>30                    |  |
| EMMETSBURG                | 36<br>32<br>28                | APR 26<br>APR 17<br>APR 06 | MAY 10<br>MAY 30<br>APR 18 | MAY 25<br>MAY 14<br>MAY 01 | SEP 14<br>SEP 24<br>OCT 05 | SEP 27<br>OCT 07<br>OCT 19 | OCT 09<br>OCT 20<br>NOV 02 | 158<br>177<br>199       | 139<br>159<br>183 | 119<br>142<br>167 | 49<br>43<br>36                    |  |
| ESTHERVILLE 2 N           | 36<br>32<br>28                | MAY 01<br>APR 21<br>APR 09 | MAY 14<br>MAY 04<br>APR 24 | MAY 28<br>MAY 16<br>MAY 09 | SEP 11<br>SEP 20<br>SEP 27 | SEP 23<br>OCT 03<br>OCT 11 | OCT 05<br>OCT 16<br>OCT 25 | 147<br>169<br>192       | 131<br>152<br>170 | 114<br>135<br>147 | 51<br>45<br>38                    |  |
| FAIRFIELD                 | 36<br>32<br>28                | APR 23<br>APR 09<br>MAR 28 | MAY 07<br>MAY 05<br>APR 11 | MAY 21<br>MAY 05<br>APR 24 | SEP 19<br>SEP 29<br>OCT 12 | OCT 03<br>OCT 13<br>OCT 27 | OCT 16<br>OCT 28<br>NOV 12 | 165<br>193<br>219       | 148<br>173<br>199 | 130<br>154<br>180 | 43<br>37<br>29                    |  |
| FAYETTE                   | 36<br>32<br>28                | MAY 08<br>APR 27<br>APR 13 | MAY 20<br>MAY 11<br>APR 29 | JUN 01<br>MAY 26<br>MAY 14 | SEP 06<br>SEP 14<br>SEP 21 | SEP 18<br>SEP 27<br>OCT 06 | SEP 29<br>OCT 09<br>OCT 20 | 137<br>156<br>175       | 120<br>138<br>159 | 103<br>119<br>143 | 51<br>45<br>38                    |  |
| FOREST CITY               | 36<br>32<br>28                | APR 26<br>APR 21<br>APR 05 | MAY 11<br>MAY 04<br>APR 20 | MAY 25<br>MAY 17<br>MAY 05 | SEP 11<br>SEP 24<br>OCT 01 | SEP 24<br>OCT 06<br>OCT 15 | OCT 08<br>OCT 17<br>OCT 29 | 157<br>170<br>196       | 136<br>154<br>177 | 115<br>139<br>158 | 49<br>44<br>37                    |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP. THRESHOLD<br>(DEGREES F.) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                    |                   | FREEZE/FROST<br>PROBABILITY (*) |  |
|---------------------------|---------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|--------------------|-------------------|---------------------------------|--|
|                           |                                 | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                    |                   |                                 |  |
|                           |                                 | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                 | 90                |                                 |  |
| <b>IOWA</b>               |                                 |                            |                            |                            |                            |                            |                            |                         |                    |                   |                                 |  |
| FORT DODGE                | 36<br>32<br>28                  | APR 28<br>APR 17<br>APR 10 | MAY 12<br>MAY 02<br>APR 21 | MAY 26<br>MAY 16<br>MAY 02 | SEP 10<br>SEP 22<br>SEP 29 | SEP 25<br>OCT 06<br>OCT 15 | OCT 11<br>OCT 20<br>OCT 31 | 154<br>176<br>194       | 135<br>157<br>176  | 117<br>137<br>158 | 48<br>42<br>35                  |  |
| GLENWOOD 2 NNW            | 36<br>32<br>28                  | APR 26<br>APR 12<br>MAR 30 | MAY 06<br>APR 27<br>APR 15 | MAY 16<br>MAY 12<br>APR 30 | SEP 16<br>SEP 24<br>OCT 05 | SEP 30<br>OCT 08<br>OCT 20 | OCT 15<br>OCT 23<br>NOV 04 | 164<br>187<br>212       | 146<br>164<br>188  | 129<br>140<br>163 | 44<br>38<br>31                  |  |
| GREENFIELD                | 36<br>32<br>28                  | APR 26<br>APR 14<br>APR 02 | MAY 08<br>APR 29<br>APR 16 | MAY 19<br>MAY 13<br>APR 30 | SEP 17<br>SEP 26<br>OCT 04 | OCT 01<br>OCT 10<br>OCT 19 | OCT 14<br>OCT 24<br>NOV 04 | 161<br>181<br>210       | 145<br>163<br>186  | 129<br>146<br>161 | 45<br>40<br>32                  |  |
| GRINNELL 3 SW             | 36<br>32<br>28                  | MAY 01<br>APR 19<br>APR 09 | MAY 16<br>MAY 06<br>APR 24 | MAY 30<br>MAY 23<br>MAY 09 | SEP 07<br>SEP 18<br>SEP 25 | SEP 24<br>OCT 04<br>OCT 12 | OCT 11<br>OCT 19<br>OCT 28 | 156<br>173<br>193       | 130<br>150<br>170  | 105<br>127<br>146 | 49<br>43<br>36                  |  |
| GRUNDY CENTER             | 36<br>32<br>28                  | MAY 01<br>APR 23<br>APR 07 | MAY 12<br>MAY 06<br>APR 23 | MAY 23<br>MAY 20<br>MAY 09 | SEP 11<br>SEP 23<br>SEP 30 | SEP 22<br>OCT 06<br>OCT 15 | OCT 03<br>OCT 19<br>OCT 30 | 148<br>166<br>195       | 132<br>152<br>174  | 116<br>138<br>154 | 49<br>44<br>37                  |  |
| GUTTENBERG L AND D 10     | 36<br>32<br>28                  | APR 21<br>APR 13<br>APR 01 | MAY 06<br>APR 25<br>APR 12 | MAY 22<br>MAY 08<br>APR 23 | SEP 23<br>SEP 28<br>OCT 11 | OCT 05<br>OCT 13<br>OCT 26 | OCT 17<br>OCT 29<br>NOV 10 | 169<br>191<br>216       | 151<br>170<br>197  | 132<br>149<br>177 | 46<br>40<br>32                  |  |
| HAMPTON 3 NNE             | 36<br>32<br>28                  | APR 30<br>APR 21<br>APR 05 | MAY 13<br>MAY 04<br>APR 23 | MAY 27<br>MAY 16<br>MAY 10 | SEP 07<br>SEP 17<br>SEP 25 | SEP 21<br>OCT 01<br>OCT 12 | OCT 04<br>OCT 15<br>OCT 28 | 150<br>170<br>193       | 129<br>150<br>171  | 109<br>129<br>150 | 49<br>43<br>36                  |  |
| HARLAN                    | 36<br>32<br>28                  | APR 28<br>APR 14<br>APR 09 | MAY 10<br>MAY 01<br>APR 21 | MAY 23<br>MAY 18<br>MAY 03 | SEP 11<br>SEP 25<br>OCT 04 | SEP 26<br>OCT 06<br>OCT 17 | OCT 11<br>OCT 18<br>OCT 30 | 156<br>175<br>197       | 138<br>158<br>178  | 120<br>141<br>159 | 47<br>41<br>34                  |  |
| HAWARDEN                  | 36<br>32<br>28                  | MAY 01<br>APR 24<br>APR 11 | MAY 16<br>MAY 05<br>APR 27 | MAY 30<br>MAY 17<br>MAY 13 | SEP 09<br>SEP 16<br>SEP 27 | SEP 22<br>SEP 30<br>OCT 11 | OCT 06<br>OCT 14<br>OCT 25 | 146<br>164<br>185       | 129<br>147<br>167  | 111<br>129<br>148 | 49<br>44<br>37                  |  |
| HUMBOLDT NO 2             | 36<br>32<br>28                  | APR 27<br>APR 16<br>APR 07 | MAY 13<br>MAY 02<br>APR 22 | MAY 28<br>MAY 18<br>MAY 07 | SEP 09<br>SEP 21<br>SEP 29 | SEP 23<br>OCT 06<br>OCT 12 | OCT 08<br>OCT 20<br>OCT 26 | 152<br>174<br>192       | 133<br>156<br>172  | 113<br>137<br>153 | 49<br>43<br>36                  |  |
| IDA GROVE                 | 36<br>32<br>28                  | MAY 01<br>APR 22<br>APR 14 | MAY 15<br>MAY 05<br>APR 29 | MAY 29<br>MAY 18<br>MAY 14 | SEP 08<br>SEP 16<br>SEP 26 | SEP 21<br>OCT 01<br>OCT 11 | OCT 03<br>OCT 17<br>OCT 25 | 149<br>167<br>182       | 128<br>149<br>164  | 107<br>130<br>146 | 49<br>44<br>37                  |  |
| INDEPENDENCE 2 SW         | 36<br>32<br>28                  | APR 28<br>APR 20<br>APR 05 | MAY 11<br>MAY 05<br>APR 22 | MAY 25<br>MAY 20<br>MAY 09 | SEP 08<br>SEP 13<br>SEP 25 | SEP 23<br>SEP 30<br>OCT 12 | OCT 07<br>OCT 17<br>OCT 29 | 151<br>168<br>198       | 134<br>147<br>172  | 117<br>126<br>146 | 50<br>44<br>37                  |  |
| INDIANOLA 2 SSW           | 36<br>32<br>28                  | APR 24<br>APR 16<br>MAR 31 | MAY 10<br>MAY 09<br>APR 14 | MAY 26<br>MAY 09<br>APR 28 | SEP 09<br>SEP 21<br>OCT 01 | SEP 26<br>OCT 06<br>OCT 17 | OCT 13<br>OCT 21<br>NOV 01 | 161<br>181<br>204       | 138<br>161<br>.185 | 115<br>140<br>165 | 45<br>39<br>31                  |  |
| IOWA CITY                 | 36<br>32<br>28                  | APR 23<br>APR 07<br>MAR 31 | MAY 08<br>APR 22<br>APR 13 | MAY 24<br>MAY 07<br>APR 27 | SEP 17<br>SEP 26<br>OCT 09 | OCT 02<br>OCT 11<br>OCT 25 | OCT 16<br>OCT 26<br>NOV 10 | 163<br>194<br>218       | 146<br>171<br>194  | 128<br>149<br>171 | 45<br>38<br>31                  |  |
| IOWA FALLS 1 E            | 36<br>32<br>28                  | MAY 02<br>APR 18<br>APR 08 | MAY 15<br>MAY 05<br>APR 23 | MAY 27<br>MAY 21<br>MAY 08 | SEP 10<br>SEP 17<br>SEP 28 | SEP 23<br>OCT 02<br>OCT 12 | OCT 06<br>OCT 17<br>OCT 26 | 149<br>171<br>193       | 130<br>149<br>172  | 111<br>127<br>151 | 49<br>43<br>36                  |  |
| JEFFERSON                 | 36<br>32<br>28                  | APR 24<br>APR 16<br>APR 03 | MAY 08<br>MAY 13<br>APR 17 | MAY 22<br>MAY 13<br>MAY 01 | SEP 13<br>SEP 23<br>OCT 06 | SEP 28<br>OCT 06<br>OCT 19 | OCT 12<br>OCT 20<br>NOV 01 | 160<br>175<br>201       | 142<br>159<br>184  | 123<br>143<br>167 | 47<br>41<br>34                  |  |
| KEOKUK LOCK AND DAM 19    | 36<br>32<br>28                  | APR 11<br>MAR 31<br>MAR 23 | APR 25<br>APR 11<br>APR 06 | MAY 09<br>APR 22<br>APR 20 | OCT 01<br>OCT 15<br>OCT 20 | OCT 15<br>OCT 28<br>NOV 03 | OCT 30<br>NOV 10<br>NOV 16 | 194<br>214<br>227       | 173<br>199<br>210  | 152<br>164<br>193 | 38<br>31<br>24                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (*) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                 |  |
| IOWA                      |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| KEOSAUQUA                 | 36<br>32<br>28                | APR 22<br>APR 13<br>MAR 28 | MAY 07<br>APR 26<br>APR 11 | MAY 21<br>MAY 09<br>APR 25 | SEP 17<br>SEP 24<br>OCT 09 | OCT 01<br>OCT 10<br>OCT 23 | OCT 14<br>OCT 27<br>NOV 06 | 161<br>186<br>216       | 146<br>167<br>194 | 131<br>147<br>173 | 43<br>36<br>28                  |  |
| KNOXVILLE                 | 36<br>32<br>28                | APR 20<br>APR 09<br>MAR 28 | MAY 04<br>APR 24<br>APR 11 | MAY 18<br>MAY 09<br>APR 25 | SEP 21<br>SEP 28<br>OCT 10 | OCT 06<br>OCT 12<br>OCT 24 | OCT 20<br>OCT 26<br>NOV 08 | 169<br>189<br>215       | 154<br>170<br>196 | 139<br>151<br>177 | 44<br>37<br>30                  |  |
| LAKE PARK                 | 36<br>32<br>28                | MAY 01<br>APR 21<br>APR 09 | MAY 12<br>MAY 04<br>APR 25 | MAY 23<br>MAY 17<br>MAY 10 | SEP 11<br>SEP 23<br>SEP 30 | SEP 25<br>OCT 06<br>OCT 13 | OCT 10<br>OCT 18<br>OCT 27 | 152<br>170<br>189       | 135<br>154<br>171 | 119<br>138<br>154 | 51<br>45<br>38                  |  |
| LE CLAIRE L AND D 14      | 36<br>32<br>28                | APR 16<br>APR 03<br>MAR 26 | APR 29<br>APR 15<br>APR 08 | MAY 12<br>APR 28<br>APR 20 | SEP 29<br>OCT 09<br>OCT 18 | OCT 13<br>OCT 23<br>NOV 03 | OCT 28<br>NOV 06<br>NOV 19 | 184<br>203<br>227       | 167<br>190<br>209 | 149<br>176<br>191 | 42<br>35<br>27                  |  |
| LE MARS 2 N               | 36<br>32<br>28                | APR 29<br>APR 20<br>APR 11 | MAY 15<br>MAY 04<br>APR 28 | MAY 31<br>MAY 18<br>MAY 14 | SEP 09<br>SEP 17<br>SEP 25 | SEP 20<br>OCT 01<br>OCT 10 | OCT 01<br>OCT 16<br>OCT 25 | 148<br>165<br>187       | 127<br>149<br>165 | 106<br>134<br>143 | 49<br>44<br>37                  |  |
| LOGAN                     | 36<br>32<br>28                | APR 24<br>APR 14<br>APR 03 | MAY 08<br>APR 28<br>APR 17 | MAY 22<br>MAY 11<br>MAY 01 | SEP 15<br>SEP 25<br>OCT 04 | SEP 28<br>OCT 07<br>OCT 17 | OCT 12<br>OCT 20<br>OCT 30 | 159<br>181<br>200       | 143<br>162<br>182 | 126<br>143<br>165 | 46<br>40<br>33                  |  |
| MAPLETON 4 NNW            | 36<br>32<br>28                | APR 26<br>APR 17<br>APR 09 | MAY 12<br>MAY 02<br>APR 22 | MAY 27<br>MAY 17<br>MAY 05 | SEP 12<br>SEP 19<br>SEP 28 | SEP 25<br>OCT 03<br>OCT 10 | OCT 08<br>OCT 16<br>OCT 22 | 155<br>168<br>192       | 136<br>153<br>170 | 117<br>138<br>148 | 48<br>42<br>35                  |  |
| MAQUOKETA                 | 36<br>32<br>28                | MAY 01<br>APR 16<br>APR 05 | MAY 13<br>MAY 02<br>APR 20 | MAY 25<br>MAY 18<br>MAY 05 | SEP 13<br>SEP 22<br>OCT 04 | SEP 25<br>OCT 06<br>OCT 17 | OCT 07<br>OCT 19<br>OCT 30 | 150<br>169<br>199       | 134<br>156<br>180 | 118<br>143<br>160 | 47<br>41<br>33                  |  |
| MARSHALLTOWN              | 36<br>32<br>28                | APR 26<br>APR 16<br>APR 01 | MAY 10<br>MAY 14<br>APR 14 | MAY 24<br>MAY 14<br>APR 27 | SEP 09<br>SEP 19<br>OCT 01 | SEP 24<br>OCT 04<br>OCT 14 | OCT 10<br>OCT 18<br>OCT 27 | 155<br>174<br>202       | 137<br>156<br>182 | 118<br>138<br>163 | 48<br>42<br>35                  |  |
| MASON CITY 3 N            | 36<br>32<br>28                | MAY 01<br>APR 21<br>APR 10 | MAY 16<br>MAY 05<br>APR 26 | MAY 30<br>MAY 20<br>MAY 12 | SEP 09<br>SEP 16<br>SEP 29 | SEP 21<br>OCT 02<br>OCT 12 | OCT 03<br>OCT 19<br>OCT 26 | 145<br>170<br>192       | 127<br>149<br>169 | 110<br>128<br>145 | 50<br>44<br>37                  |  |
| MILFORD 4 NW              | 36<br>32<br>28                | MAY 04<br>APR 20<br>APR 09 | MAY 16<br>MAY 04<br>APR 26 | MAY 29<br>MAY 18<br>MAY 12 | SEP 09<br>SEP 17<br>SEP 30 | SEP 21<br>SEP 30<br>OCT 12 | OCT 04<br>OCT 12<br>OCT 24 | 147<br>167<br>186       | 127<br>148<br>169 | 107<br>129<br>151 | 51<br>45<br>39                  |  |
| MOUNT PLEASANT            | 36<br>32<br>28                | APR 23<br>APR 15<br>MAR 30 | MAY 10<br>MAY 07<br>APR 12 | MAY 26<br>MAY 07<br>APR 24 | SEP 16<br>SEP 26<br>OCT 11 | OCT 01<br>OCT 10<br>OCT 25 | OCT 16<br>OCT 24<br>NOV 09 | 161<br>186<br>216       | 144<br>166<br>196 | 126<br>147<br>175 | 44<br>37<br>30                  |  |
| MUSCATINE 4 ENE           | 36<br>32<br>28                | APR 20<br>APR 09<br>MAR 30 | MAY 05<br>APR 22<br>APR 10 | MAY 21<br>MAY 05<br>APR 21 | SEP 20<br>SEP 27<br>OCT 14 | OCT 03<br>OCT 13<br>OCT 28 | OCT 16<br>OCT 29<br>NOV 10 | 167<br>196<br>217       | 150<br>173<br>200 | 133<br>150<br>183 | 43<br>36<br>28                  |  |
| NEW HAMPTON               | 36<br>32<br>28                | MAY 02<br>APR 20<br>APR 05 | MAY 13<br>MAY 04<br>APR 21 | MAY 24<br>MAY 18<br>MAY 08 | SEP 13<br>SEP 24<br>SEP 30 | SEP 25<br>OCT 06<br>OCT 15 | OCT 07<br>OCT 18<br>OCT 31 | 150<br>170<br>200       | 134<br>154<br>176 | 117<br>138<br>153 | 49<br>43<br>37                  |  |
| NEWTON 1 E                | 36<br>32<br>28                | APR 22<br>APR 12<br>MAR 31 | MAY 07<br>MAY 26<br>APR 12 | MAY 22<br>MAY 11<br>APR 24 | SEP 15<br>SEP 29<br>OCT 06 | SEP 30<br>OCT 12<br>OCT 22 | OCT 15<br>OCT 25<br>NOV 07 | 169<br>185<br>212       | 146<br>168<br>192 | 122<br>150<br>173 | 45<br>39<br>32                  |  |
| NORTHWOOD                 | 36<br>32<br>28                | APR 28<br>APR 20<br>APR 08 | MAY 12<br>MAY 04<br>APR 23 | MAY 25<br>MAY 17<br>MAY 07 | SEP 11<br>SEP 21<br>OCT 01 | SEP 24<br>OCT 06<br>OCT 15 | OCT 07<br>OCT 21<br>OCT 29 | 154<br>172<br>195       | 135<br>155<br>175 | 115<br>138<br>155 | 49<br>44<br>37                  |  |
| OAKLAND 2 E               | 36<br>32<br>28                | APR 23<br>APR 26<br>APR 11 | MAY 16<br>MAY 07<br>APR 25 | JUN 08<br>MAY 17<br>MAY 10 | SEP 08<br>SEP 15<br>SEP 26 | SEP 20<br>SEP 29<br>OCT 09 | OCT 02<br>OCT 13<br>OCT 22 | 151<br>159<br>186       | 126<br>145<br>166 | 102<br>130<br>147 | 47<br>41<br>35                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE / FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                     |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                     |  |
| IOWA                      |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                     |  |
| OELWEIN 2 SE              | 36<br>32<br>28                | MAY 06<br>APR 23<br>APR 11 | MAY 17<br>MAY 08<br>APR 25 | MAY 29<br>MAY 22<br>MAY 09 | SEP 08<br>SEP 16<br>SEP 21 | SEP 23<br>SEP 30<br>OCT 09 | OCT 08<br>OCT 14<br>OCT 26 | 148<br>164<br>189       | 128<br>145<br>166 | 109<br>125<br>143 | 49<br>43<br>36                      |  |
| ONAWA                     | 36<br>32<br>28                | APR 29<br>APR 13<br>APR 06 | MAY 09<br>APR 29<br>APR 20 | MAY 20<br>MAY 14<br>MAY 04 | SEP 13<br>SEP 23<br>SEP 30 | SEP 26<br>OCT 07<br>OCT 15 | OCT 09<br>OCT 20<br>OCT 30 | 155<br>178<br>201       | 139<br>160<br>177 | 124<br>142<br>154 | 46<br>41<br>34                      |  |
| OSAGE                     | 36<br>32<br>28                | APR 27<br>APR 20<br>MAR 31 | MAY 11<br>MAY 04<br>APR 16 | MAY 25<br>MAY 19<br>MAY 03 | SEP 13<br>SEP 25<br>OCT 03 | SEP 24<br>OCT 08<br>OCT 17 | OCT 06<br>OCT 21<br>NOV 01 | 155<br>175<br>206       | 135<br>156<br>184 | 116<br>137<br>161 | 49<br>43<br>36                      |  |
| OSCEOLA                   | 36<br>32<br>28                | APR 21<br>APR 10<br>MAR 31 | MAY 05<br>APR 23<br>APR 13 | MAY 19<br>MAY 07<br>APR 27 | SEP 18<br>SEP 28<br>OCT 06 | OCT 03<br>OCT 12<br>OCT 22 | OCT 18<br>OCT 27<br>NOV 08 | 168<br>190<br>211       | 151<br>171<br>191 | 134<br>152<br>172 | 44<br>38<br>31                      |  |
| OSKALOOSA                 | 36<br>32<br>28                | APR 25<br>APR 11<br>MAR 30 | MAY 08<br>APR 25<br>APR 13 | MAY 22<br>MAY 09<br>APR 28 | SEP 15<br>SEP 26<br>OCT 07 | SEP 30<br>OCT 09<br>OCT 21 | OCT 14<br>OCT 21<br>NOV 04 | 160<br>186<br>210       | 144<br>166<br>190 | 127<br>146<br>169 | 44<br>38<br>30                      |  |
| OTTUMWA FAA AIRPORT       | 36<br>32<br>28                | APR 18<br>APR 06<br>MAR 29 | MAY 01<br>APR 19<br>APR 10 | MAY 14<br>MAY 03<br>APR 22 | SEP 25<br>OCT 05<br>OCT 14 | OCT 10<br>OCT 17<br>OCT 29 | OCT 25<br>OCT 30<br>NOV 13 | 179<br>200<br>221       | 161<br>180<br>202 | 143<br>161<br>182 | 42<br>36<br>29                      |  |
| PERRY                     | 36<br>32<br>28                | APR 25<br>APR 16<br>APR 01 | MAY 09<br>APR 29<br>APR 15 | MAY 23<br>MAY 12<br>APR 29 | SEP 11<br>SEP 20<br>SEP 30 | SEP 25<br>OCT 04<br>OCT 15 | OCT 09<br>OCT 19<br>OCT 31 | 155<br>174<br>206       | 138<br>157<br>183 | 121<br>140<br>160 | 48<br>42<br>34                      |  |
| POCAHONTAS                | 36<br>32<br>28                | APR 27<br>APR 18<br>APR 09 | MAY 11<br>MAY 01<br>APR 25 | MAY 25<br>MAY 15<br>MAY 10 | SEP 10<br>SEP 22<br>SEP 30 | SEP 24<br>OCT 04<br>OCT 14 | OCT 07<br>OCT 15<br>OCT 28 | 155<br>172<br>193       | 135<br>154<br>172 | 116<br>136<br>151 | 49<br>43<br>36                      |  |
| PRIMGHAR                  | 36<br>32<br>28                | APR 30<br>APR 17<br>APR 08 | MAY 12<br>MAY 03<br>APR 23 | MAY 23<br>MAY 18<br>MAY 08 | SEP 13<br>SEP 24<br>SEP 29 | SEP 24<br>OCT 07<br>OCT 12 | OCT 05<br>OCT 19<br>OCT 24 | 152<br>175<br>192       | 135<br>156<br>171 | 118<br>137<br>150 | 48<br>43<br>37                      |  |
| RED OAK                   | 36<br>32<br>28                | APR 26<br>APR 16<br>APR 06 | MAY 09<br>APR 30<br>APR 19 | MAY 21<br>MAY 13<br>MAY 02 | SEP 12<br>SEP 20<br>OCT 03 | SEP 26<br>OCT 04<br>OCT 17 | OCT 10<br>OCT 17<br>OCT 31 | 156<br>175<br>201       | 139<br>156<br>181 | 123<br>138<br>161 | 45<br>39<br>32                      |  |
| ROCK RAPIDS               | 36<br>32<br>28                | APR 29<br>APR 20<br>APR 10 | MAY 13<br>MAY 05<br>APR 25 | MAY 27<br>MAY 20<br>MAY 10 | SEP 09<br>SEP 17<br>SEP 30 | SEP 23<br>OCT 01<br>OCT 14 | OCT 06<br>OCT 15<br>OCT 27 | 150<br>165<br>191       | 132<br>148<br>171 | 113<br>131<br>151 | 51<br>45<br>39                      |  |
| ROCKWELL CITY             | 36<br>32<br>28                | APR 25<br>APR 16<br>APR 03 | MAY 10<br>MAY 14<br>APR 17 | MAY 25<br>MAY 14<br>APR 30 | SEP 14<br>SEP 26<br>OCT 06 | SEP 27<br>OCT 08<br>OCT 18 | OCT 11<br>OCT 20<br>OCT 31 | 157<br>177<br>201       | 139<br>160<br>184 | 122<br>144<br>167 | 48<br>42<br>35                      |  |
| SAC CITY                  | 36<br>32<br>28                | APR 29<br>APR 15<br>APR 03 | MAY 10<br>MAY 01<br>APR 18 | MAY 22<br>MAY 16<br>MAY 02 | SEP 15<br>SEP 22<br>OCT 04 | SEP 28<br>OCT 08<br>OCT 19 | OCT 12<br>OCT 24<br>NOV 04 | 157<br>180<br>207       | 140<br>160<br>184 | 123<br>139<br>161 | 47<br>42<br>34                      |  |
| SANBORN                   | 36<br>32<br>28                | MAY 04<br>APR 22<br>APR 14 | MAY 14<br>MAY 06<br>APR 28 | MAY 24<br>MAY 20<br>MAY 12 | SEP 09<br>SEP 20<br>SEP 29 | SEP 20<br>OCT 04<br>OCT 11 | OCT 01<br>OCT 18<br>OCT 24 | 147<br>169<br>184       | 128<br>150<br>166 | 110<br>131<br>148 | 50<br>45<br>39                      |  |
| SHELDON                   | 36<br>32<br>28                | MAY 05<br>APR 23<br>APR 09 | MAY 16<br>MAY 06<br>APR 25 | MAY 27<br>MAY 20<br>MAY 11 | SEP 09<br>SEP 17<br>SEP 26 | SEP 22<br>OCT 01<br>OCT 11 | OCT 05<br>OCT 15<br>OCT 26 | 145<br>164<br>189       | 128<br>147<br>168 | 111<br>131<br>147 | 50<br>45<br>38                      |  |
| SHENANDOAH                | 36<br>32<br>28                | APR 21<br>APR 13<br>MAR 30 | MAY 05<br>APR 27<br>APR 13 | MAY 19<br>MAY 11<br>APR 28 | SEP 17<br>SEP 25<br>OCT 07 | SEP 30<br>OCT 10<br>OCT 21 | OCT 13<br>OCT 24<br>NOV 04 | 163<br>185<br>211       | 147<br>165<br>190 | 131<br>145<br>168 | 43<br>37<br>30                      |  |
| SIBLEY                    | 36<br>32<br>28                | MAY 06<br>APR 28<br>APR 14 | MAY 18<br>MAY 12<br>APR 29 | MAY 31<br>MAY 25<br>MAY 14 | SEP 05<br>SEP 10<br>SEP 21 | SEP 16<br>SEP 26<br>OCT 06 | SEP 27<br>OCT 12<br>OCT 21 | 137<br>155<br>174       | 120<br>136<br>159 | 103<br>117<br>144 | 51<br>46<br>39                      |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| IOWA                      |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| SIDNEY                    | 36                            | APR 18                  | MAY 01 | MAY 15 | SEP 21                  | OCT 04 | OCT 18 | 172                     | 155 | 139 | 42                                |  |
|                           | 32                            | APR 06                  | APR 20 | MAY 04 | OCT 03                  | OCT 15 | OCT 27 | 197                     | 177 | 157 | 36                                |  |
|                           | 28                            | MAR 29                  | APR 11 | APR 23 | OCT 15                  | OCT 29 | NOV 12 | 220                     | 201 | 181 | 28                                |  |
| SIGOURNEY                 | 36                            | APR 23                  | MAY 05 | MAY 18 | SEP 22                  | OCT 06 | OCT 19 | 169                     | 153 | 137 | 44                                |  |
|                           | 32                            | APR 11                  | APR 23 | MAY 04 | SEP 29                  | OCT 15 | OCT 30 | 194                     | 174 | 155 | 37                                |  |
|                           | 28                            | APR 02                  | APR 12 | APR 22 | OCT 09                  | OCT 25 | NOV 10 | 214                     | 195 | 176 | 30                                |  |
| SIOUX RAPIDS              | 36                            | APR 30                  | MAY 15 | MAY 30 | SEP 07                  | SEP 21 | OCT 05 | 151                     | 128 | 106 | 50                                |  |
|                           | 32                            | APR 18                  | MAY 03 | MAY 18 | SEP 18                  | OCT 02 | OCT 16 | 167                     | 152 | 137 | 44                                |  |
|                           | 28                            | APR 12                  | APR 26 | MAY 10 | SEP 28                  | OCT 11 | OCT 24 | 186                     | 167 | 149 | 38                                |  |
| SPENCER 1 N               | 36                            | MAY 02                  | MAY 16 | MAY 29 | SEP 05                  | SEP 18 | SEP 30 | 142                     | 124 | 106 | 52                                |  |
|                           | 32                            | APR 22                  | MAY 06 | MAY 20 | SEP 15                  | SEP 29 | OCT 13 | 165                     | 146 | 127 | 47                                |  |
|                           | 28                            | APR 15                  | APR 28 | MAY 11 | SEP 26                  | OCT 10 | OCT 23 | 181                     | 164 | 147 | 39                                |  |
| STORM LAKE 2 E            | 36                            | APR 28                  | MAY 13 | MAY 28 | SEP 08                  | SEP 24 | OCT 09 | 156                     | 133 | 110 | 51                                |  |
|                           | 32                            | APR 21                  | MAY 05 | MAY 18 | SEP 23                  | OCT 07 | OCT 21 | 171                     | 154 | 138 | 46                                |  |
|                           | 28                            | APR 09                  | APR 25 | MAY 10 | OCT 01                  | OCT 14 | OCT 26 | 191                     | 171 | 152 | 39                                |  |
| TIPTON                    | 36                            | MAY 01                  | MAY 13 | MAY 24 | SEP 15                  | SEP 28 | OCT 12 | 153                     | 138 | 123 | 47                                |  |
|                           | 32                            | APR 16                  | MAY 01 | MAY 15 | SEP 23                  | OCT 07 | OCT 21 | 178                     | 158 | 139 | 41                                |  |
|                           | 28                            | APR 01                  | APR 13 | APR 25 | OCT 05                  | OCT 19 | NOV 02 | 206                     | 188 | 170 | 33                                |  |
| TOLEDO                    | 36                            | APR 28                  | MAY 13 | MAY 28 | SEP 09                  | SEP 23 | OCT 06 | 151                     | 132 | 112 | 49                                |  |
|                           | 32                            | APR 18                  | MAY 03 | MAY 18 | SEP 22                  | OCT 05 | OCT 19 | 173                     | 154 | 136 | 43                                |  |
|                           | 28                            | APR 05                  | APR 20 | MAY 05 | SEP 28                  | OCT 14 | OCT 31 | 197                     | 176 | 156 | 36                                |  |
| TRIPOLI                   | 36                            | MAY 01                  | MAY 12 | MAY 24 | SEP 14                  | SEP 25 | OCT 06 | 151                     | 135 | 119 | 48                                |  |
|                           | 32                            | APR 21                  | MAY 03 | MAY 16 | SEP 23                  | OCT 07 | OCT 21 | 173                     | 156 | 139 | 42                                |  |
|                           | 28                            | APR 05                  | APR 18 | MAY 01 | OCT 02                  | OCT 16 | OCT 30 | 201                     | 181 | 160 | 35                                |  |
| VINTON                    | 36                            | APR 30                  | MAY 13 | MAY 25 | SEP 10                  | SEP 25 | OCT 09 | 151                     | 134 | 117 | 47                                |  |
|                           | 32                            | APR 17                  | APR 30 | MAY 14 | SEP 20                  | OCT 05 | OCT 19 | 174                     | 157 | 139 | 41                                |  |
|                           | 28                            | APR 02                  | APR 14 | APR 25 | OCT 01                  | OCT 16 | OCT 31 | 204                     | 185 | 166 | 33                                |  |
| WASHINGTON                | 36                            | APR 19                  | MAY 04 | MAY 18 | SEP 20                  | OCT 03 | OCT 17 | 169                     | 152 | 135 | 43                                |  |
|                           | 32                            | APR 10                  | APR 22 | MAY 04 | SEP 29                  | OCT 14 | OCT 30 | 195                     | 174 | 154 | 36                                |  |
|                           | 28                            | MAR 28                  | APR 10 | APR 24 | OCT 11                  | OCT 25 | NOV 08 | 217                     | 197 | 178 | 29                                |  |
| WAUKON                    | 36                            | APR 29                  | MAY 11 | MAY 23 | SEP 18                  | SEP 29 | OCT 10 | 158                     | 140 | 122 | 48                                |  |
|                           | 32                            | APR 19                  | MAY 03 | MAY 18 | SEP 25                  | OCT 08 | OCT 22 | 180                     | 157 | 135 | 43                                |  |
|                           | 28                            | APR 04                  | APR 19 | MAY 04 | OCT 05                  | OCT 20 | NOV 04 | 204                     | 183 | 162 | 36                                |  |
| WEBSTER CITY              | 36                            | MAY 01                  | MAY 15 | MAY 29 | SEP 08                  | SEP 24 | OCT 10 | 151                     | 131 | 111 | 49                                |  |
|                           | 32                            | APR 20                  | MAY 04 | MAY 18 | SEP 19                  | OCT 03 | OCT 17 | 166                     | 151 | 137 | 43                                |  |
|                           | 28                            | APR 10                  | APR 22 | MAY 05 | SEP 30                  | OCT 14 | OCT 28 | 193                     | 174 | 155 | 35                                |  |
| WILLIAMSBURG              | 36                            | APR 29                  | MAY 13 | MAY 26 | SEP 12                  | SEP 27 | OCT 12 | 155                     | 137 | 118 | 46                                |  |
|                           | 32                            | APR 17                  | MAY 01 | MAY 16 | SEP 21                  | OCT 05 | OCT 19 | 171                     | 156 | 141 | 40                                |  |
|                           | 28                            | APR 03                  | APR 15 | APR 27 | OCT 02                  | OCT 17 | NOV 01 | 206                     | 184 | 163 | 33                                |  |
| WINTERSET 3 NW            | 36                            | APR 27                  | MAY 12 | MAY 27 | SEP 08                  | SEP 23 | OCT 08 | 152                     | 133 | 115 | 47                                |  |
|                           | 32                            | APR 21                  | MAY 04 | MAY 17 | SEP 18                  | OCT 03 | OCT 18 | 168                     | 151 | 134 | 41                                |  |
|                           | 28                            | APR 11                  | APR 22 | MAY 02 | SEP 27                  | OCT 11 | OCT 26 | 191                     | 172 | 153 | 34                                |  |
| KANSAS                    |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| ABILENE 2 S               | 36                            | APR 17                  | MAY 02 | MAY 17 | SEP 21                  | OCT 07 | OCT 23 | 181                     | 158 | 134 | 42                                |  |
|                           | 32                            | APR 05                  | APR 19 | MAY 04 | OCT 07                  | OCT 18 | OCT 30 | 200                     | 181 | 162 | 36                                |  |
|                           | 28                            | MAR 30                  | APR 12 | APR 24 | OCT 13                  | OCT 26 | NOV 09 | 218                     | 197 | 176 | 29                                |  |
| ALTON 6 E                 | 36                            | APR 24                  | MAY 07 | MAY 20 | SEP 12                  | SEP 29 | OCT 16 | 165                     | 144 | 124 | 45                                |  |
|                           | 32                            | APR 12                  | APR 28 | MAY 15 | SEP 24                  | OCT 08 | OCT 22 | 184                     | 162 | 141 | 39                                |  |
|                           | 28                            | APR 01                  | APR 17 | MAY 04 | OCT 11                  | OCT 21 | OCT 31 | 201                     | 186 | 170 | 32                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| KANSAS                    |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ANTHONY                   | 36<br>32<br>28                | APR 08<br>MAR 29<br>MAR 18 | APR 21<br>APR 13<br>MAR 31 | MAY 03<br>APR 27<br>APR 14 | OCT 07<br>OCT 11<br>OCT 26 | OCT 17<br>OCT 25<br>NOV 07 | OCT 28<br>NOV 08<br>NOV 19 | 195<br>217<br>238       | 179<br>195<br>220 | 163<br>173<br>202 | 36<br>29<br>21                    |  |
| ASHLAND                   | 36<br>32<br>28                | APR 19<br>APR 07<br>MAR 26 | MAY 02<br>APR 23<br>APR 12 | MAY 14<br>MAY 09<br>APR 30 | SEP 23<br>OCT 02<br>OCT 12 | OCT 08<br>OCT 14<br>OCT 26 | OCT 22<br>OCT 27<br>NOV 08 | 179<br>197<br>215       | 158<br>174<br>195 | 137<br>151<br>176 | 44<br>38<br>31                    |  |
| ATCHISON                  | 36<br>32<br>28                | APR 07<br>APR 03<br>MAR 21 | APR 23<br>APR 16<br>APR 04 | MAY 09<br>APR 29<br>APR 17 | SEP 26<br>OCT 06<br>OCT 19 | OCT 10<br>OCT 21<br>NOV 02 | OCT 23<br>NOV 06<br>NOV 15 | 191<br>210<br>231       | 168<br>188<br>211 | 146<br>166<br>191 | 38<br>32<br>25                    |  |
| BELLEVILLE                | 36<br>32<br>28                | APR 17<br>APR 08<br>MAR 28 | MAY 03<br>APR 23<br>APR 11 | MAY 18<br>MAY 07<br>APR 25 | SEP 19<br>OCT 05<br>OCT 14 | OCT 05<br>OCT 17<br>OCT 26 | OCT 21<br>OCT 30<br>NOV 07 | 180<br>198<br>213       | 154<br>177<br>197 | 129<br>156<br>182 | 43<br>37<br>29                    |  |
| BISON                     | 36<br>32<br>28                | APR 21<br>APR 10<br>MAR 29 | MAY 04<br>APR 26<br>APR 14 | MAY 18<br>MAY 11<br>MAY 01 | SEP 17<br>OCT 04<br>OCT 08 | OCT 05<br>OCT 16<br>OCT 23 | OCT 22<br>OCT 27<br>NOV 06 | 177<br>192<br>211       | 152<br>172<br>190 | 128<br>153<br>170 | 43<br>37<br>29                    |  |
| CENTRALIA                 | 36<br>32<br>28                | APR 24<br>APR 11<br>MAR 27 | MAY 06<br>APR 25<br>APR 11 | MAY 19<br>MAY 09<br>APR 26 | SEP 20<br>OCT 04<br>OCT 13 | OCT 03<br>OCT 15<br>OCT 26 | OCT 16<br>OCT 26<br>NOV 07 | 166<br>191<br>218       | 149<br>173<br>197 | 132<br>154<br>175 | 42<br>35<br>28                    |  |
| CHANUTE FAA AIRPORT       | 36<br>32<br>28                | APR 09<br>APR 01<br>MAR 18 | APR 21<br>APR 13<br>MAR 31 | MAY 04<br>APR 26<br>APR 14 | OCT 02<br>OCT 11<br>OCT 22 | OCT 14<br>OCT 24<br>NOV 04 | OCT 25<br>NOV 05<br>NOV 18 | 191<br>208<br>237       | 174<br>193<br>217 | 158<br>177<br>197 | 36<br>29<br>22                    |  |
| CIMARRON                  | 36<br>32<br>28                | APR 21<br>APR 12<br>APR 02 | MAY 04<br>APR 27<br>APR 17 | MAY 17<br>MAY 12<br>MAY 02 | SEP 14<br>SEP 23<br>OCT 08 | OCT 01<br>OCT 11<br>OCT 22 | OCT 18<br>OCT 29<br>NOV 05 | 171<br>192<br>205       | 149<br>166<br>187 | 127<br>140<br>169 | 45<br>39<br>32                    |  |
| CLAY CENTER               | 36<br>32<br>28                | APR 23<br>APR 09<br>MAR 29 | MAY 06<br>APR 22<br>APR 10 | MAY 18<br>MAY 05<br>APR 22 | SEP 22<br>OCT 06<br>OCT 14 | OCT 05<br>OCT 16<br>OCT 26 | OCT 18<br>OCT 26<br>NOV 06 | 170<br>194<br>212       | 152<br>176<br>197 | 134<br>158<br>183 | 41<br>35<br>27                    |  |
| COLBY 1 SW                | 36<br>32<br>28                | APR 30<br>APR 21<br>APR 08 | MAY 14<br>MAY 03<br>APR 23 | MAY 28<br>MAY 15<br>MAY 08 | SEP 12<br>SEP 19<br>OCT 06 | SEP 27<br>OCT 06<br>OCT 20 | OCT 12<br>OCT 22<br>NOV 02 | 158<br>176<br>199       | 135<br>155<br>179 | 112<br>133<br>159 | 50<br>44<br>36                    |  |
| COLDWATER                 | 36<br>32<br>28                | APR 12<br>APR 03<br>MAR 24 | APR 26<br>APR 18<br>APR 06 | MAY 10<br>MAY 03<br>APR 19 | SEP 27<br>OCT 09<br>OCT 17 | OCT 12<br>OCT 22<br>NOV 01 | OCT 28<br>NOV 03<br>NOV 15 | 190<br>202<br>228       | 169<br>186<br>208 | 147<br>169<br>187 | 38<br>32<br>24                    |  |
| COLUMBUS 6 NNW            | 36<br>32<br>28                | APR 11<br>APR 03<br>MAR 21 | APR 24<br>APR 17<br>APR 03 | MAY 08<br>APR 30<br>APR 17 | SEP 30<br>OCT 07<br>OCT 20 | OCT 12<br>OCT 20<br>NOV 04 | OCT 24<br>NOV 02<br>NOV 20 | 189<br>204<br>234       | 170<br>186<br>214 | 150<br>168<br>195 | 33<br>27<br>20                    |  |
| COTTONWOOD FALLS          | 36<br>32<br>28                | APR 18<br>APR 05<br>MAR 26 | MAY 03<br>APR 19<br>APR 09 | MAY 17<br>MAY 03<br>APR 22 | SEP 23<br>OCT 06<br>OCT 13 | OCT 06<br>OCT 16<br>OCT 26 | OCT 19<br>OCT 26<br>NOV 09 | 177<br>196<br>220       | 156<br>179<br>200 | 135<br>162<br>180 | 39<br>32<br>25                    |  |
| COUNCIL GROVE DAM         | 36<br>32<br>28                | APR 17<br>APR 08<br>MAR 28 | MAY 02<br>APR 21<br>APR 09 | MAY 17<br>MAY 03<br>APR 21 | SEP 23<br>OCT 04<br>OCT 15 | OCT 06<br>OCT 16<br>OCT 28 | OCT 19<br>OCT 29<br>NOV 10 | 176<br>194<br>220       | 156<br>178<br>202 | 137<br>162<br>184 | 41<br>35<br>29                    |  |
| DODGE CITY WSO            | 36<br>32<br>28                | APR 14<br>APR 04<br>MAR 27 | APR 27<br>APR 21<br>APR 09 | MAY 11<br>MAY 07<br>APR 21 | SEP 29<br>OCT 11<br>OCT 18 | OCT 12<br>OCT 23<br>NOV 01 | OCT 25<br>NOV 03<br>NOV 14 | 188<br>202<br>224       | 167<br>184<br>205 | 146<br>167<br>186 | 41<br>35<br>27                    |  |
| EL DORADO                 | 36<br>32<br>28                | APR 17<br>APR 06<br>MAR 25 | MAY 02<br>APR 29<br>APR 07 | MAY 17<br>MAY 08<br>APR 19 | SEP 29<br>OCT 05<br>OCT 15 | OCT 11<br>OCT 18<br>OCT 30 | OCT 22<br>OCT 30<br>NOV 14 | 180<br>199<br>224       | 161<br>183<br>205 | 142<br>166<br>186 | 37<br>31<br>24                    |  |
| ELKHART                   | 36<br>32<br>28                | APR 22<br>APR 07<br>MAR 26 | MAY 02<br>APR 23<br>APR 07 | MAY 12<br>MAY 08<br>APR 18 | SEP 24<br>OCT 07<br>OCT 15 | OCT 08<br>OCT 21<br>OCT 31 | OCT 22<br>NOV 03<br>NOV 16 | 178<br>200<br>226       | 158<br>180<br>207 | 139<br>161<br>187 | 42<br>35<br>26                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (%)<br>* |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|--------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                      |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                      |  |
| KANSAS                    |                               |                         |        |        |                         |        |        |                         |     |     |                                      |  |
| ELLSWORTH                 | 36                            | APR 18                  | MAY 03 | MAY 19 | SEP 16                  | OCT 03 | OCT 20 | 178                     | 152 | 126 | 42                                   |  |
|                           | 32                            | APR 10                  | APR 23 | MAY 07 | OCT 01                  | OCT 14 | OCT 27 | 192                     | 173 | 154 | 36                                   |  |
|                           | 28                            | MAR 29                  | APR 14 | MAY 01 | OCT 12                  | OCT 24 | NOV 06 | 214                     | 192 | 171 | 29                                   |  |
| EMPORIA FAA AIRPORT       | 36                            | APR 11                  | APR 26 | MAY 10 | OCT 01                  | OCT 13 | OCT 25 | 191                     | 169 | 147 | 39                                   |  |
|                           | 32                            | APR 01                  | APR 14 | APR 27 | OCT 09                  | OCT 21 | NOV 02 | 206                     | 190 | 173 | 33                                   |  |
|                           | 28                            | MAR 25                  | APR 06 | APR 18 | OCT 17                  | OCT 30 | NOV 13 | 225                     | 207 | 189 | 25                                   |  |
| ESKRIDGE                  | 36                            | APR 10                  | APR 25 | MAY 09 | OCT 03                  | OCT 15 | OCT 26 | 193                     | 172 | 152 | 39                                   |  |
|                           | 32                            | APR 03                  | APR 17 | APR 30 | OCT 12                  | OCT 25 | NOV 07 | 206                     | 191 | 175 | 32                                   |  |
|                           | 28                            | MAR 24                  | APR 07 | APR 21 | OCT 18                  | OCT 31 | NOV 13 | 226                     | 206 | 187 | 25                                   |  |
| EUREKA                    | 36                            | APR 14                  | APR 30 | MAY 15 | SEP 26                  | OCT 08 | OCT 21 | 182                     | 161 | 140 | 38                                   |  |
|                           | 32                            | APR 08                  | APR 20 | MAY 01 | OCT 05                  | OCT 18 | OCT 31 | 198                     | 181 | 164 | 31                                   |  |
|                           | 28                            | MAR 25                  | APR 07 | APR 20 | OCT 15                  | OCT 28 | NOV 09 | 219                     | 203 | 187 | 24                                   |  |
| FALL RIVER DAM            | 36                            | APR 08                  | APR 22 | MAY 06 | OCT 02                  | OCT 15 | OCT 28 | 197                     | 176 | 154 | 37                                   |  |
|                           | 32                            | MAR 30                  | APR 13 | APR 28 | OCT 12                  | OCT 24 | NOV 05 | 212                     | 193 | 174 | 31                                   |  |
|                           | 28                            | MAR 21                  | APR 03 | APR 16 | OCT 23                  | NOV 04 | NOV 16 | 231                     | 214 | 197 | 24                                   |  |
| FLORENCE                  | 36                            | APR 20                  | MAY 04 | MAY 18 | SEP 24                  | OCT 06 | OCT 18 | 173                     | 154 | 136 | 39                                   |  |
|                           | 32                            | APR 10                  | APR 26 | MAY 13 | OCT 01                  | OCT 13 | OCT 26 | 191                     | 169 | 148 | 33                                   |  |
|                           | 28                            | MAR 27                  | APR 11 | APR 25 | OCT 11                  | OCT 25 | NOV 08 | 217                     | 197 | 176 | 26                                   |  |
| FORT SCOTT                | 36                            | APR 10                  | APR 23 | MAY 05 | SEP 30                  | OCT 15 | OCT 30 | 195                     | 175 | 154 | 34                                   |  |
|                           | 32                            | MAR 31                  | APR 14 | APR 28 | OCT 13                  | OCT 25 | NOV 06 | 211                     | 193 | 175 | 27                                   |  |
|                           | 28                            | MAR 17                  | APR 01 | APR 17 | OCT 22                  | NOV 04 | NOV 16 | 238                     | 216 | 194 | 20                                   |  |
| FREDONIA 1 E              | 36                            | APR 14                  | APR 29 | MAY 13 | SEP 28                  | OCT 10 | OCT 22 | 182                     | 164 | 146 | 36                                   |  |
|                           | 32                            | APR 04                  | APR 17 | MAY 01 | OCT 06                  | OCT 19 | NOV 02 | 200                     | 185 | 169 | 29                                   |  |
|                           | 28                            | MAR 20                  | APR 05 | APR 21 | OCT 16                  | OCT 31 | NOV 15 | 233                     | 208 | 183 | 22                                   |  |
| GARDEN CITY FAA AP        | 36                            | APR 21                  | MAY 03 | MAY 14 | SEP 19                  | OCT 06 | OCT 22 | 175                     | 155 | 135 | 44                                   |  |
|                           | 32                            | APR 08                  | APR 24 | MAY 10 | OCT 01                  | OCT 16 | OCT 30 | 196                     | 174 | 152 | 39                                   |  |
|                           | 28                            | MAR 27                  | APR 11 | APR 27 | OCT 15                  | OCT 26 | NOV 07 | 217                     | 197 | 177 | 31                                   |  |
| GARNETT                   | 36                            | APR 12                  | APR 25 | MAY 07 | OCT 01                  | OCT 12 | OCT 23 | 187                     | 170 | 153 | 36                                   |  |
|                           | 32                            | APR 04                  | APR 17 | APR 30 | OCT 09                  | OCT 22 | NOV 03 | 204                     | 187 | 170 | 30                                   |  |
|                           | 28                            | MAR 21                  | APR 04 | APR 18 | OCT 19                  | NOV 02 | NOV 15 | 231                     | 211 | 191 | 22                                   |  |
| GOODLAND WSO              | 36                            | MAY 01                  | MAY 14 | MAY 27 | SEP 13                  | SEP 26 | OCT 09 | 154                     | 135 | 115 | 51                                   |  |
|                           | 32                            | APR 21                  | MAY 04 | MAY 16 | SEP 23                  | OCT 07 | OCT 21 | 176                     | 156 | 135 | 44                                   |  |
|                           | 28                            | APR 10                  | APR 23 | MAY 06 | OCT 06                  | OCT 18 | OCT 30 | 196                     | 178 | 159 | 37                                   |  |
| GREAT BEND                | 36                            | APR 13                  | APR 27 | MAY 11 | OCT 02                  | OCT 15 | OCT 29 | 193                     | 170 | 148 | 39                                   |  |
|                           | 32                            | APR 01                  | APR 17 | MAY 04 | OCT 11                  | OCT 24 | NOV 06 | 211                     | 189 | 167 | 32                                   |  |
|                           | 28                            | MAR 21                  | APR 06 | APR 22 | OCT 19                  | NOV 02 | NOV 16 | 231                     | 210 | 188 | 25                                   |  |
| GREENSBURG                | 36                            | APR 14                  | APR 28 | MAY 12 | SEP 27                  | OCT 10 | OCT 24 | 186                     | 165 | 143 | 41                                   |  |
|                           | 32                            | APR 04                  | APR 20 | MAY 05 | OCT 06                  | OCT 18 | OCT 30 | 202                     | 181 | 159 | 35                                   |  |
|                           | 28                            | MAR 25                  | APR 09 | APR 25 | OCT 17                  | OCT 30 | NOV 11 | 222                     | 203 | 183 | 27                                   |  |
| HAYS 1 S                  | 36                            | APR 23                  | MAY 05 | MAY 17 | SEP 17                  | OCT 03 | OCT 20 | 173                     | 150 | 128 | 46                                   |  |
|                           | 32                            | APR 13                  | APR 28 | MAY 13 | SEP 29                  | OCT 12 | OCT 26 | 188                     | 167 | 145 | 40                                   |  |
|                           | 28                            | APR 02                  | APR 17 | MAY 03 | OCT 12                  | OCT 23 | NOV 04 | 206                     | 188 | 170 | 34                                   |  |
| HEALY                     | 36                            | APR 28                  | MAY 11 | MAY 25 | SEP 15                  | OCT 01 | OCT 17 | 167                     | 142 | 117 | 47                                   |  |
|                           | 32                            | APR 16                  | APR 30 | MAY 14 | SEP 22                  | OCT 09 | OCT 25 | 184                     | 161 | 139 | 41                                   |  |
|                           | 28                            | APR 05                  | APR 21 | MAY 07 | OCT 10                  | OCT 22 | NOV 02 | 199                     | 183 | 166 | 33                                   |  |
| HERINGTON                 | 36                            | APR 17                  | APR 30 | MAY 13 | SEP 22                  | OCT 07 | OCT 22 | 182                     | 159 | 136 | 40                                   |  |
|                           | 32                            | APR 05                  | APR 20 | MAY 05 | OCT 05                  | OCT 20 | NOV 03 | 203                     | 182 | 161 | 33                                   |  |
|                           | 28                            | MAR 28                  | APR 10 | APR 23 | OCT 12                  | OCT 27 | NOV 11 | 221                     | 199 | 178 | 26                                   |  |
| HILL CITY FAA AIRPORT     | 36                            | APR 24                  | MAY 07 | MAY 20 | SEP 12                  | SEP 30 | OCT 17 | 166                     | 145 | 124 | 46                                   |  |
|                           | 32                            | APR 10                  | APR 25 | MAY 11 | SEP 25                  | OCT 10 | OCT 25 | 189                     | 167 | 145 | 40                                   |  |
|                           | 28                            | APR 01                  | APR 18 | MAY 06 | OCT 12                  | OCT 23 | NOV 03 | 205                     | 187 | 168 | 33                                   |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP. THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|--------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                                | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                                | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| KANSAS                    |                                |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| HOLTON 4 NE               | 36                             | APR 18                  | MAY 04 | MAY 19 | SEP 20                  | OCT 05 | OCT 19 | 172                     | 153 | 135 | 41                                |  |
|                           | 32                             | APR 12                  | APR 23 | MAY 04 | SEP 29                  | OCT 13 | OCT 28 | 192                     | 173 | 154 | 35                                |  |
|                           | 28                             | MAR 29                  | APR 11 | APR 25 | OCT 12                  | OCT 26 | NOV 08 | 217                     | 197 | 176 | 28                                |  |
| HORTON                    | 36                             | APR 18                  | MAY 03 | MAY 18 | SEP 23                  | OCT 05 | OCT 17 | 170                     | 154 | 138 | 42                                |  |
|                           | 32                             | APR 10                  | APR 23 | MAY 06 | OCT 01                  | OCT 13 | OCT 25 | 189                     | 172 | 155 | 36                                |  |
|                           | 28                             | MAR 27                  | APR 11 | APR 26 | OCT 13                  | OCT 25 | NOV 06 | 217                     | 196 | 175 | 29                                |  |
| HOWARD 5 NE               | 36                             | APR 18                  | MAY 02 | MAY 17 | SEP 26                  | OCT 09 | OCT 22 | 180                     | 159 | 138 | 37                                |  |
|                           | 32                             | APR 06                  | APR 19 | MAY 01 | OCT 04                  | OCT 17 | OCT 30 | 198                     | 181 | 164 | 31                                |  |
|                           | 28                             | MAR 22                  | APR 07 | APR 22 | OCT 11                  | OCT 26 | NOV 09 | 221                     | 201 | 181 | 24                                |  |
| HOXIE                     | 36                             | APR 25                  | MAY 08 | MAY 21 | SEP 13                  | SEP 28 | OCT 14 | 164                     | 143 | 121 | 47                                |  |
|                           | 32                             | APR 15                  | APR 29 | MAY 13 | SEP 23                  | OCT 10 | OCT 28 | 185                     | 163 | 141 | 40                                |  |
|                           | 28                             | APR 02                  | APR 18 | MAY 05 | OCT 08                  | OCT 21 | NOV 02 | 203                     | 184 | 165 | 33                                |  |
| HUDSON                    | 36                             | APR 10                  | APR 24 | MAY 08 | OCT 02                  | OCT 14 | OCT 27 | 193                     | 173 | 152 | 39                                |  |
|                           | 32                             | MAR 31                  | APR 16 | MAY 01 | OCT 12                  | OCT 24 | NOV 05 | 208                     | 190 | 173 | 32                                |  |
|                           | 28                             | MAR 24                  | APR 05 | APR 18 | OCT 19                  | NOV 02 | NOV 15 | 230                     | 210 | 190 | 24                                |  |
| HUGOTON                   | 36                             | APR 13                  | APR 28 | MAY 14 | SEP 26                  | OCT 10 | OCT 24 | 186                     | 164 | 141 | 43                                |  |
|                           | 32                             | APR 06                  | APR 21 | MAY 06 | OCT 05                  | OCT 21 | NOV 05 | 202                     | 182 | 162 | 37                                |  |
|                           | 28                             | MAR 25                  | APR 06 | APR 18 | OCT 14                  | OCT 29 | NOV 12 | 225                     | 206 | 186 | 29                                |  |
| INDEPENDENCE              | 36                             | APR 07                  | APR 22 | MAY 06 | OCT 02                  | OCT 15 | OCT 28 | 195                     | 175 | 155 | 35                                |  |
|                           | 32                             | MAR 28                  | APR 11 | APR 26 | OCT 13                  | OCT 25 | NOV 07 | 218                     | 196 | 174 | 28                                |  |
|                           | 28                             | MAR 11                  | MAR 28 | APR 15 | OCT 20                  | NOV 05 | NOV 21 | 249                     | 221 | 194 | 21                                |  |
| JETMORE                   | 36                             | APR 22                  | MAY 04 | MAY 17 | SEP 16                  | OCT 04 | OCT 22 | 178                     | 152 | 126 | 43                                |  |
|                           | 32                             | APR 08                  | APR 24 | MAY 09 | SEP 26                  | OCT 12 | OCT 28 | 196                     | 171 | 146 | 36                                |  |
|                           | 28                             | MAR 28                  | APR 13 | APR 29 | OCT 15                  | OCT 26 | NOV 06 | 215                     | 196 | 176 | 29                                |  |
| JOHN REDMOND DAM          | 36                             | APR 13                  | APR 27 | MAY 11 | SEP 29                  | OCT 11 | OCT 23 | 184                     | 166 | 147 | 39                                |  |
|                           | 32                             | APR 04                  | APR 17 | APR 30 | OCT 07                  | OCT 20 | NOV 02 | 202                     | 185 | 169 | 33                                |  |
|                           | 28                             | MAR 21                  | APR 05 | APR 19 | OCT 16                  | OCT 30 | NOV 12 | 229                     | 208 | 187 | 25                                |  |
| JOHNSON 11 ESE            | 36                             | APR 26                  | MAY 09 | MAY 21 | SEP 14                  | OCT 01 | OCT 18 | 169                     | 145 | 121 | 47                                |  |
|                           | 32                             | APR 14                  | APR 28 | MAY 13 | SEP 29                  | OCT 11 | OCT 24 | 188                     | 165 | 143 | 41                                |  |
|                           | 28                             | APR 07                  | APR 21 | MAY 05 | OCT 11                  | OCT 23 | NOV 04 | 203                     | 184 | 166 | 33                                |  |
| KANOPOLIS DAM             | 36                             | APR 15                  | APR 30 | MAY 14 | SEP 21                  | OCT 07 | OCT 23 | 183                     | 160 | 137 | 43                                |  |
|                           | 32                             | APR 05                  | APR 20 | MAY 05 | OCT 02                  | OCT 17 | NOV 01 | 201                     | 179 | 157 | 36                                |  |
|                           | 28                             | MAR 27                  | APR 11 | APR 25 | OCT 15                  | OCT 28 | NOV 10 | 222                     | 200 | 177 | 29                                |  |
| KINGMAN                   | 36                             | APR 14                  | APR 27 | MAY 11 | SEP 27                  | OCT 11 | OCT 24 | 187                     | 166 | 144 | 38                                |  |
|                           | 32                             | APR 02                  | APR 16 | APR 30 | OCT 07                  | OCT 19 | OCT 31 | 204                     | 185 | 167 | 32                                |  |
|                           | 28                             | MAR 23                  | APR 07 | APR 22 | OCT 19                  | NOV 02 | NOV 16 | 228                     | 208 | 188 | 24                                |  |
| KINSLEY                   | 36                             | APR 11                  | APR 27 | MAY 12 | SEP 26                  | OCT 11 | OCT 26 | 190                     | 167 | 144 | 42                                |  |
|                           | 32                             | APR 04                  | APR 20 | MAY 07 | OCT 07                  | OCT 19 | OCT 31 | 202                     | 181 | 160 | 36                                |  |
|                           | 28                             | MAR 25                  | APR 10 | APR 25 | OCT 18                  | OCT 31 | NOV 13 | 225                     | 204 | 182 | 28                                |  |
| LAKIN                     | 36                             | APR 23                  | MAY 06 | MAY 19 | SEP 18                  | OCT 04 | OCT 20 | 176                     | 151 | 125 | 46                                |  |
|                           | 32                             | APR 11                  | APR 25 | MAY 09 | SEP 28                  | OCT 14 | OCT 30 | 192                     | 171 | 149 | 40                                |  |
|                           | 28                             | MAR 28                  | APR 13 | APR 28 | OCT 11                  | OCT 25 | NOV 07 | 213                     | 194 | 175 | 32                                |  |
| LARNED                    | 36                             | APR 13                  | APR 28 | MAY 13 | SEP 27                  | OCT 12 | OCT 28 | 190                     | 167 | 144 | 39                                |  |
|                           | 32                             | APR 04                  | APR 19 | MAY 04 | OCT 12                  | OCT 22 | NOV 02 | 204                     | 186 | 168 | 33                                |  |
|                           | 28                             | MAR 24                  | APR 09 | APR 24 | OCT 18                  | NOV 01 | NOV 15 | 228                     | 205 | 183 | 25                                |  |
| LAWRENCE                  | 36                             | APR 10                  | APR 22 | MAY 03 | OCT 06                  | OCT 18 | OCT 30 | 195                     | 179 | 162 | 35                                |  |
|                           | 32                             | MAR 30                  | APR 12 | APR 24 | OCT 14                  | OCT 28 | NOV 10 | 218                     | 198 | 178 | 29                                |  |
|                           | 28                             | MAR 16                  | MAR 31 | APR 16 | OCT 22                  | NOV 05 | NOV 18 | 238                     | 217 | 196 | 22                                |  |
| LEAVENWORTH 3 S           | 36                             | APR 11                  | APR 28 | MAY 14 | SEP 26                  | OCT 08 | OCT 21 | 182                     | 163 | 144 | 39                                |  |
|                           | 32                             | APR 04                  | APR 17 | APR 30 | OCT 06                  | OCT 20 | NOV 03 | 204                     | 185 | 166 | 33                                |  |
|                           | 28                             | MAR 23                  | APR 07 | APR 22 | OCT 14                  | OCT 28 | NOV 11 | 225                     | 204 | 183 | 25                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| KANSAS                    |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| LEOTI                     | 36<br>32<br>28                | APR 28<br>APR 19<br>APR 05 | MAY 10<br>MAY 01<br>APR 20 | MAY 22<br>MAY 14<br>MAY 05 | SEP 13<br>SEP 25<br>OCT 10 | SEP 28<br>OCT 10<br>OCT 22 | OCT 13<br>OCT 25<br>NOV 03 | 157<br>183<br>202       | 140<br>161<br>184 | 123<br>140<br>167 | 48<br>42<br>35                    |  |
| LIBERAL                   | 36<br>32<br>28                | APR 12<br>MAR 31<br>MAR 20 | APR 26<br>APR 18<br>APR 06 | MAY 09<br>MAY 06<br>APR 23 | SEP 30<br>OCT 14<br>OCT 23 | OCT 16<br>OCT 26<br>NOV 04 | NOV 01<br>NOV 07<br>NOV 17 | 192<br>211<br>233       | 173<br>191<br>212 | 153<br>170<br>190 | 39<br>32<br>24                    |  |
| LINCOLN 1 ESE             | 36<br>32<br>28                | APR 23<br>APR 09<br>MAR 31 | MAY 06<br>MAY 08<br>APR 15 | MAY 19<br>MAY 08<br>APR 30 | SEP 17<br>OCT 05<br>OCT 10 | OCT 03<br>OCT 16<br>OCT 23 | OCT 19<br>OCT 27<br>NOV 05 | 174<br>196<br>209       | 149<br>175<br>190 | 124<br>153<br>171 | 42<br>36<br>29                    |  |
| MANHATTAN                 | 36<br>32<br>28                | APR 16<br>APR 08<br>MAR 27 | MAY 03<br>MAY 08<br>APR 09 | MAY 19<br>MAY 08<br>APR 22 | SEP 22<br>OCT 05<br>OCT 16 | OCT 06<br>OCT 16<br>OCT 28 | OCT 19<br>OCT 28<br>NOV 10 | 177<br>197<br>219       | 155<br>176<br>202 | 134<br>155<br>184 | 40<br>34<br>26                    |  |
| MARYSVILLE                | 36<br>32<br>28                | APR 23<br>APR 11<br>APR 02 | MAY 06<br>MAY 10<br>APR 15 | MAY 18<br>MAY 10<br>APR 27 | SEP 18<br>SEP 26<br>OCT 12 | OCT 02<br>OCT 09<br>OCT 23 | OCT 16<br>OCT 22<br>NOV 03 | 168<br>186<br>205       | 149<br>165<br>191 | 130<br>145<br>176 | 45<br>39<br>31                    |  |
| MCPHERSON 2 S             | 36<br>32<br>28                | APR 18<br>APR 05<br>MAR 26 | MAY 02<br>MAY 04<br>APR 08 | MAY 16<br>MAY 04<br>APR 21 | SEP 27<br>OCT 09<br>OCT 17 | OCT 10<br>OCT 21<br>OCT 31 | OCT 22<br>NOV 01<br>NOV 14 | 182<br>201<br>226       | 161<br>183<br>205 | 139<br>166<br>184 | 39<br>33<br>24                    |  |
| MEADE                     | 36<br>32<br>28                | APR 15<br>APR 06<br>MAR 26 | APR 29<br>APR 22<br>APR 10 | MAY 13<br>MAY 08<br>APR 25 | SEP 27<br>OCT 04<br>OCT 14 | OCT 10<br>OCT 18<br>OCT 29 | OCT 23<br>NOV 01<br>NOV 13 | 186<br>199<br>224       | 164<br>179<br>201 | 141<br>158<br>178 | 41<br>35<br>27                    |  |
| MEDICINE LODGE            | 36<br>32<br>28                | APR 11<br>APR 03<br>MAR 22 | APR 25<br>APR 18<br>APR 06 | MAY 09<br>MAY 03<br>APR 21 | SEP 27<br>OCT 08<br>OCT 13 | OCT 10<br>OCT 20<br>OCT 29 | OCT 24<br>NOV 01<br>NOV 13 | 188<br>203<br>228       | 168<br>184<br>205 | 148<br>166<br>182 | 38<br>32<br>25                    |  |
| MINNEAPOLIS 2             | 36<br>32<br>28                | APR 15<br>APR 06<br>MAR 26 | APR 30<br>APR 20<br>APR 10 | MAY 16<br>MAY 04<br>APR 24 | SEP 22<br>OCT 10<br>OCT 15 | OCT 07<br>OCT 20<br>OCT 29 | OCT 22<br>OCT 31<br>NOV 12 | 184<br>198<br>222       | 159<br>183<br>202 | 134<br>167<br>182 | 40<br>34<br>25                    |  |
| MOUND CITY                | 36<br>32<br>28                | APR 18<br>APR 06<br>MAR 26 | MAY 02<br>MAY 04<br>APR 11 | MAY 17<br>MAY 04<br>APR 27 | SEP 22<br>OCT 01<br>OCT 12 | OCT 06<br>OCT 15<br>OCT 26 | OCT 20<br>OCT 29<br>NOV 09 | 176<br>197<br>217       | 156<br>177<br>198 | 136<br>157<br>178 | 37<br>31<br>23                    |  |
| MOUND VALLEY 3 WSW        | 36<br>32<br>28                | APR 14<br>APR 04<br>MAR 23 | APR 29<br>APR 17<br>APR 06 | MAY 13<br>APR 30<br>APR 21 | SEP 29<br>OCT 06<br>OCT 18 | OCT 11<br>OCT 18<br>OCT 31 | OCT 24<br>OCT 31<br>NOV 14 | 183<br>199<br>228       | 165<br>184<br>207 | 147<br>168<br>187 | 35<br>29<br>21                    |  |
| NESS CITY                 | 36<br>32<br>28                | APR 20<br>APR 09<br>MAR 27 | MAY 03<br>MAY 10<br>APR 13 | MAY 16<br>MAY 10<br>APR 30 | SEP 18<br>OCT 01<br>OCT 14 | OCT 05<br>OCT 16<br>OCT 26 | OCT 21<br>NOV 01<br>NOV 07 | 176<br>193<br>214       | 154<br>174<br>195 | 132<br>154<br>176 | 43<br>37<br>29                    |  |
| NEWTON 2 SW               | 36<br>32<br>28                | APR 15<br>APR 05<br>MAR 25 | APR 28<br>APR 18<br>APR 06 | MAY 11<br>MAY 01<br>APR 19 | SEP 29<br>OCT 10<br>OCT 15 | OCT 13<br>OCT 21<br>OCT 29 | OCT 26<br>NOV 01<br>NOV 13 | 186<br>202<br>225       | 167<br>185<br>205 | 148<br>168<br>186 | 38<br>31<br>24                    |  |
| NORTON 8 SSE              | 36<br>32<br>28                | APR 25<br>APR 14<br>APR 02 | MAY 07<br>MAY 14<br>MAY 03 | MAY 19<br>MAY 14<br>MAY 02 | SEP 18<br>SEP 27<br>OCT 13 | OCT 03<br>OCT 12<br>OCT 25 | OCT 19<br>OCT 28<br>NOV 05 | 169<br>187<br>205       | 148<br>166<br>189 | 127<br>144<br>173 | 45<br>39<br>31                    |  |
| OAKLEY                    | 36<br>32<br>28                | APR 25<br>APR 12<br>APR 02 | MAY 09<br>MAY 10<br>MAY 02 | MAY 22<br>MAY 10<br>MAY 02 | SEP 13<br>OCT 02<br>OCT 13 | SEP 29<br>OCT 15<br>OCT 24 | OCT 15<br>OCT 28<br>NOV 05 | 165<br>190<br>207       | 143<br>171<br>190 | 121<br>152<br>172 | 46<br>39<br>31                    |  |
| OBERLIN                   | 36<br>32<br>28                | APR 30<br>APR 20<br>APR 07 | MAY 13<br>MAY 04<br>MAY 09 | MAY 27<br>MAY 17<br>MAY 09 | SEP 12<br>SEP 20<br>OCT 04 | SEP 27<br>OCT 05<br>OCT 16 | OCT 11<br>OCT 21<br>OCT 29 | 157<br>173<br>199       | 135<br>154<br>176 | 114<br>135<br>153 | 48<br>42<br>35                    |  |
| OLATHE 3 E                | 36<br>32<br>28                | APR 13<br>APR 04<br>MAR 23 | APR 26<br>APR 17<br>APR 05 | MAY 08<br>MAY 29<br>APR 19 | SEP 30<br>OCT 14<br>OCT 18 | OCT 12<br>OCT 26<br>NOV 02 | OCT 24<br>NOV 06<br>NOV 16 | 186<br>208<br>231       | 169<br>192<br>210 | 151<br>175<br>189 | 37<br>31<br>23                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                 |  |
| KANSAS                    |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| OTTAWA                    | 36<br>32<br>28                | APR 13<br>APR 01<br>MAR 21 | APR 29<br>APR 16<br>APR 06 | MAY 15<br>APR 30<br>APR 21 | SEP 28<br>OCT 07<br>OCT 18 | OCT 10<br>OCT 20<br>NOV 01 | OCT 22<br>NOV 01<br>NOV 14 | 184<br>203<br>231       | 163<br>186<br>208 | 143<br>170<br>186 | 37<br>30<br>23                  |  |
| PARSONS                   | 36<br>32<br>28                | APR 07<br>MAR 26<br>MAR 14 | APR 20<br>APR 09<br>MAR 29 | MAY 03<br>APR 22<br>APR 13 | OCT 07<br>OCT 15<br>OCT 21 | OCT 20<br>OCT 29<br>NOV 06 | NOV 03<br>NOV 11<br>NOV 23 | 201<br>224<br>244       | 182<br>202<br>221 | 163<br>180<br>199 | 32<br>25<br>18                  |  |
| PHILLIPSBURG 1 SSE        | 36<br>32<br>28                | APR 23<br>APR 11<br>MAR 31 | MAY 06<br>APR 28<br>APR 17 | MAY 19<br>MAY 14<br>MAY 04 | SEP 18<br>SEP 23<br>OCT 07 | OCT 03<br>OCT 08<br>OCT 23 | OCT 19<br>OCT 23<br>NOV 08 | 170<br>184<br>212       | 149<br>163<br>189 | 128<br>141<br>165 | 45<br>39<br>31                  |  |
| PLAINVILLE                | 36<br>32<br>28                | APR 18<br>APR 08<br>MAR 30 | MAY 02<br>APR 24<br>APR 13 | MAY 16<br>MAY 11<br>APR 28 | SEP 20<br>OCT 04<br>OCT 13 | OCT 06<br>OCT 17<br>OCT 26 | OCT 22<br>OCT 30<br>NOV 08 | 182<br>194<br>215       | 157<br>175<br>195 | 132<br>156<br>175 | 43<br>36<br>29                  |  |
| PRATT 2 E                 | 36<br>32<br>28                | APR 10<br>MAR 30<br>MAR 25 | APR 25<br>APR 17<br>APR 07 | MAY 10<br>MAY 04<br>APR 21 | SEP 23<br>OCT 08<br>OCT 18 | OCT 09<br>OCT 20<br>NOV 01 | OCT 25<br>OCT 31<br>NOV 15 | 192<br>205<br>228       | 166<br>185<br>207 | 140<br>166<br>186 | 39<br>33<br>25                  |  |
| QUINTER                   | 36<br>32<br>28                | APR 25<br>APR 18<br>APR 04 | MAY 09<br>APR 29<br>APR 18 | MAY 23<br>MAY 10<br>MAY 03 | SEP 14<br>SEP 27<br>OCT 11 | SEP 29<br>OCT 13<br>OCT 24 | OCT 14<br>OCT 28<br>NOV 05 | 161<br>187<br>205       | 142<br>165<br>188 | 123<br>144<br>170 | 48<br>42<br>35                  |  |
| RUSSELL FAA AP            | 36<br>32<br>28                | APR 16<br>APR 07<br>MAR 26 | APR 30<br>APR 22<br>APR 12 | MAY 15<br>MAY 08<br>APR 29 | SEP 23<br>OCT 06<br>OCT 16 | OCT 07<br>OCT 17<br>OCT 27 | OCT 22<br>OCT 29<br>NOV 08 | 182<br>197<br>218       | 159<br>177<br>197 | 137<br>157<br>177 | 43<br>37<br>30                  |  |
| SAIN T FRANCIS            | 36<br>32<br>28                | APR 30<br>APR 19<br>APR 06 | MAY 11<br>APR 30<br>APR 18 | MAY 22<br>MAY 12<br>MAY 01 | SEP 14<br>SEP 22<br>OCT 07 | SEP 29<br>OCT 08<br>OCT 20 | OCT 13<br>OCT 24<br>NOV 02 | 159<br>181<br>202       | 140<br>160<br>184 | 121<br>139<br>166 | 49<br>42<br>33                  |  |
| SALINA FAA AIRPORT        | 36<br>32<br>28                | APR 16<br>APR 03<br>MAR 25 | APR 30<br>APR 18<br>APR 09 | MAY 13<br>MAY 04<br>APR 25 | SEP 28<br>OCT 09<br>OCT 17 | OCT 10<br>OCT 21<br>OCT 30 | OCT 22<br>NOV 02<br>NOV 13 | 184<br>205<br>224       | 163<br>185<br>203 | 141<br>166<br>182 | 40<br>34<br>26                  |  |
| SCOTT CITY                | 36<br>32<br>28                | APR 21<br>APR 12<br>MAR 30 | MAY 06<br>MAY 09<br>APR 16 | MAY 21<br>MAY 03<br>MAY 03 | SEP 15<br>SEP 28<br>OCT 10 | OCT 02<br>OCT 12<br>OCT 23 | OCT 19<br>OCT 26<br>NOV 05 | 172<br>189<br>207       | 149<br>169<br>189 | 125<br>149<br>171 | 46<br>40<br>32                  |  |
| SEDAN                     | 36<br>32<br>28                | APR 18<br>APR 03<br>MAR 25 | MAY 02<br>APR 18<br>APR 08 | MAY 16<br>MAY 03<br>APR 22 | SEP 28<br>OCT 02<br>OCT 13 | OCT 09<br>OCT 18<br>OCT 26 | OCT 21<br>NOV 03<br>NOV 09 | 178<br>201<br>220       | 160<br>182<br>201 | 141<br>163<br>181 | 39<br>32<br>26                  |  |
| SHARON SPRINGS            | 36<br>32<br>28                | APR 26<br>APR 18<br>APR 08 | MAY 10<br>APR 30<br>APR 21 | MAY 25<br>MAY 12<br>MAY 04 | SEP 17<br>SEP 25<br>OCT 09 | SEP 29<br>OCT 10<br>OCT 21 | OCT 11<br>OCT 24<br>NOV 02 | 161<br>183<br>201       | 141<br>162<br>182 | 121<br>140<br>163 | 48<br>42<br>34                  |  |
| SMITH CENTER              | 36<br>32<br>28                | APR 22<br>APR 07<br>APR 01 | MAY 06<br>APR 24<br>APR 12 | MAY 20<br>MAY 12<br>APR 24 | SEP 17<br>SEP 30<br>OCT 11 | OCT 02<br>OCT 12<br>OCT 24 | OCT 17<br>OCT 25<br>NOV 06 | 168<br>194<br>212       | 148<br>170<br>194 | 128<br>147<br>176 | 44<br>39<br>31                  |  |
| SUBLETTE                  | 36<br>32<br>28                | APR 20<br>APR 09<br>MAR 24 | MAY 02<br>APR 24<br>APR 11 | MAY 14<br>MAY 08<br>APR 29 | SEP 24<br>OCT 07<br>OCT 15 | OCT 08<br>OCT 19<br>OCT 28 | OCT 22<br>OCT 31<br>NOV 10 | 180<br>194<br>223       | 159<br>177<br>199 | 137<br>160<br>175 | 43<br>37<br>28                  |  |
| SYRACUSE 2 W              | 36<br>32<br>28                | APR 30<br>APR 20<br>APR 07 | MAY 13<br>MAY 02<br>APR 20 | MAY 26<br>MAY 13<br>MAY 04 | SEP 12<br>SEP 20<br>SEP 30 | SEP 28<br>OCT 04<br>OCT 16 | OCT 13<br>OCT 19<br>OCT 31 | 156<br>175<br>200       | 137<br>155<br>178 | 117<br>135<br>156 | 49<br>43<br>36                  |  |
| TOPEKA HSO                | 36<br>32<br>28                | APR 17<br>APR 08<br>MAR 26 | MAY 01<br>MAY 02<br>APR 08 | MAY 15<br>MAY 13<br>APR 21 | SEP 23<br>OCT 01<br>OCT 13 | OCT 06<br>OCT 14<br>OCT 27 | OCT 18<br>OCT 27<br>NOV 11 | 176<br>192<br>220       | 157<br>175<br>202 | 138<br>158<br>183 | 41<br>34<br>27                  |  |
| TORONTO DAM               | 36<br>32<br>28                | APR 10<br>MAR 31<br>MAR 20 | APR 24<br>APR 14<br>APR 02 | MAY 08<br>APR 29<br>APR 16 | SEP 29<br>OCT 08<br>OCT 18 | OCT 11<br>OCT 20<br>NOV 02 | OCT 24<br>NOV 01<br>NOV 16 | 188<br>207<br>231       | 170<br>188<br>213 | 152<br>169<br>194 | 38<br>32<br>25                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY *<br>(4) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|--------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                      |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                      |  |
| KANSAS                    |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                      |  |
| TRIBUNE 1 W               | 36<br>32<br>28                | MAY 01<br>APR 22<br>APR 11 | MAY 15<br>MAY 03<br>APR 25 | MAY 28<br>MAY 15<br>MAY 09 | SEP 12<br>SEP 18<br>OCT 07 | SEP 28<br>OCT 05<br>OCT 18 | OCT 14<br>OCT 22<br>OCT 30 | 156<br>176<br>192       | 136<br>154<br>175 | 115<br>132<br>159 | 50<br>44<br>36                       |  |
| TROY 3 SW                 | 36<br>32<br>28                | APR 14<br>APR 07<br>MAR 24 | APR 27<br>APR 18<br>APR 06 | MAY 10<br>APR 30<br>APR 19 | SEP 23<br>OCT 05<br>OCT 16 | OCT 09<br>OCT 19<br>OCT 30 | OCT 24<br>NOV 02<br>NOV 13 | 184<br>199<br>225       | 164<br>183<br>206 | 144<br>166<br>188 | 40<br>33<br>26                       |  |
| WAKEENEY                  | 36<br>32<br>28                | APR 19<br>APR 07<br>MAR 27 | MAY 01<br>APR 22<br>APR 12 | MAY 12<br>MAY 08<br>APR 27 | SEP 22<br>OCT 05<br>OCT 15 | OCT 07<br>OCT 19<br>OCT 29 | OCT 21<br>NOV 02<br>NOV 12 | 179<br>198<br>221       | 158<br>179<br>200 | 137<br>160<br>179 | 44<br>38<br>31                       |  |
| WAMEGO                    | 36<br>32<br>28                | APR 15<br>APR 04<br>MAR 25 | APR 29<br>APR 16<br>APR 08 | MAY 13<br>APR 29<br>APR 22 | SEP 27<br>OCT 09<br>OCT 17 | OCT 10<br>OCT 21<br>OCT 30 | OCT 23<br>NOV 02<br>NOV 12 | 182<br>206<br>226       | 163<br>187<br>204 | 144<br>167<br>183 | 39<br>33<br>25                       |  |
| WELLINGTON 2 S            | 36<br>32<br>28                | APR 09<br>MAR 29<br>MAR 24 | APR 25<br>APR 14<br>APR 05 | MAY 10<br>APR 29<br>APR 16 | OCT 02<br>OCT 09<br>OCT 18 | OCT 14<br>OCT 21<br>NOV 01 | OCT 26<br>NOV 02<br>NOV 16 | 191<br>208<br>230       | 172<br>190<br>210 | 152<br>171<br>189 | 36<br>30<br>22                       |  |
| WINFIELD                  | 36<br>32<br>28                | APR 16<br>APR 02<br>MAR 24 | APR 30<br>APR 14<br>APR 06 | MAY 13<br>APR 27<br>APR 19 | SEP 30<br>OCT 07<br>OCT 16 | OCT 13<br>OCT 20<br>NOV 01 | OCT 26<br>NOV 02<br>NOV 17 | 184<br>203<br>228       | 165<br>188<br>208 | 147<br>172<br>188 | 35<br>29<br>21                       |  |
| KENTUCKY                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                      |  |
| ASHLAND                   | 36<br>32<br>28                | APR 18<br>APR 12<br>MAR 21 | MAY 08<br>APR 27<br>APR 12 | MAY 28<br>MAY 13<br>MAY 04 | SEP 23<br>SEP 30<br>OCT 11 | OCT 09<br>OCT 18<br>OCT 28 | OCT 24<br>NOV 05<br>NOV 14 | 180<br>198<br>226       | 153<br>173<br>198 | 125<br>149<br>171 | 40<br>32<br>23                       |  |
| BARBOURVILLE              | 36<br>32<br>28                | APR 21<br>APR 12<br>MAR 25 | MAY 07<br>APR 27<br>APR 09 | MAY 22<br>MAY 12<br>APR 25 | SEP 23<br>OCT 06<br>OCT 13 | OCT 08<br>OCT 18<br>OCT 29 | OCT 22<br>OCT 30<br>NOV 14 | 172<br>190<br>224       | 153<br>173<br>202 | 134<br>156<br>179 | 37<br>30<br>22                       |  |
| BARDSTOWN                 | 36<br>32<br>28                | APR 19<br>APR 07<br>MAR 22 | MAY 05<br>APR 25<br>APR 06 | MAY 21<br>MAY 13<br>APR 21 | SEP 24<br>OCT 03<br>OCT 09 | OCT 06<br>OCT 16<br>OCT 23 | OCT 17<br>OCT 29<br>NOV 07 | 172<br>197<br>217       | 153<br>173<br>199 | 134<br>150<br>181 | 35<br>28<br>20                       |  |
| BAXTER                    | 36<br>32<br>28                | APR 17<br>APR 10<br>MAR 28 | MAY 05<br>APR 26<br>APR 10 | MAY 23<br>MAY 11<br>APR 23 | OCT 01<br>OCT 08<br>OCT 18 | OCT 11<br>OCT 21<br>NOV 01 | OCT 22<br>NOV 02<br>NOV 16 | 179<br>197<br>222       | 158<br>177<br>204 | 138<br>157<br>187 | 39<br>32<br>23                       |  |
| BEAVER DAM                | 36<br>32<br>28                | APR 14<br>APR 04<br>MAR 23 | MAY 02<br>APR 20<br>APR 06 | MAY 19<br>MAY 07<br>APR 19 | SEP 25<br>SEP 30<br>OCT 10 | OCT 07<br>OCT 14<br>OCT 25 | OCT 20<br>OCT 28<br>NOV 08 | 177<br>193<br>216       | 158<br>176<br>202 | 139<br>159<br>187 | 34<br>27<br>19                       |  |
| BEREA COLLEGE             | 36<br>32<br>28                | APR 12<br>MAR 31<br>MAR 21 | APR 29<br>APR 15<br>APR 05 | MAY 16<br>MAY 30<br>APR 21 | SEP 30<br>OCT 06<br>OCT 21 | OCT 11<br>OCT 22<br>NOV 04 | OCT 22<br>NOV 07<br>NOV 17 | 186<br>211<br>235       | 164<br>189<br>211 | 143<br>168<br>188 | 32<br>25<br>17                       |  |
| BOWLING GREEN FAA AP      | 36<br>32<br>28                | APR 06<br>MAR 28<br>MAR 19 | APR 23<br>APR 13<br>MAR 31 | MAY 11<br>APR 28<br>APR 12 | OCT 02<br>OCT 07<br>OCT 23 | OCT 14<br>OCT 21<br>NOV 04 | OCT 25<br>NOV 04<br>NOV 15 | 190<br>208<br>233       | 173<br>191<br>217 | 156<br>174<br>200 | 33<br>26<br>19                       |  |
| CAMPBELLSVILLE 2 SSW      | 36<br>32<br>28                | APR 17<br>MAR 31<br>MAR 24 | MAY 02<br>APR 16<br>APR 06 | MAY 17<br>MAY 01<br>APR 19 | SEP 29<br>OCT 06<br>OCT 15 | OCT 10<br>OCT 20<br>OCT 30 | OCT 21<br>NOV 03<br>NOV 13 | 178<br>205<br>226       | 160<br>187<br>206 | 143<br>169<br>186 | 33<br>25<br>18                       |  |
| CARROLLTON LOCK 1         | 36<br>32<br>28                | APR 15<br>APR 08<br>MAR 25 | MAY 02<br>APR 22<br>APR 07 | MAY 19<br>MAY 06<br>APR 20 | SEP 28<br>OCT 06<br>OCT 19 | OCT 10<br>OCT 18<br>OCT 30 | OCT 23<br>OCT 30<br>NOV 10 | 182<br>194<br>222       | 160<br>178<br>205 | 139<br>162<br>188 | 35<br>28<br>20                       |  |
| DANVILLE                  | 36<br>32<br>28                | APR 13<br>MAR 30<br>MAR 19 | APR 29<br>APR 15<br>APR 04 | MAY 16<br>MAY 01<br>APR 21 | SEP 30<br>OCT 10<br>OCT 23 | OCT 13<br>OCT 24<br>NOV 04 | OCT 26<br>NOV 07<br>NOV 16 | 188<br>212<br>235       | 166<br>192<br>213 | 145<br>172<br>191 | 36<br>29<br>21                       |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| KENTUCKY                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| FARMERS 1 WNW             | 36                            | APR 26                  | MAY 10 | MAY 23 | SEP 20                  | OCT 03 | OCT 16 | 161                     | 146 | 130 | 38                                |  |
|                           | 32                            | APR 14                  | APR 30 | MAY 16 | OCT 01                  | OCT 12 | OCT 24 | 182                     | 165 | 147 | 31                                |  |
|                           | 28                            | MAR 30                  | APR 14 | APR 29 | OCT 09                  | OCT 24 | NOV 08 | 211                     | 192 | 173 | 22                                |  |
| FORDS FERRY DAM 50        | 36                            | MAR 30                  | APR 15 | APR 30 | OCT 07                  | OCT 21 | NOV 05 | 208                     | 189 | 171 | 31                                |  |
|                           | 32                            | MAR 23                  | APR 03 | APR 15 | OCT 18                  | OCT 28 | NOV 08 | 222                     | 207 | 192 | 24                                |  |
|                           | 28                            | MAR 13                  | MAR 24 | APR 03 | OCT 26                  | NOV 09 | NOV 22 | 244                     | 229 | 214 | 16                                |  |
| FRANKFORT LOCK 4          | 36                            | APR 19                  | MAY 04 | MAY 20 | SEP 30                  | OCT 12 | OCT 24 | 180                     | 160 | 140 | 40                                |  |
|                           | 32                            | APR 09                  | APR 22 | MAY 05 | OCT 10                  | OCT 21 | NOV 02 | 198                     | 182 | 165 | 32                                |  |
|                           | 28                            | MAR 27                  | APR 08 | APR 20 | OCT 19                  | OCT 31 | NOV 13 | 225                     | 206 | 186 | 24                                |  |
| GREENSBURG                | 36                            | APR 17                  | MAY 04 | MAY 21 | SEP 30                  | OCT 11 | OCT 21 | 178                     | 159 | 140 | 38                                |  |
|                           | 32                            | APR 04                  | APR 20 | MAY 06 | OCT 05                  | OCT 16 | OCT 28 | 197                     | 179 | 160 | 30                                |  |
|                           | 28                            | MAR 23                  | APR 05 | APR 18 | OCT 19                  | NOV 01 | NOV 15 | 230                     | 210 | 189 | 23                                |  |
| HENDERSON 7 SSW           | 36                            | APR 08                  | APR 25 | MAY 12 | SEP 30                  | OCT 12 | OCT 25 | 189                     | 170 | 150 | 32                                |  |
|                           | 32                            | MAR 26                  | APR 08 | APR 21 | OCT 08                  | OCT 24 | NOV 08 | 214                     | 198 | 182 | 24                                |  |
|                           | 28                            | MAR 13                  | MAR 26 | APR 09 | OCT 19                  | NOV 03 | NOV 18 | 243                     | 221 | 199 | 17                                |  |
| HICKMAN 1 E               | 36                            | APR 02                  | APR 19 | MAY 06 | SEP 25                  | OCT 10 | OCT 24 | 193                     | 173 | 152 | 32                                |  |
|                           | 32                            | MAR 22                  | APR 03 | APR 15 | OCT 05                  | OCT 20 | NOV 03 | 218                     | 199 | 180 | 24                                |  |
|                           | 28                            | MAR 05                  | MAR 22 | APR 08 | OCT 21                  | NOV 03 | NOV 16 | 248                     | 226 | 204 | 17                                |  |
| HOPKINSVILLE              | 36                            | APR 03                  | APR 22 | MAY 10 | OCT 02                  | OCT 15 | OCT 27 | 196                     | 175 | 155 | 35                                |  |
|                           | 32                            | MAR 28                  | APR 11 | APR 25 | OCT 10                  | OCT 24 | NOV 06 | 212                     | 195 | 178 | 28                                |  |
|                           | 28                            | MAR 16                  | MAR 30 | APR 12 | OCT 22                  | NOV 04 | NOV 17 | 238                     | 219 | 200 | 20                                |  |
| LEITCHFIELD 2 N           | 36                            | APR 14                  | APR 29 | MAY 15 | SEP 28                  | OCT 12 | OCT 26 | 186                     | 165 | 143 | 34                                |  |
|                           | 32                            | MAR 31                  | APR 17 | MAY 04 | OCT 07                  | OCT 22 | NOV 05 | 210                     | 187 | 164 | 26                                |  |
|                           | 28                            | MAR 22                  | APR 02 | APR 13 | OCT 17                  | NOV 01 | NOV 16 | 229                     | 212 | 195 | 19                                |  |
| LEXINGTON WSO             | 36                            | APR 15                  | APR 29 | MAY 13 | SEP 30                  | OCT 14 | OCT 27 | 186                     | 167 | 148 | 34                                |  |
|                           | 32                            | APR 02                  | APR 17 | MAY 03 | OCT 10                  | OCT 25 | NOV 08 | 210                     | 190 | 169 | 27                                |  |
|                           | 28                            | MAR 19                  | APR 04 | APR 20 | OCT 18                  | NOV 02 | NOV 18 | 235                     | 211 | 187 | 19                                |  |
| LOVELACEVILLE             | 36                            | APR 12                  | APR 28 | MAY 14 | SEP 30                  | OCT 09 | OCT 17 | 181                     | 163 | 145 | 33                                |  |
|                           | 32                            | MAR 28                  | APR 14 | MAY 01 | OCT 06                  | OCT 18 | OCT 31 | 207                     | 187 | 166 | 26                                |  |
|                           | 28                            | MAR 20                  | APR 03 | APR 16 | OCT 13                  | OCT 27 | NOV 09 | 224                     | 206 | 188 | 19                                |  |
| MADISONVILLE 1 SE         | 36                            | APR 11                  | APR 27 | MAY 13 | SEP 28                  | OCT 10 | OCT 21 | 183                     | 165 | 146 | 32                                |  |
|                           | 32                            | MAR 29                  | APR 11 | APR 24 | OCT 05                  | OCT 18 | OCT 31 | 206                     | 189 | 172 | 25                                |  |
|                           | 28                            | MAR 17                  | MAR 30 | APR 11 | OCT 20                  | NOV 01 | NOV 13 | 234                     | 216 | 197 | 18                                |  |
| MAMMOTH CAVE PARK         | 36                            | APR 20                  | MAY 06 | MAY 22 | SEP 26                  | OCT 08 | OCT 19 | 172                     | 154 | 136 | 33                                |  |
|                           | 32                            | APR 14                  | APR 29 | MAY 15 | OCT 03                  | OCT 14 | OCT 25 | 182                     | 167 | 151 | 27                                |  |
|                           | 28                            | MAR 24                  | APR 10 | APR 27 | OCT 11                  | OCT 26 | NOV 10 | 220                     | 198 | 177 | 19                                |  |
| MANCHESTER 4 SE           | 36                            | APR 24                  | MAY 09 | MAY 24 | SEP 24                  | OCT 06 | OCT 18 | 169                     | 149 | 130 | 36                                |  |
|                           | 32                            | APR 16                  | MAY 02 | MAY 18 | OCT 03                  | OCT 15 | OCT 27 | 184                     | 165 | 147 | 29                                |  |
|                           | 28                            | MAR 29                  | APR 15 | MAY 02 | OCT 11                  | OCT 27 | NOV 11 | 218                     | 194 | 170 | 21                                |  |
| MAYFIELD RADIO WNGO       | 36                            | APR 10                  | APR 26 | MAY 12 | SEP 30                  | OCT 12 | OCT 24 | 186                     | 169 | 152 | 32                                |  |
|                           | 32                            | MAR 29                  | APR 12 | APR 27 | OCT 08                  | OCT 22 | NOV 04 | 211                     | 192 | 172 | 24                                |  |
|                           | 28                            | MAR 18                  | MAR 31 | APR 13 | OCT 24                  | NOV 05 | NOV 16 | 235                     | 218 | 201 | 17                                |  |
| MAYSVILLE SEWAGE PLANT    | 36                            | APR 20                  | MAY 05 | MAY 20 | SEP 27                  | OCT 08 | OCT 19 | 171                     | 155 | 139 | 41                                |  |
|                           | 32                            | APR 08                  | APR 26 | MAY 14 | OCT 09                  | OCT 21 | NOV 02 | 199                     | 177 | 156 | 33                                |  |
|                           | 28                            | MAR 25                  | APR 08 | APR 21 | OCT 18                  | OCT 31 | NOV 13 | 226                     | 206 | 185 | 25                                |  |
| MIDDLESBORO               | 36                            | APR 21                  | MAY 07 | MAY 23 | SEP 25                  | OCT 08 | OCT 20 | 171                     | 153 | 135 | 37                                |  |
|                           | 32                            | APR 14                  | APR 29 | MAY 15 | OCT 05                  | OCT 17 | OCT 29 | 190                     | 170 | 150 | 30                                |  |
|                           | 28                            | MAR 28                  | APR 12 | APR 26 | OCT 15                  | OCT 29 | NOV 13 | 221                     | 200 | 179 | 22                                |  |
| MOUNT STERLING            | 36                            | APR 17                  | MAY 01 | MAY 14 | SEP 28                  | OCT 11 | OCT 23 | 179                     | 162 | 145 | 34                                |  |
|                           | 32                            | APR 06                  | APR 21 | MAY 05 | OCT 09                  | OCT 22 | NOV 03 | 206                     | 183 | 161 | 27                                |  |
|                           | 28                            | MAR 21                  | APR 05 | APR 20 | OCT 18                  | NOV 01 | NOV 15 | 231                     | 210 | 188 | 19                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (*) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                 |  |
| KENTUCKY                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| MURRAY                    | 36<br>32<br>28                | MAR 31<br>MAR 24<br>MAR 14 | APR 17<br>APR 05<br>MAR 28 | MAY 03<br>APR 17<br>APR 11 | OCT 03<br>OCT 10<br>OCT 24 | OCT 15<br>OCT 26<br>NOV 07 | OCT 27<br>NOV 11<br>NOV 21 | 198<br>223<br>244       | 180<br>203<br>223 | 162<br>182<br>202 | 30<br>23<br>16                  |  |
| OWENSBORO 2 W             | 36<br>32<br>28                | APR 04<br>MAR 27<br>MAR 16 | APR 23<br>APR 10<br>MAR 30 | MAY 11<br>APR 24<br>APR 12 | SEP 26<br>OCT 05<br>OCT 18 | OCT 09<br>OCT 21<br>NOV 01 | OCT 22<br>NOV 05<br>NOV 15 | 190<br>211<br>237       | 169<br>193<br>216 | 148<br>174<br>195 | 32<br>25<br>17                  |  |
| PADUCAH SEWAGE PLANT      | 36<br>32<br>28                | MAR 30<br>MAR 24<br>MAR 05 | APR 18<br>APR 05<br>MAR 22 | MAY 07<br>APR 18<br>APR 08 | OCT 04<br>OCT 15<br>OCT 25 | OCT 14<br>OCT 28<br>NOV 07 | OCT 23<br>NOV 11<br>NOV 20 | 200<br>224<br>250       | 178<br>205<br>229 | 156<br>187<br>208 | 32<br>25<br>17                  |  |
| PRINCETON 1 SE            | 36<br>32<br>28                | APR 13<br>APR 27<br>MAR 21 | APR 30<br>APR 15<br>APR 04 | MAY 18<br>MAY 04<br>APR 18 | SEP 25<br>OCT 04<br>OCT 17 | OCT 08<br>OCT 18<br>OCT 30 | OCT 21<br>NOV 01<br>NOV 12 | 180<br>209<br>228       | 160<br>185<br>209 | 140<br>162<br>190 | 33<br>26<br>19                  |  |
| RUSSELLVILLE              | 36<br>32<br>28                | APR 13<br>APR 03<br>MAR 21 | MAY 01<br>APR 19<br>APR 02 | MAY 19<br>MAY 05<br>APR 14 | SEP 26<br>OCT 02<br>OCT 12 | OCT 08<br>OCT 16<br>OCT 27 | OCT 21<br>OCT 31<br>NOV 11 | 178<br>198<br>225       | 160<br>179<br>207 | 142<br>161<br>189 | 34<br>27<br>19                  |  |
| SCOTTSVILLE 3 SSW         | 36<br>32<br>28                | MAR 31<br>MAR 27<br>MAR 16 | APR 21<br>APR 15<br>MAR 30 | MAY 12<br>MAY 04<br>APR 14 | OCT 01<br>OCT 09<br>OCT 23 | OCT 15<br>OCT 23<br>NOV 06 | OCT 29<br>NOV 07<br>NOV 20 | 199<br>214<br>242       | 176<br>191<br>220 | 153<br>168<br>197 | 29<br>22<br>16                  |  |
| SHELBYVILLE               | 36<br>32<br>28                | APR 17<br>APR 04<br>MAR 25 | MAY 01<br>MAY 05<br>APR 08 | MAY 15<br>MAY 05<br>APR 23 | SEP 27<br>OCT 03<br>OCT 13 | OCT 09<br>OCT 18<br>OCT 28 | OCT 22<br>NOV 01<br>NOV 12 | 179<br>203<br>221       | 161<br>180<br>202 | 143<br>158<br>182 | 38<br>30<br>23                  |  |
| SOMERSET 2 N              | 36<br>32<br>28                | APR 18<br>APR 04<br>MAR 22 | MAY 04<br>MAY 22<br>APR 09 | MAY 21<br>MAY 10<br>APR 28 | SEP 24<br>OCT 04<br>OCT 10 | OCT 06<br>OCT 16<br>OCT 25 | OCT 18<br>OCT 28<br>NOV 10 | 173<br>198<br>222       | 154<br>177<br>198 | 136<br>156<br>174 | 35<br>28<br>20                  |  |
| SUMMER SHADE              | 36<br>32<br>28                | APR 15<br>APR 07<br>MAR 24 | MAY 02<br>MAY 08<br>APR 07 | MAY 19<br>MAY 08<br>APR 20 | SEP 26<br>OCT 06<br>OCT 13 | OCT 09<br>OCT 19<br>OCT 29 | OCT 22<br>NOV 02<br>NOV 14 | 178<br>200<br>225       | 159<br>179<br>205 | 140<br>158<br>185 | 34<br>27<br>19                  |  |
| VANCEBURG                 | 36<br>32<br>28                | APR 20<br>APR 13<br>MAR 23 | MAY 11<br>MAY 29<br>APR 14 | MAY 31<br>MAY 14<br>MAY 07 | SEP 21<br>SEP 27<br>OCT 09 | OCT 07<br>OCT 14<br>OCT 24 | OCT 22<br>OCT 30<br>NOV 09 | 176<br>191<br>224       | 148<br>168<br>192 | 120<br>144<br>161 | 39<br>31<br>23                  |  |
| WEST LIBERTY              | 36<br>32<br>28                | APR 26<br>APR 16<br>MAR 30 | MAY 10<br>MAY 02<br>APR 14 | MAY 24<br>MAY 18<br>APR 29 | SEP 21<br>SEP 26<br>OCT 10 | OCT 04<br>OCT 09<br>OCT 23 | OCT 18<br>OCT 22<br>NOV 05 | 165<br>177<br>209       | 147<br>159<br>191 | 129<br>141<br>173 | 43<br>36<br>27                  |  |
| WILLIAMSBURG 1 E          | 36<br>32<br>28                | APR 19<br>APR 09<br>MAR 23 | MAY 05<br>MAY 25<br>APR 09 | MAY 20<br>MAY 11<br>APR 26 | OCT 02<br>OCT 06<br>OCT 19 | OCT 13<br>OCT 18<br>NOV 02 | OCT 24<br>OCT 31<br>NOV 16 | 180<br>196<br>230       | 161<br>176<br>206 | 141<br>155<br>182 | 35<br>28<br>20                  |  |
| WILLIAMSTOWN 3 NW         | 36<br>32<br>28                | APR 15<br>APR 03<br>MAR 22 | MAY 01<br>APR 20<br>APR 06 | MAY 17<br>MAY 06<br>APR 22 | SEP 29<br>OCT 11<br>OCT 19 | OCT 10<br>OCT 22<br>NOV 02 | OCT 22<br>NOV 02<br>NOV 16 | 181<br>204<br>231       | 162<br>185<br>209 | 142<br>165<br>186 | 37<br>30<br>23                  |  |
| LOUISIANA                 |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| ALEXANDRIA                | 36<br>32<br>28                | MAR 05<br>FEB 12<br>JAN 19 | MAR 20<br>MAR 05<br>FEB 13 | APR 05<br>MAR 26<br>MAR 10 | OCT 21<br>OCT 31<br>NOV 11 | NOV 05<br>NOV 16<br>DEC 01 | NOV 19<br>DEC 02<br>DEC 20 | 247<br>281<br>318       | 229<br>255<br>290 | 210<br>229<br>262 | 14<br>9<br>4                    |  |
| AMITE                     | 36<br>32<br>28                | MAR 14<br>FEB 24<br>JAN 27 | MAR 28<br>MAR 10<br>FEB 23 | APR 11<br>MAR 25<br>MAR 21 | OCT 16<br>OCT 28<br>NOV 06 | NOV 02<br>NOV 14<br>NOV 27 | NOV 20<br>NOV 30<br>DEC 17 | 240<br>271<br>305       | 219<br>248<br>276 | 198<br>224<br>248 | 15<br>10<br>5                   |  |
| BASTROP                   | 36<br>32<br>28                | MAR 14<br>FEB 20<br>FEB 01 | MAR 29<br>MAR 10<br>FEB 24 | APR 13<br>MAR 28<br>MAR 19 | OCT 18<br>OCT 24<br>NOV 05 | NOV 01<br>NOV 11<br>NOV 23 | NOV 15<br>NOV 29<br>DEC 12 | 238<br>274<br>303       | 217<br>245<br>272 | 195<br>216<br>240 | 16<br>10<br>6                   |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE / FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| LOUISIANA                 |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| BELAH FIRE TOWER          | 36<br>32<br>28                | MAR 19<br>FEB 27<br>FEB 05 | MAR 31<br>MAR 13<br>FEB 28 | APR 11<br>MAR 28<br>MAR 23 | OCT 23<br>OCT 26<br>NOV 03 | NOV 04<br>NOV 10<br>NOV 25 | NOV 16<br>NOV 24<br>DEC 17 | 233<br>263<br>300       | 217<br>240<br>270 | 202<br>217<br>240 | 17<br>11<br>6                     |  |
| BOGALUSA                  | 36<br>32<br>28                | MAR 09<br>FEB 20<br>JAN 24 | MAR 22<br>MAR 08<br>FEB 19 | APR 03<br>MAR 23<br>MAR 16 | OCT 23<br>OCT 28<br>NOV 08 | NOV 06<br>NOV 14<br>NOV 29 | NOV 19<br>DEC 01<br>DEC 20 | 246<br>275<br>315       | 228<br>251<br>283 | 210<br>227<br>250 | 16<br>10<br>5                     |  |
| BUNKIE                    | 36<br>32<br>28                | MAR 01<br>FEB 08<br>JAN 19 | MAR 17<br>MAR 01<br>FEB 15 | APR 02<br>MAR 22<br>MAR 14 | OCT 22<br>OCT 27<br>NOV 08 | NOV 05<br>NOV 17<br>DEC 02 | NOV 20<br>DEC 09<br>DEC 26 | 255<br>289<br>323       | 233<br>260<br>289 | 210<br>231<br>256 | 15<br>9<br>4                      |  |
| CALHOUN EXP STATION       | 36<br>32<br>28                | MAR 21<br>MAR 05<br>FEB 14 | APR 03<br>MAR 20<br>MAR 03 | APR 15<br>APR 04<br>MAR 21 | OCT 10<br>OCT 22<br>NOV 01 | OCT 26<br>NOV 06<br>NOV 18 | NOV 10<br>NOV 20<br>DEC 05 | 222<br>249<br>283       | 205<br>230<br>258 | 188<br>211<br>234 | 20<br>14<br>8                     |  |
| CARVILLE 2 SW             | 36<br>32<br>28                | FEB 22<br>JAN 26<br>JAN 06 | MAR 11<br>FEB 21<br>FEB 06 | MAR 29<br>MAR 19<br>MAR 08 | OCT 30<br>NOV 11<br>NOV 21 | NOV 14<br>NOV 26<br>DEC 09 | NOV 29<br>DEC 12<br>DEC 28 | 270<br>308<br>340       | 247<br>278<br>306 | 224<br>247<br>272 | 9<br>5<br>2                       |  |
| COTTON VALLEY             | 36<br>32<br>28                | MAR 25<br>MAR 08<br>FEB 16 | APR 07<br>MAR 23<br>MAR 07 | APR 20<br>APR 08<br>MAR 27 | OCT 08<br>OCT 22<br>OCT 28 | OCT 23<br>NOV 05<br>NOV 12 | NOV 07<br>NOV 19<br>NOV 27 | 214<br>250<br>274       | 198<br>226<br>249 | 182<br>203<br>224 | 22<br>16<br>9                     |  |
| COVINGTON 4 NNW           | 36<br>32<br>28                | MAR 14<br>FEB 26<br>JAN 28 | MAR 27<br>MAR 14<br>FEB 22 | APR 09<br>MAR 29<br>MAR 20 | OCT 19<br>OCT 27<br>NOV 06 | NOV 01<br>NOV 11<br>NOV 26 | NOV 13<br>NOV 26<br>DEC 16 | 235<br>265<br>304       | 218<br>242<br>276 | 201<br>219<br>247 | 14<br>9<br>5                      |  |
| DONALDSONVILLE 3 E        | 36<br>32<br>28                | FEB 18<br>JAN 29<br>JAN 02 | MAR 09<br>FEB 22<br>FEB 04 | MAR 27<br>MAR 18<br>MAR 09 | OCT 28<br>NOV 04<br>NOV 13 | NOV 15<br>NOV 29<br>DEC 10 | DEC 04<br>DEC 23<br>JAN 09 | 281<br>308<br>353       | 251<br>279<br>308 | 222<br>249<br>273 | 10<br>5<br>2                      |  |
| ELIZABETH                 | 36<br>32<br>28                | MAR 10<br>FEB 20<br>JAN 17 | MAR 26<br>MAR 12<br>FEB 16 | APR 10<br>APR 01<br>MAR 18 | OCT 15<br>OCT 28<br>NOV 08 | NOV 02<br>NOV 14<br>NOV 30 | NOV 20<br>DEC 01<br>DEC 22 | 240<br>271<br>322       | 221<br>246<br>287 | 201<br>222<br>251 | 15<br>10<br>5                     |  |
| FRANKLIN 3 NW             | 36<br>32<br>28                | FEB 25<br>FEB 01<br>JAN 02 | MAR 13<br>FEB 24<br>FEB 04 | MAR 28<br>MAR 19<br>MAR 06 | OCT 26<br>NOV 06<br>NOV 15 | NOV 12<br>NOV 26<br>DEC 15 | NOV 29<br>DEC 15<br>JAN 18 | 268<br>304<br>>365      | 244<br>274<br>312 | 220<br>244<br>277 | 9<br>5<br>2                       |  |
| GRAND COTEAU              | 36<br>32<br>28                | FEB 26<br>FEB 03<br>JAN 14 | MAR 14<br>FEB 26<br>FEB 11 | MAR 29<br>MAR 22<br>MAR 12 | OCT 26<br>NOV 02<br>NOV 15 | NOV 11<br>NOV 21<br>DEC 04 | NOV 27<br>DEC 11<br>DEC 24 | 264<br>295<br>324       | 241<br>267<br>293 | 218<br>238<br>265 | 10<br>6<br>3                      |  |
| HACKBERRY 8 SSW           | 36<br>32<br>28                | FEB 12<br>JAN 16<br>DEC 23 | MAR 05<br>FEB 16<br>JAN 30 | MAR 27<br>MAR 18<br>MAR 09 | OCT 30<br>NOV 05<br>NOV 29 | NOV 21<br>DEC 01<br>DEC 25 | DEC 14<br>DEC 27<br>JAN 24 | 295<br>318<br>>365      | 260<br>288<br>327 | 225<br>257<br>283 | 7<br>4<br>1                       |  |
| HAMMOND 3 NW              | 36<br>32<br>28                | MAR 10<br>FEB 26<br>JAN 26 | MAR 25<br>MAR 15<br>FEB 21 | APR 09<br>APR 01<br>MAR 20 | OCT 18<br>OCT 25<br>NOV 10 | NOV 01<br>NOV 10<br>NOV 28 | NOV 15<br>NOV 25<br>DEC 16 | 241<br>263<br>311       | 221<br>239<br>279 | 200<br>215<br>247 | 14<br>9<br>5                      |  |
| HOMER EXP STATION         | 36<br>32<br>28                | MAR 21<br>MAR 06<br>FEB 16 | APR 02<br>MAR 22<br>MAR 07 | APR 14<br>APR 07<br>MAR 27 | OCT 14<br>OCT 28<br>NOV 03 | OCT 29<br>NOV 08<br>NOV 17 | NOV 13<br>NOV 19<br>DEC 01 | 225<br>249<br>281       | 209<br>230<br>254 | 193<br>212<br>226 | 19<br>14<br>8                     |  |
| HOUMA                     | 36<br>32<br>28                | FEB 15<br>JAN 23<br>DEC 27 | MAR 06<br>FEB 19<br>JAN 30 | MAR 24<br>MAR 18<br>MAR 05 | OCT 30<br>NOV 06<br>NOV 17 | NOV 15<br>NOV 29<br>DEC 18 | DEC 01<br>DEC 21<br>JAN 19 | 277<br>312<br>>365      | 253<br>282<br>317 | 230<br>253<br>286 | 8<br>4<br>2                       |  |
| JENNINGS                  | 36<br>32<br>28                | FEB 24<br>FEB 03<br>JAN 09 | MAR 12<br>FEB 26<br>FEB 07 | MAR 27<br>MAR 21<br>MAR 07 | OCT 23<br>NOV 01<br>NOV 13 | NOV 10<br>NOV 22<br>DEC 08 | NOV 28<br>DEC 14<br>JAN 02 | 267<br>297<br>328       | 243<br>269<br>302 | 218<br>240<br>278 | 10<br>6<br>2                      |  |
| LAFAYETTE FAA AIRPORT     | 36<br>32<br>28                | FEB 19<br>JAN 23<br>JAN 06 | MAR 09<br>FEB 18<br>FEB 02 | MAR 27<br>MAR 17<br>MAR 01 | OCT 26<br>NOV 06<br>NOV 15 | NOV 12<br>NOV 26<br>DEC 12 | NOV 29<br>DEC 17<br>JAN 09 | 275<br>308<br>348       | 248<br>280<br>311 | 221<br>252<br>278 | 9<br>5<br>2                       |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| <b>LOUISIANA</b>          |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| LAKE ARTHUR 10 SW         | 36                            | FEB 18                  | MAR 07 | MAR 23 | OCT 31                  | NOV 16 | DEC 02 | 277                     | 254 | 230 | 9                                 |  |
|                           | 32                            | JAN 21                  | FEB 18 | MAR 19 | NOV 08                  | DEC 01 | DEC 24 | 319                     | 285 | 251 | 4                                 |  |
|                           | 28                            | JAN 03                  | FEB 01 | MAR 01 | NOV 22                  | DEC 20 | JAN 17 | >365                    | 319 | 285 | 2                                 |  |
| LAKE PROVIDENCE           | 36                            | MAR 08                  | MAR 26 | APR 13 | OCT 17                  | NOV 02 | NOV 18 | 244                     | 220 | 196 | 17                                |  |
|                           | 32                            | FEB 16                  | MAR 08 | MAR 28 | OCT 28                  | NOV 13 | NOV 28 | 276                     | 249 | 223 | 11                                |  |
|                           | 28                            | JAN 25                  | FEB 21 | MAR 20 | NOV 05                  | NOV 24 | DEC 13 | 310                     | 275 | 240 | 6                                 |  |
| LEESVILLE                 | 36                            | MAR 16                  | MAR 31 | APR 14 | OCT 10                  | OCT 28 | NOV 15 | 232                     | 210 | 189 | 17                                |  |
|                           | 32                            | MAR 05                  | MAR 19 | APR 03 | OCT 21                  | NOV 06 | NOV 23 | 253                     | 231 | 209 | 12                                |  |
|                           | 28                            | FEB 08                  | MAR 02 | MAR 25 | OCT 29                  | NOV 19 | DEC 09 | 292                     | 261 | 229 | 6                                 |  |
| LOGANSPORT 4 ENE          | 36                            | MAR 23                  | APR 05 | APR 18 | OCT 07                  | OCT 22 | NOV 06 | 216                     | 199 | 183 | 20                                |  |
|                           | 32                            | MAR 15                  | MAR 29 | APR 12 | OCT 17                  | OCT 31 | NOV 14 | 234                     | 215 | 196 | 14                                |  |
|                           | 28                            | FEB 23                  | MAR 11 | MAR 28 | OCT 24                  | NOV 10 | NOV 27 | 269                     | 243 | 217 | 8                                 |  |
| MELVILLE                  | 36                            | MAR 01                  | MAR 18 | APR 05 | OCT 21                  | NOV 05 | NOV 20 | 255                     | 231 | 207 | 12                                |  |
|                           | 32                            | FEB 08                  | MAR 01 | MAR 22 | OCT 26                  | NOV 15 | DEC 06 | 286                     | 259 | 231 | 7                                 |  |
|                           | 28                            | JAN 18                  | FEB 12 | MAR 10 | NOV 09                  | NOV 30 | DEC 21 | 316                     | 290 | 263 | 4                                 |  |
| MINDEN                    | 36                            | MAR 21                  | APR 02 | APR 14 | OCT 17                  | OCT 29 | NOV 11 | 226                     | 210 | 193 | 21                                |  |
|                           | 32                            | MAR 09                  | MAR 21 | APR 02 | OCT 27                  | NOV 10 | NOV 23 | 248                     | 233 | 218 | 14                                |  |
|                           | 28                            | FEB 16                  | MAR 04 | MAR 20 | NOV 01                  | NOV 21 | DEC 11 | 288                     | 262 | 235 | 8                                 |  |
| MONROE FAA AIRPORT        | 36                            | MAR 14                  | MAR 28 | APR 11 | OCT 10                  | OCT 27 | NOV 12 | 232                     | 212 | 192 | 18                                |  |
|                           | 32                            | FEB 18                  | MAR 09 | MAR 27 | OCT 24                  | NOV 07 | NOV 20 | 267                     | 242 | 218 | 11                                |  |
|                           | 28                            | JAN 29                  | FEB 21 | MAR 15 | NOV 03                  | NOV 20 | DEC 06 | 297                     | 271 | 246 | 6                                 |  |
| MORGAN CITY               | 36                            | FEB 09                  | MAR 01 | MAR 22 | NOV 01                  | NOV 20 | DEC 10 | 292                     | 263 | 234 | 8                                 |  |
|                           | 32                            | JAN 11                  | FEB 11 | MAR 14 | NOV 13                  | DEC 04 | DEC 25 | 331                     | 296 | 261 | 4                                 |  |
|                           | 28                            | -                       | JAN 23 | FEB 22 | NOV 27                  | DEC 29 | -      | >365                    | 339 | 293 | 1                                 |  |
| NATCHITOCHES              | 36                            | MAR 10                  | MAR 26 | APR 12 | OCT 21                  | NOV 04 | NOV 18 | 244                     | 222 | 199 | 16                                |  |
|                           | 32                            | FEB 25                  | MAR 10 | MAR 24 | OCT 27                  | NOV 11 | NOV 27 | 270                     | 246 | 222 | 10                                |  |
|                           | 28                            | JAN 28                  | FEB 22 | MAR 19 | NOV 03                  | NOV 25 | DEC 17 | 307                     | 275 | 244 | 5                                 |  |
| NEW IBERIA 5 NW           | 36                            | FEB 24                  | MAR 11 | MAR 26 | OCT 25                  | NOV 10 | NOV 26 | 264                     | 244 | 223 | 9                                 |  |
|                           | 32                            | JAN 29                  | FEB 24 | MAR 22 | NOV 03                  | NOV 23 | DEC 14 | 300                     | 272 | 243 | 5                                 |  |
|                           | 28                            | JAN 10                  | FEB 06 | MAR 06 | NOV 16                  | DEC 10 | JAN 04 | 336                     | 306 | 277 | 2                                 |  |
| NEW ORLEANS MOISANT WS    | 36                            | FEB 09                  | MAR 08 | APR 04 | OCT 30                  | NOV 17 | DEC 05 | 286                     | 253 | 220 | 8                                 |  |
|                           | 32                            | JAN 21                  | FEB 20 | MAR 21 | NOV 15                  | DEC 05 | DEC 25 | 326                     | 288 | 249 | 4                                 |  |
|                           | 28                            | -                       | JAN 28 | MAR 01 | NOV 25                  | DEC 23 | -      | >365                    | 324 | 283 | 1                                 |  |
| OLLA 3 SSW                | 36                            | MAR 22                  | APR 03 | APR 15 | OCT 07                  | OCT 23 | NOV 08 | 221                     | 202 | 184 | 20                                |  |
|                           | 32                            | MAR 11                  | MAR 26 | APR 10 | OCT 19                  | NOV 03 | NOV 18 | 242                     | 221 | 201 | 14                                |  |
|                           | 28                            | FEB 11                  | MAR 02 | MAR 22 | OCT 28                  | NOV 13 | NOV 30 | 280                     | 255 | 231 | 8                                 |  |
| PLAIN DEALING             | 36                            | MAR 26                  | APR 07 | APR 18 | OCT 10                  | OCT 26 | NOV 11 | 217                     | 202 | 186 | 23                                |  |
|                           | 32                            | MAR 16                  | MAR 28 | APR 10 | OCT 24                  | NOV 05 | NOV 17 | 238                     | 221 | 204 | 17                                |  |
|                           | 28                            | FEB 28                  | MAR 13 | MAR 26 | OCT 25                  | NOV 14 | DEC 04 | 271                     | 245 | 219 | 10                                |  |
| RESERVE                   | 36                            | FEB 16                  | MAR 05 | MAR 23 | NOV 03                  | NOV 18 | DEC 04 | 279                     | 257 | 236 | 10                                |  |
|                           | 32                            | JAN 23                  | FEB 20 | MAR 19 | NOV 09                  | NOV 30 | DEC 21 | 315                     | 281 | 249 | 5                                 |  |
|                           | 28                            | DEC 29                  | FEB 03 | MAR 07 | NOV 17                  | DEC 23 | JAN 31 | 362                     | 317 | 282 | 2                                 |  |
| RUSTON LA POLYTECH INS    | 36                            | MAR 21                  | APR 02 | APR 13 | OCT 18                  | OCT 31 | NOV 12 | 227                     | 211 | 196 | 20                                |  |
|                           | 32                            | MAR 08                  | MAR 23 | APR 07 | OCT 26                  | NOV 07 | NOV 20 | 246                     | 228 | 210 | 14                                |  |
|                           | 28                            | FEB 15                  | MAR 04 | MAR 20 | NOV 01                  | NOV 21 | DEC 11 | 285                     | 261 | 238 | 7                                 |  |
| SAIN T JOSEPH EXP STA     | 36                            | MAR 14                  | MAR 28 | APR 12 | OCT 10                  | OCT 28 | NOV 16 | 238                     | 213 | 189 | 17                                |  |
|                           | 32                            | FEB 25                  | MAR 11 | MAR 25 | OCT 22                  | NOV 07 | NOV 22 | 263                     | 240 | 217 | 11                                |  |
|                           | 28                            | JAN 29                  | FEB 22 | MAR 17 | OCT 31                  | NOV 21 | DEC 12 | 302                     | 272 | 242 | 6                                 |  |
| TALLULAH 2 SW             | 36                            | MAR 17                  | MAR 30 | APR 13 | OCT 07                  | OCT 22 | NOV 07 | 228                     | 205 | 183 | 19                                |  |
|                           | 32                            | MAR 05                  | MAR 21 | APR 06 | OCT 17                  | NOV 02 | NOV 18 | 252                     | 225 | 198 | 13                                |  |
|                           | 28                            | FEB 11                  | MAR 02 | MAR 21 | OCT 26                  | NOV 14 | DEC 03 | 285                     | 256 | 227 | 7                                 |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F.) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|--------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                                | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                                | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| LOUISIANA                 |                                |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| VERMILION LOCK            | 36<br>32<br>28                 | FEB 25<br>JAN 30<br>JAN 12 | MAR 12<br>FEB 25<br>FEB 10 | MAR 26<br>MAR 22<br>MAR 11 | OCT 27<br>NOV 04<br>NOV 13 | NOV 12<br>NOV 25<br>DEC 09 | NOV 28<br>DEC 15<br>JAN 04 | 267<br>301<br>339       | 244<br>272<br>300 | 222<br>243<br>265 | 11<br>6<br>3                      |  |
| WINNFIELD 2 W             | 36<br>32<br>28                 | MAR 20<br>MAR 08<br>FEB 08 | APR 01<br>MAR 24<br>MAR 02 | APR 12<br>APR 08<br>MAR 24 | OCT 06<br>OCT 17<br>OCT 28 | OCT 23<br>NOV 01<br>NOV 13 | NOV 09<br>NOV 16<br>NOV 29 | 222<br>244<br>281       | 205<br>222<br>255 | 188<br>200<br>229 | 19<br>13<br>8                     |  |
| WINNSBORO                 | 36<br>32<br>28                 | MAR 18<br>MAR 02<br>FEB 04 | APR 01<br>MAR 17<br>FEB 27 | APR 14<br>MAR 31<br>MAR 22 | OCT 08<br>OCT 18<br>OCT 27 | OCT 25<br>NOV 03<br>NOV 15 | NOV 11<br>NOV 19<br>DEC 04 | 227<br>255<br>288       | 207<br>231<br>261 | 186<br>206<br>233 | 19<br>13<br>7                     |  |
| MAINE                     |                                |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| AUGUSTA FAA AIRPORT       | 36<br>32<br>28                 | APR 24<br>APR 14<br>APR 02 | MAY 11<br>APR 28<br>APR 14 | MAY 27<br>MAY 12<br>APR 27 | SEP 16<br>SEP 22<br>OCT 05 | SEP 28<br>OCT 08<br>OCT 22 | OCT 09<br>OCT 24<br>NOV 07 | 162<br>185<br>212       | 139<br>162<br>190 | 116<br>139<br>168 | 49<br>41<br>33                    |  |
| BAR HARBOR                | 36<br>32<br>28                 | APR 30<br>APR 21<br>APR 08 | MAY 13<br>MAY 04<br>APR 20 | MAY 26<br>MAY 17<br>MAY 01 | SEP 16<br>OCT 03<br>OCT 15 | OCT 02<br>OCT 17<br>OCT 30 | OCT 17<br>OCT 31<br>NOV 13 | 160<br>185<br>214       | 141<br>165<br>192 | 122<br>146<br>171 | 47<br>39<br>30                    |  |
| BELFAST                   | 36<br>32<br>28                 | MAY 10<br>APR 28<br>APR 15 | MAY 22<br>MAY 09<br>APR 23 | JUN 03<br>MAY 20<br>MAY 01 | SEP 12<br>SEP 21<br>OCT 02 | SEP 23<br>OCT 04<br>OCT 16 | OCT 04<br>OCT 18<br>OCT 30 | 138<br>165<br>191       | 124<br>148<br>176 | 109<br>130<br>160 | 51<br>43<br>33                    |  |
| CARIBOU WSO               | 36<br>32<br>28                 | MAY 17<br>MAY 04<br>APR 19 | JUN 01<br>MAY 18<br>MAY 04 | JUN 17<br>JUN 02<br>MAY 18 | SEP 02<br>SEP 07<br>SEP 18 | SEP 12<br>SEP 21<br>OCT 03 | SEP 22<br>OCT 06<br>OCT 19 | 120<br>142<br>169       | 102<br>126<br>152 | 84<br>109<br>135  | 58<br>51<br>42                    |  |
| CORINNA                   | 36<br>32<br>28                 | MAY 21<br>MAY 09<br>APR 25 | JUN 06<br>MAY 24<br>MAY 07 | JUN 21<br>JUN 08<br>MAY 19 | AUG 26<br>SEP 07<br>SEP 18 | SEP 07<br>SEP 19<br>OCT 01 | SEP 19<br>SEP 30<br>OCT 13 | 112<br>136<br>163       | 93<br>117<br>146  | 73<br>98<br>129   | 57<br>50<br>42                    |  |
| EASTPORT                  | 36<br>32<br>28                 | MAY 03<br>APR 14<br>APR 04 | MAY 18<br>APR 30<br>APR 17 | JUN 03<br>MAY 17<br>APR 30 | SEP 19<br>OCT 06<br>OCT 16 | OCT 01<br>OCT 16<br>OCT 31 | OCT 13<br>OCT 26<br>NOV 15 | 155<br>188<br>216       | 135<br>168<br>196 | 116<br>148<br>176 | 48<br>39<br>30                    |  |
| FARMINGTON                | 36<br>32<br>28                 | MAY 23<br>MAY 08<br>APR 23 | JUN 08<br>MAY 27<br>MAY 11 | JUN 24<br>JUN 16<br>MAY 28 | AUG 22<br>SEP 07<br>SEP 16 | SEP 05<br>SEP 17<br>SEP 29 | SEP 19<br>SEP 27<br>OCT 11 | 111<br>133<br>161       | 88<br>112<br>140  | 66<br>90<br>119   | 59<br>52<br>43                    |  |
| GARDINER                  | 36<br>32<br>28                 | MAY 08<br>APR 29<br>APR 13 | MAY 24<br>MAY 12<br>APR 29 | JUN 10<br>MAY 24<br>MAY 14 | SEP 05<br>SEP 14<br>SEP 27 | SEP 18<br>SEP 27<br>OCT 10 | SEP 30<br>OCT 10<br>OCT 23 | 135<br>156<br>186       | 115<br>138<br>164 | 95<br>119<br>142  | 54<br>47<br>38                    |  |
| HOUTON FAA AP             | 36<br>32<br>28                 | MAY 23<br>MAY 14<br>MAY 03 | JUN 12<br>MAY 31<br>MAY 15 | JUL 03<br>JUN 18<br>MAY 27 | AUG 25<br>SEP 03<br>SEP 14 | SEP 05<br>SEP 15<br>SEP 29 | SEP 15<br>SEP 27<br>OCT 13 | 107<br>125<br>153       | 83<br>106<br>136  | 60<br>87<br>119   | 60<br>52<br>44                    |  |
| HOUTON                    | 36<br>32<br>28                 | MAY 19<br>MAY 08<br>APR 25 | JUN 05<br>MAY 21<br>MAY 07 | JUN 23<br>JUN 03<br>MAY 20 | AUG 29<br>SEP 08<br>SEP 19 | SEP 09<br>SEP 21<br>OCT 03 | SEP 19<br>OCT 04<br>OCT 18 | 113<br>136<br>166       | 94<br>122<br>148  | 76<br>108<br>130  | 56<br>50<br>42                    |  |
| JONESBORO                 | 36<br>32<br>28                 | MAY 17<br>MAY 01<br>APR 20 | JUN 02<br>MAY 15<br>MAY 04 | JUN 18<br>MAY 30<br>MAY 18 | SEP 07<br>SEP 14<br>SEP 27 | SEP 16<br>SEP 27<br>OCT 10 | SEP 25<br>OCT 09<br>OCT 24 | 121<br>153<br>178       | 105<br>134<br>159 | 89<br>114<br>140  | 55<br>48<br>38                    |  |
| LEWISTON                  | 36<br>32<br>28                 | APR 29<br>APR 14<br>APR 01 | MAY 11<br>APR 27<br>APR 13 | MAY 23<br>MAY 10<br>APR 26 | SEP 19<br>OCT 03<br>OCT 14 | SEP 30<br>OCT 15<br>OCT 29 | OCT 11<br>OCT 27<br>NOV 12 | 156<br>188<br>217       | 141<br>171<br>197 | 127<br>153<br>178 | 49<br>41<br>32                    |  |
| MADISON                   | 36<br>32<br>28                 | MAY 22<br>MAY 04<br>APR 18 | JUN 04<br>MAY 16<br>MAY 01 | JUN 18<br>MAY 29<br>MAY 15 | SEP 03<br>SEP 16<br>SEP 25 | SEP 13<br>SEP 26<br>OCT 08 | SEP 24<br>OCT 06<br>OCT 22 | 116<br>147<br>179       | 100<br>132<br>159 | 85<br>117<br>140  | 56<br>49<br>40                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| MAINE                     |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| PORLTAND WSO              | 36<br>32<br>28                | MAY 06<br>APR 24<br>APR 10 | MAY 20<br>MAY 10<br>APR 26 | JUN 04<br>MAY 25<br>MAY 11 | SEP 08<br>SEP 18<br>SEP 25 | SEP 19<br>SEP 30<br>OCT 12 | OCT 01<br>OCT 12<br>OCT 30 | 142<br>155<br>197       | 122<br>143<br>169 | 101<br>121<br>140 | 51<br>44<br>35                    |  |
| PRESQUE ISLE              | 36<br>32<br>28                | MAY 25<br>MAY 10<br>APR 27 | JUN 06<br>MAY 24<br>MAY 10 | JUN 18<br>JUN 06<br>MAY 24 | AUG 23<br>SEP 04<br>SEP 15 | SEP 03<br>SEP 17<br>SEP 30 | SEP 15<br>SEP 29<br>OCT 15 | 104<br>129<br>160       | 89<br>116<br>142  | 73<br>102<br>124  | 58<br>51<br>42                    |  |
| RIPOGENUS DAM             | 36<br>32<br>28                | MAY 16<br>MAY 09<br>APR 25 | JUN 01<br>MAY 20<br>MAY 08 | JUN 16<br>MAY 31<br>MAY 22 | SEP 07<br>SEP 12<br>SEP 28 | SEP 17<br>SEP 26<br>OCT 10 | SEP 27<br>OCT 10<br>OCT 23 | 125<br>147<br>175       | 108<br>128<br>154 | 91<br>109<br>133  | 59<br>53<br>44                    |  |
| RUMFORD 1 SSE             | 36<br>32<br>28                | MAY 16<br>MAY 02<br>APR 17 | MAY 30<br>MAY 17<br>MAY 01 | JUN 14<br>JUN 01<br>MAY 15 | SEP 05<br>SEP 13<br>SEP 27 | SEP 17<br>SEP 25<br>OCT 11 | SEP 28<br>OCT 08<br>OCT 25 | 127<br>152<br>183       | 109<br>131<br>162 | 91<br>110<br>141  | 57<br>49<br>40                    |  |
| WATERVILLE PUMP STA       | 36<br>32<br>28                | MAY 11<br>APR 29<br>APR 15 | MAY 25<br>MAY 11<br>APR 26 | JUN 09<br>MAY 22<br>MAY 07 | SEP 06<br>SEP 17<br>OCT 05 | SEP 18<br>SEP 29<br>OCT 17 | SEP 29<br>OCT 11<br>OCT 28 | 132<br>156<br>191       | 115<br>140<br>173 | 97<br>125<br>155  | 53<br>45<br>37                    |  |
| MARYLAND                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| BALTIMORE CITY WSO        | 36<br>32<br>28                | MAR 28<br>MAR 10<br>MAR 03 | APR 09<br>MAR 26<br>MAR 18 | APR 21<br>APR 11<br>APR 02 | OCT 19<br>OCT 29<br>NOV 15 | NOV 03<br>NOV 13<br>NOV 29 | NOV 18<br>NOV 28<br>DEC 13 | 227<br>256<br>277       | 207<br>231<br>256 | 187<br>207<br>234 | 26<br>18<br>11                    |  |
| BELTSVILLE                | 36<br>32<br>28                | APR 24<br>APR 14<br>MAR 28 | MAY 07<br>APR 28<br>APR 12 | MAY 20<br>MAY 11<br>APR 27 | SEP 23<br>SEP 29<br>OCT 11 | OCT 07<br>OCT 14<br>OCT 26 | OCT 20<br>OCT 30<br>NOV 09 | 171<br>191<br>218       | 152<br>169<br>196 | 132<br>147<br>173 | 41<br>33<br>25                    |  |
| BENSON POLICE BARRACKS    | 36<br>32<br>28                | APR 18<br>APR 11<br>MAR 26 | MAY 04<br>APR 21<br>APR 08 | MAY 20<br>MAY 02<br>APR 21 | SEP 24<br>SEP 28<br>OCT 15 | OCT 08<br>OCT 16<br>NOV 01 | OCT 22<br>NOV 02<br>NOV 18 | 179<br>198<br>230       | 156<br>177<br>207 | 133<br>156<br>183 | 39<br>32<br>23                    |  |
| CAMBRIDGE 4 W             | 36<br>32<br>28                | APR 08<br>MAR 22<br>MAR 14 | APR 22<br>APR 09<br>APR 27 | MAY 06<br>APR 26<br>APR 09 | SEP 30<br>OCT 13<br>OCT 20 | OCT 16<br>OCT 29<br>NOV 07 | OCT 31<br>NOV 13<br>NOV 24 | 200<br>229<br>247       | 176<br>203<br>223 | 152<br>176<br>200 | 32<br>23<br>17                    |  |
| CHESTERTOWN               | 36<br>32<br>28                | APR 06<br>MAR 28<br>MAR 11 | APR 20<br>APR 07<br>MAR 25 | MAY 03<br>APR 18<br>APR 08 | OCT 06<br>OCT 18<br>OCT 26 | OCT 20<br>NOV 01<br>NOV 12 | NOV 04<br>NOV 15<br>NOV 30 | 204<br>225<br>254       | 183<br>206<br>232 | 162<br>188<br>210 | 34<br>26<br>17                    |  |
| COLLEGE PARK              | 36<br>32<br>28                | APR 20<br>APR 01<br>MAR 21 | MAY 03<br>APR 18<br>APR 04 | MAY 17<br>MAY 04<br>APR 18 | SEP 27<br>OCT 08<br>OCT 16 | OCT 10<br>OCT 21<br>NOV 02 | OCT 23<br>NOV 04<br>NOV 18 | 180<br>210<br>234       | 159<br>186<br>211 | 138<br>161<br>188 | 35<br>27<br>19                    |  |
| CONOWINGO DAM             | 36<br>32<br>28                | APR 12<br>APR 06<br>MAR 20 | APR 28<br>APR 17<br>APR 01 | MAY 13<br>APR 29<br>APR 13 | SEP 26<br>OCT 08<br>OCT 24 | OCT 12<br>OCT 24<br>NOV 06 | OCT 29<br>NOV 08<br>NOV 19 | 191<br>210<br>238       | 167<br>189<br>218 | 143<br>167<br>198 | 39<br>31<br>22                    |  |
| CRISFIELD SOMERS COVE     | 36<br>32<br>28                | MAR 24<br>MAR 16<br>FEB 23 | APR 06<br>MAR 30<br>MAR 13 | APR 18<br>APR 12<br>MAR 31 | OCT 19<br>OCT 29<br>NOV 15 | NOV 01<br>NOV 14<br>NOV 29 | NOV 14<br>DEC 01<br>DEC 14 | 227<br>249<br>267       | 209<br>229<br>261 | 190<br>209<br>234 | 24<br>16<br>10                    |  |
| CUMBERLAND 2              | 36<br>32<br>28                | APR 21<br>APR 08<br>MAR 27 | MAY 06<br>APR 27<br>APR 12 | MAY 21<br>MAY 16<br>APR 27 | SEP 19<br>SEP 28<br>OCT 10 | OCT 02<br>OCT 12<br>OCT 25 | OCT 15<br>NOV 09           | 168<br>193<br>218       | 148<br>167<br>196 | 129<br>140<br>174 | 41<br>32<br>23                    |  |
| DALECARLIA RESVR D C      | 36<br>32<br>28                | APR 13<br>MAR 31<br>MAR 18 | APR 28<br>APR 14<br>APR 04 | MAY 13<br>APR 27<br>APR 21 | SEP 28<br>OCT 11<br>OCT 22 | OCT 14<br>OCT 26<br>NOV 06 | OCT 30<br>NOV 10<br>NOV 21 | 191<br>216<br>239       | 169<br>195<br>215 | 146<br>173<br>191 | 35<br>27<br>19                    |  |
| DENTON 1 WNW              | 36<br>32<br>28                | APR 15<br>APR 05<br>MAR 22 | APR 29<br>APR 17<br>APR 03 | MAY 12<br>APR 29<br>APR 15 | SEP 26<br>OCT 07<br>OCT 19 | OCT 11<br>OCT 21<br>NOV 04 | OCT 25<br>NOV 04<br>NOV 20 | 187<br>204<br>234       | 164<br>186<br>215 | 141<br>169<br>196 | 35<br>27<br>19                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| MARYLAND                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| EASTON POLICE BARRACKS    | 36<br>32<br>28                | APR 11<br>MAR 29<br>MAR 11 | APR 26<br>APR 10<br>MAR 26 | MAY 11<br>APR 23<br>APR 11 | SEP 30<br>OCT 15<br>OCT 23 | OCT 16<br>OCT 31<br>NOV 09 | OCT 31<br>NOV 16<br>NOV 26 | 194<br>224<br>251       | 172<br>203<br>227 | 150<br>181<br>203 | 32<br>24<br>16                    |  |
| GLENN DALE BELL STA       | 36<br>32<br>28                | APR 27<br>APR 14<br>APR 03 | MAY 12<br>APR 28<br>APR 17 | MAY 28<br>MAY 13<br>APR 30 | SEP 22<br>SEP 26<br>OCT 09 | OCT 04<br>OCT 10<br>OCT 25 | OCT 16<br>OCT 23<br>NOV 09 | 164<br>187<br>211       | 144<br>164<br>190 | 124<br>140<br>169 | 40<br>32<br>24                    |  |
| HAGERSTOWN                | 36<br>32<br>28                | APR 15<br>APR 03<br>MAR 25 | MAY 02<br>APR 18<br>APR 06 | MAY 18<br>MAY 03<br>APR 18 | SEP 22<br>SEP 29<br>OCT 14 | OCT 06<br>OCT 18<br>OCT 30 | OCT 20<br>NOV 05<br>NOV 14 | 180<br>208<br>227       | 157<br>182<br>206 | 133<br>155<br>185 | 38<br>30<br>21                    |  |
| HANCOCK FRUIT LAB         | 36<br>32<br>28                | MAY 05<br>APR 25<br>APR 09 | MAY 20<br>MAY 08<br>APR 24 | JUN 05<br>MAY 22<br>MAY 10 | SEP 16<br>SEP 21<br>SEP 29 | SEP 28<br>OCT 06<br>OCT 16 | OCT 09<br>OCT 20<br>NOV 02 | 148<br>170<br>199       | 129<br>150<br>175 | 111<br>130<br>150 | 44<br>36<br>27                    |  |
| LA PLATA 1 W              | 36<br>32<br>28                | APR 20<br>APR 08<br>MAR 26 | MAY 05<br>APR 24<br>APR 08 | MAY 21<br>MAY 10<br>APR 20 | SEP 25<br>OCT 06<br>OCT 16 | OCT 09<br>OCT 21<br>NOV 01 | OCT 23<br>NOV 05<br>NOV 17 | 179<br>205<br>228       | 156<br>179<br>207 | 133<br>153<br>185 | 36<br>28<br>20                    |  |
| LAUREL 3 W                | 36<br>32<br>28                | APR 05<br>MAR 27<br>MAR 13 | APR 20<br>APR 09<br>APR 27 | MAY 05<br>MAY 22<br>APR 10 | OCT 05<br>OCT 14<br>OCT 30 | OCT 21<br>OCT 31<br>NOV 17 | NOV 05<br>NOV 18<br>DEC 05 | 205<br>227<br>260       | 183<br>204<br>234 | 162<br>182<br>209 | 33<br>25<br>16                    |  |
| MILLINGTON                | 36<br>32<br>28                | APR 15<br>APR 08<br>MAR 23 | MAY 03<br>APR 21<br>APR 07 | MAY 21<br>MAY 05<br>APR 22 | SEP 23<br>OCT 01<br>OCT 15 | OCT 07<br>OCT 15<br>OCT 29 | OCT 20<br>OCT 29<br>NOV 12 | 181<br>196<br>228       | 156<br>176<br>204 | 130<br>155<br>181 | 38<br>30<br>22                    |  |
| NATIONAL ARBORETUM D C    | 36<br>32<br>28                | APR 07<br>MAR 27<br>MAR 14 | APR 21<br>APR 10<br>MAR 29 | MAY 05<br>APR 23<br>APR 13 | OCT 02<br>OCT 17<br>OCT 21 | OCT 18<br>OCT 31<br>NOV 09 | NOV 02<br>NOV 13<br>NOV 28 | 200<br>223<br>251       | 179<br>203<br>224 | 157<br>184<br>197 | 32<br>24<br>16                    |  |
| OAKLAND 1 SE              | 36<br>32<br>28                | MAY 19<br>MAY 05<br>APR 25 | JUN 08<br>MAY 20<br>MAY 09 | JUN 27<br>JUN 05<br>MAY 23 | AUG 19<br>SEP 10<br>SEP 20 | SEP 08<br>SEP 25<br>OCT 06 | SEP 29<br>OCT 09<br>OCT 22 | 121<br>147<br>173       | 92<br>127<br>149  | 63<br>106<br>126  | 50<br>43<br>34                    |  |
| OWINGS FERRY LANDING      | 36<br>32<br>28                | APR 09<br>MAR 31<br>MAR 11 | APR 23<br>APR 12<br>APR 13 | MAY 08<br>MAY 24<br>APR 27 | SEP 29<br>OCT 10<br>OCT 26 | OCT 13<br>OCT 26<br>NOV 11 | OCT 27<br>NOV 10<br>NOV 28 | 194<br>216<br>252       | 172<br>196<br>229 | 150<br>175<br>205 | 33<br>25<br>17                    |  |
| POCOMOKE CITY             | 36<br>32<br>28                | APR 19<br>APR 06<br>MAR 15 | MAY 05<br>APR 22<br>APR 04 | MAY 22<br>MAY 08<br>APR 24 | SEP 23<br>OCT 03<br>OCT 15 | OCT 08<br>OCT 19<br>NOV 02 | OCT 24<br>NOV 03<br>NOV 21 | 184<br>205<br>242       | 155<br>179<br>211 | 127<br>152<br>180 | 32<br>25<br>17                    |  |
| PRINCESS ANNE             | 36<br>32<br>28                | APR 23<br>APR 11<br>MAR 27 | MAY 05<br>APR 27<br>APR 11 | MAY 17<br>MAY 13<br>APR 25 | SEP 20<br>OCT 01<br>OCT 11 | OCT 04<br>OCT 14<br>OCT 27 | OCT 18<br>OCT 27<br>NOV 11 | 169<br>190<br>222       | 151<br>169<br>198 | 133<br>148<br>174 | 35<br>28<br>20                    |  |
| ROCKVILLE 4 NE            | 36<br>32<br>28                | APR 12<br>APR 05<br>MAR 15 | MAY 02<br>APR 24<br>APR 05 | MAY 23<br>MAY 12<br>APR 27 | SEP 25<br>SEP 30<br>OCT 12 | OCT 10<br>OCT 18<br>OCT 31 | OCT 26<br>NOV 04<br>NOV 20 | 188<br>206<br>238       | 160<br>176<br>208 | 132<br>147<br>178 | 37<br>29<br>20                    |  |
| ROYAL OAK                 | 36<br>32<br>28                | APR 07<br>MAR 24<br>MAR 07 | APR 18<br>APR 03<br>MAR 22 | APR 29<br>APR 13<br>APR 05 | OCT 07<br>OCT 16<br>OCT 29 | OCT 22<br>NOV 02<br>NOV 15 | NOV 06<br>NOV 19<br>DEC 01 | 207<br>234<br>262       | 187<br>212<br>237 | 166<br>190<br>212 | 30<br>22<br>15                    |  |
| SALISBURY                 | 36<br>32<br>28                | APR 11<br>MAR 29<br>MAR 06 | APR 25<br>APR 11<br>MAR 24 | MAY 09<br>MAY 23<br>APR 10 | SEP 30<br>OCT 11<br>OCT 22 | OCT 16<br>OCT 26<br>NOV 09 | OCT 31<br>NOV 09<br>NOV 26 | 195<br>218<br>257       | 173<br>197<br>229 | 151<br>177<br>201 | 31<br>23<br>15                    |  |
| SALISBURY FAA AIRPORT     | 36<br>32<br>28                | APR 15<br>MAR 31<br>MAR 11 | APR 28<br>APR 16<br>APR 17 | MAY 10<br>MAY 01<br>APR 17 | SEP 30<br>OCT 09<br>OCT 21 | OCT 11<br>OCT 24<br>NOV 03 | OCT 22<br>NOV 08<br>NOV 16 | 182<br>209<br>242       | 166<br>190<br>218 | 149<br>171<br>194 | 33<br>26<br>17                    |  |
| SAVAGE RIVER DAM          | 36<br>32<br>28                | MAY 06<br>APR 21<br>APR 07 | MAY 21<br>MAY 05<br>APR 21 | JUN 05<br>MAY 18<br>MAY 05 | SEP 16<br>SEP 21<br>SEP 30 | SEP 29<br>OCT 06<br>OCT 17 | OCT 11<br>OCT 21<br>NOV 03 | 150<br>174<br>203       | 130<br>154<br>179 | 110<br>133<br>155 | 47<br>40<br>31                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP. THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>DURATION (A) * |  |
|---------------------------|--------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|--------------------------------|--|
|                           |                                | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                |  |
|                           |                                | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                |  |
| <b>MARYLAND</b>           |                                |                         |        |        |                         |        |        |                         |     |     |                                |  |
| SNOW HILL 4 N             | 36                             | APR 16                  | APR 29 | MAY 12 | SEP 29                  | OCT 10 | OCT 22 | 182                     | 164 | 145 | 32                             |  |
|                           | 32                             | APR 06                  | APR 20 | MAY 04 | OCT 08                  | OCT 24 | NOV 08 | 203                     | 186 | 169 | 25                             |  |
|                           | 28                             | MAR 19                  | APR 02 | APR 16 | OCT 18                  | NOV 02 | NOV 16 | 233                     | 213 | 192 | 17                             |  |
| SOLOMONS                  | 36                             | MAR 29                  | APR 12 | APR 25 | OCT 17                  | NOV 03 | NOV 21 | 232                     | 205 | 178 | 26                             |  |
|                           | 32                             | MAR 16                  | MAR 29 | APR 10 | OCT 29                  | NOV 18 | DEC 08 | 262                     | 234 | 206 | 17                             |  |
|                           | 28                             | MAR 01                  | MAR 15 | MAR 30 | NOV 16                  | NOV 30 | DEC 13 | 278                     | 259 | 240 | 10                             |  |
| UNIONVILLE                | 36                             | MAY 03                  | MAY 17 | MAY 31 | SEP 16                  | SEP 27 | OCT 08 | 150                     | 133 | 116 | 44                             |  |
|                           | 32                             | APR 22                  | MAY 06 | MAY 19 | SEP 22                  | OCT 06 | OCT 19 | 172                     | 152 | 132 | 36                             |  |
|                           | 28                             | APR 09                  | APR 24 | MAY 10 | OCT 01                  | OCT 18 | NOV 03 | 198                     | 176 | 153 | 28                             |  |
| VIENNA                    | 36                             | APR 08                  | APR 22 | MAY 06 | SEP 29                  | OCT 14 | OCT 28 | 197                     | 174 | 151 | 31                             |  |
|                           | 32                             | MAR 26                  | APR 09 | APR 23 | OCT 07                  | OCT 25 | NOV 12 | 223                     | 198 | 173 | 23                             |  |
|                           | 28                             | MAR 08                  | MAR 24 | APR 09 | OCT 25                  | NOV 07 | NOV 21 | 253                     | 228 | 202 | 15                             |  |
| WESTMINSTER POLICE BRK    | 36                             | APR 15                  | MAY 02 | MAY 19 | OCT 01                  | OCT 17 | NOV 02 | 192                     | 167 | 143 | 38                             |  |
|                           | 32                             | APR 04                  | APR 19 | MAY 04 | OCT 17                  | OCT 30 | NOV 11 | 211                     | 193 | 175 | 30                             |  |
|                           | 28                             | MAR 18                  | APR 01 | APR 15 | OCT 31                  | NOV 09 | NOV 19 | 239                     | 221 | 204 | 21                             |  |
| WOODSTOCK                 | 36                             | APR 24                  | MAY 09 | MAY 24 | SEP 22                  | OCT 05 | OCT 17 | 168                     | 148 | 128 | 40                             |  |
|                           | 32                             | APR 13                  | APR 28 | MAY 13 | SEP 26                  | OCT 12 | OCT 28 | 189                     | 166 | 143 | 33                             |  |
|                           | 28                             | APR 01                  | APR 13 | APR 25 | OCT 11                  | OCT 26 | NOV 10 | 216                     | 195 | 173 | 24                             |  |
| <b>MASSACHUSETTS</b>      |                                |                         |        |        |                         |        |        |                         |     |     |                                |  |
| AMHERST                   | 36                             | MAY 07                  | MAY 23 | JUN 08 | SEP 02                  | SEP 17 | OCT 02 | 143                     | 117 | 90  | 49                             |  |
|                           | 32                             | APR 23                  | MAY 09 | MAY 26 | SEP 16                  | SEP 29 | OCT 13 | 165                     | 142 | 119 | 42                             |  |
|                           | 28                             | APR 06                  | APR 23 | MAY 11 | SEP 27                  | OCT 12 | OCT 28 | 194                     | 171 | 148 | 32                             |  |
| BIRCH HILL DAM            | 36                             | MAY 25                  | JUN 10 | JUN 25 | AUG 14                  | AUG 31 | SEP 17 | 106                     | 81  | 56  | 55                             |  |
|                           | 32                             | MAY 12                  | MAY 28 | JUN 13 | SEP 02                  | SEP 14 | SEP 27 | 130                     | 109 | 87  | 47                             |  |
|                           | 28                             | APR 22                  | MAY 08 | MAY 24 | SEP 17                  | SEP 29 | OCT 10 | 161                     | 143 | 124 | 38                             |  |
| BLUE HILL WSO             | 36                             | APR 21                  | MAY 05 | MAY 18 | SEP 23                  | OCT 06 | OCT 19 | 173                     | 154 | 134 | 43                             |  |
|                           | 32                             | APR 09                  | APR 22 | MAY 05 | OCT 06                  | OCT 21 | NOV 05 | 198                     | 181 | 165 | 35                             |  |
|                           | 28                             | MAR 29                  | APR 10 | APR 21 | OCT 17                  | NOV 03 | NOV 19 | 227                     | 206 | 185 | 26                             |  |
| CHESTNUT HILL             | 36                             | APR 21                  | MAY 05 | MAY 20 | SEP 25                  | OCT 09 | OCT 23 | 175                     | 156 | 137 | 41                             |  |
|                           | 32                             | APR 07                  | APR 20 | MAY 03 | OCT 05                  | OCT 20 | NOV 05 | 203                     | 183 | 162 | 33                             |  |
|                           | 28                             | MAR 24                  | APR 05 | APR 18 | OCT 14                  | NOV 01 | NOV 20 | 233                     | 209 | 186 | 25                             |  |
| CLINTON                   | 36                             | APR 30                  | MAY 16 | JUN 01 | SEP 17                  | SEP 29 | OCT 11 | 156                     | 135 | 114 | 47                             |  |
|                           | 32                             | APR 14                  | APR 29 | MAY 14 | SEP 22                  | OCT 08 | OCT 24 | 185                     | 161 | 137 | 40                             |  |
|                           | 28                             | APR 01                  | APR 13 | APR 24 | OCT 03                  | OCT 23 | NOV 11 | 217                     | 192 | 168 | 31                             |  |
| EAST WAREHAM              | 36                             | APR 27                  | MAY 09 | MAY 20 | SEP 19                  | OCT 03 | OCT 17 | 165                     | 146 | 128 | 44                             |  |
|                           | 32                             | APR 14                  | APR 26 | MAY 09 | OCT 05                  | OCT 16 | OCT 28 | 188                     | 172 | 156 | 36                             |  |
|                           | 28                             | APR 04                  | APR 16 | APR 28 | OCT 17                  | OCT 28 | NOV 08 | 213                     | 194 | 175 | 27                             |  |
| EDGARTOWN                 | 36                             | APR 30                  | MAY 12 | MAY 24 | SEP 30                  | OCT 13 | OCT 27 | 173                     | 154 | 135 | 42                             |  |
|                           | 32                             | APR 14                  | APR 28 | MAY 12 | OCT 09                  | OCT 22 | NOV 04 | 197                     | 176 | 156 | 33                             |  |
|                           | 28                             | MAR 26                  | APR 12 | APR 29 | OCT 22                  | NOV 08 | NOV 25 | 236                     | 209 | 182 | 24                             |  |
| FRAMINGHAM                | 36                             | APR 24                  | MAY 08 | MAY 22 | SEP 20                  | OCT 02 | OCT 14 | 167                     | 146 | 125 | 45                             |  |
|                           | 32                             | APR 11                  | APR 26 | MAY 10 | SEP 29                  | OCT 11 | OCT 24 | 186                     | 168 | 149 | 38                             |  |
|                           | 28                             | MAR 25                  | APR 08 | APR 21 | OCT 09                  | OCT 25 | NOV 10 | 219                     | 199 | 180 | 29                             |  |
| HAVERHILL                 | 36                             | APR 22                  | MAY 08 | MAY 23 | SEP 18                  | OCT 02 | OCT 15 | 167                     | 146 | 126 | 44                             |  |
|                           | 32                             | APR 13                  | APR 23 | MAY 02 | OCT 06                  | OCT 17 | OCT 28 | 193                     | 177 | 161 | 35                             |  |
|                           | 28                             | MAR 28                  | APR 10 | APR 22 | OCT 15                  | OCT 28 | NOV 11 | 221                     | 201 | 182 | 27                             |  |
| HYANNIS 2 NNE             | 36                             | APR 30                  | MAY 17 | JUN 03 | SEP 14                  | SEP 29 | OCT 15 | 162                     | 144 | 106 | 42                             |  |
|                           | 32                             | APR 15                  | MAY 05 | MAY 26 | SEP 25                  | OCT 12 | OCT 29 | 189                     | 159 | 129 | 33                             |  |
|                           | 28                             | APR 02                  | APR 23 | MAY 13 | OCT 07                  | OCT 26 | NOV 13 | 215                     | 185 | 156 | 24                             |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                   |  |
| MASSACHUSETTS             |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                   |  |
| KNIGHTVILLE DAM           | 36<br>32<br>28                | MAY 23<br>MAY 05<br>APR 21 | JUN 04<br>MAY 19<br>MAY 05 | JUN 16<br>JUN 02<br>MAY 19 | SEP 03<br>SEP 11<br>SEP 20 | SEP 13<br>SEP 23<br>OCT 05 | SEP 24<br>OCT 05<br>OCT 21 | 116<br>146<br>174          | 100<br>126<br>153 | 85<br>106<br>131  | 55<br>48<br>39                    |  |
| LAWRENCE                  | 36<br>32<br>28                | APR 20<br>APR 08<br>MAR 25 | MAY 04<br>APR 20<br>APR 07 | MAY 19<br>MAY 02<br>APR 19 | SEP 24<br>OCT 08<br>OCT 18 | OCT 05<br>OCT 20<br>NOV 03 | OCT 16<br>NOV 01<br>NOV 18 | 172<br>200<br>229          | 153<br>182<br>210 | 134<br>164<br>190 | 44<br>36<br>27                    |  |
| MIDDLETON                 | 36<br>32<br>28                | APR 21<br>APR 06<br>MAR 27 | MAY 09<br>APR 27<br>APR 11 | MAY 28<br>MAY 17<br>APR 27 | SEP 12<br>SEP 25<br>OCT 05 | SEP 27<br>OCT 11<br>OCT 25 | OCT 12<br>OCT 27<br>NOV 15 | 168<br>195<br>227          | 140<br>167<br>196 | 112<br>138<br>166 | 44<br>35<br>27                    |  |
| NANTUCKET FAA AP          | 36<br>32<br>28                | APR 20<br>APR 03<br>MAR 21 | MAY 09<br>APR 18<br>APR 04 | MAY 27<br>MAY 02<br>APR 18 | OCT 01<br>OCT 16<br>NOV 15 | OCT 19<br>NOV 03<br>NOV 15 | NOV 07<br>NOV 22<br>DEC 03 | 193<br>226<br>252          | 163<br>199<br>225 | 134<br>172<br>198 | 37<br>28<br>19                    |  |
| NEW BEDFORD               | 36<br>32<br>28                | APR 04<br>MAR 23<br>MAR 12 | APR 18<br>APR 06<br>MAR 26 | MAY 03<br>APR 20<br>APR 08 | OCT 10<br>OCT 22<br>NOV 06 | OCT 25<br>NOV 10<br>NOV 22 | NOV 08<br>NOV 28<br>DEC 09 | 210<br>243<br>267          | 188<br>217<br>241 | 167<br>191<br>216 | 33<br>24<br>17                    |  |
| PLYMOUTH                  | 36<br>32<br>28                | APR 28<br>APR 11<br>MAR 30 | MAY 15<br>MAY 02<br>APR 16 | JUN 01<br>MAY 23<br>MAY 03 | SEP 22<br>OCT 04<br>OCT 16 | OCT 03<br>OCT 16<br>NOV 02 | OCT 13<br>OCT 27<br>NOV 18 | 163<br>191<br>229          | 140<br>166<br>199 | 117<br>141<br>169 | 43<br>35<br>26                    |  |
| ROCHESTER                 | 36<br>32<br>28                | MAY 03<br>APR 16<br>APR 07 | MAY 17<br>MAY 04<br>APR 23 | JUN 01<br>MAY 22<br>MAY 08 | SEP 13<br>SEP 24<br>OCT 09 | SEP 26<br>OCT 09<br>OCT 21 | OCT 09<br>OCT 23<br>NOV 03 | 150<br>183<br>201          | 131<br>157<br>181 | 111<br>131<br>161 | 47<br>39<br>30                    |  |
| ROCKPORT 1 ESE            | 36<br>32<br>28                | APR 15<br>APR 07<br>MAR 24 | APR 30<br>APR 19<br>APR 05 | MAY 15<br>MAY 01<br>APR 17 | OCT 03<br>OCT 14<br>OCT 27 | OCT 15<br>OCT 26<br>NOV 12 | OCT 27<br>NOV 07<br>NOV 27 | 185<br>207<br>242          | 167<br>189<br>220 | 148<br>171<br>198 | 40<br>31<br>23                    |  |
| SPRINGFIELD               | 36<br>32<br>28                | APR 22<br>APR 08<br>MAR 25 | MAY 07<br>APR 19<br>APR 06 | MAY 23<br>APR 29<br>APR 19 | SEP 20<br>SEP 29<br>OCT 11 | OCT 05<br>OCT 15<br>OCT 29 | OCT 20<br>OCT 31<br>NOV 16 | 174<br>196<br>227          | 150<br>179<br>205 | 127<br>161<br>183 | 43<br>35<br>26                    |  |
| STOCKBRIDGE               | 36<br>32<br>28                | MAY 22<br>MAY 08<br>APR 18 | JUN 04<br>MAY 23<br>MAY 04 | JUN 16<br>JUN 06<br>MAY 20 | AUG 28<br>SEP 10<br>SEP 21 | SEP 12<br>SEP 23<br>OCT 06 | SEP 27<br>OCT 03<br>OCT 22 | 118<br>144<br>177          | 100<br>123<br>154 | 82<br>102<br>131  | 53<br>46<br>37                    |  |
| TAUNTON                   | 36<br>32<br>28                | MAY 10<br>APR 27<br>APR 08 | MAY 24<br>MAY 11<br>APR 23 | JUN 08<br>MAY 26<br>MAY 08 | SEP 10<br>SEP 13<br>SEP 29 | SEP 21<br>SEP 29<br>OCT 11 | OCT 03<br>OCT 15<br>OCT 23 | 137<br>159<br>190          | 119<br>139<br>170 | 102<br>120<br>150 | 48<br>40<br>31                    |  |
| TULLY LAKE                | 36<br>32<br>28                | MAY 16<br>MAY 03<br>APR 17 | JUN 02<br>MAY 20<br>MAY 03 | JUN 18<br>JUN 05<br>MAY 19 | AUG 29<br>SEP 09<br>SEP 21 | SEP 13<br>SEP 23<br>OCT 08 | SEP 27<br>OCT 07<br>OCT 24 | 127<br>150<br>183          | 102<br>126<br>157 | 77<br>102<br>131  | 55<br>47<br>38                    |  |
| WORCESTER WSO             | 36<br>32<br>28                | APR 27<br>APR 14<br>APR 02 | MAY 10<br>APR 27<br>APR 14 | MAY 23<br>MAY 11<br>APR 26 | SEP 21<br>OCT 02<br>OCT 11 | OCT 03<br>OCT 17<br>OCT 26 | OCT 16<br>NOV 01<br>NOV 10 | 163<br>193<br>213          | 145<br>172<br>194 | 127<br>151<br>176 | 46<br>39<br>31                    |  |
| MICHIGAN                  |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                   |  |
| ADRIAN 2 NNE              | 36<br>32<br>28                | MAY 02<br>APR 21<br>APR 08 | MAY 16<br>MAY 04<br>APR 22 | MAY 30<br>MAY 18<br>MAY 05 | SEP 15<br>SEP 24<br>OCT 07 | SEP 26<br>OCT 07<br>OCT 21 | OCT 07<br>OCT 20<br>NOV 05 | 149<br>173<br>207          | 132<br>155<br>182 | 116<br>137<br>158 | 48<br>41<br>32                    |  |
| ALLEGAN SEWAGE PLANT      | 36<br>32<br>28                | MAY 06<br>APR 18<br>APR 07 | MAY 23<br>MAY 07<br>APR 22 | JUN 09<br>MAY 26<br>MAY 07 | SEP 14<br>SEP 22<br>OCT 05 | SEP 25<br>OCT 06<br>OCT 22 | OCT 05<br>OCT 21<br>NOV 08 | 142<br>174<br>207          | 124<br>152<br>183 | 106<br>129<br>159 | 48<br>40<br>31                    |  |
| ALMA                      | 36<br>32<br>28                | MAY 07<br>APR 27<br>APR 12 | MAY 21<br>MAY 08<br>APR 26 | JUN 04<br>MAY 20<br>MAY 10 | SEP 14<br>SEP 23<br>OCT 08 | SEP 25<br>OCT 08<br>OCT 23 | OCT 06<br>OCT 23<br>NOV 08 | 144<br>169<br>198          | 127<br>152<br>179 | 109<br>135<br>161 | 48<br>41<br>33                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| MICHIGAN                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ALPENA SEWAGE PLANT       | 36<br>32<br>28                | MAY 07<br>APR 26<br>APR 07 | MAY 21<br>MAY 09<br>APR 20 | JUN 04<br>MAY 23<br>MAY 02 | SEP 15<br>SEP 26<br>OCT 11 | SEP 28<br>OCT 13<br>OCT 28 | OCT 11<br>OCT 29<br>NOV 15 | 150<br>179<br>209       | 129<br>156<br>191 | 108<br>133<br>173 | 50<br>42<br>34                    |  |
| ANN ARBOR UNIV OF MICH    | 36<br>32<br>28                | APR 23<br>APR 12<br>MAR 31 | MAY 10<br>APR 28<br>APR 14 | MAY 26<br>MAY 14<br>APR 28 | SEP 19<br>OCT 05<br>OCT 16 | OCT 06<br>OCT 20<br>OCT 30 | OCT 23<br>NOV 04<br>NOV 13 | 172<br>197<br>218       | 149<br>175<br>198 | 125<br>153<br>178 | 43<br>37<br>28                    |  |
| BAD AXE                   | 36<br>32<br>28                | MAY 13<br>APR 29<br>APR 15 | MAY 29<br>MAY 13<br>MAY 02 | JUN 14<br>MAY 27<br>MAY 19 | SEP 07<br>SEP 16<br>OCT 01 | SEP 22<br>OCT 06<br>OCT 20 | OCT 06<br>OCT 26<br>NOV 07 | 136<br>170<br>197       | 115<br>145<br>170 | 94<br>120<br>143  | 50<br>42<br>34                    |  |
| BALDWIN                   | 36<br>32<br>28                | MAY 21<br>MAY 13<br>APR 29 | JUN 12<br>MAY 29<br>MAY 13 | JUL 05<br>JUN 14<br>MAY 27 | AUG 12<br>SEP 05<br>SEP 17 | SEP 01<br>SEP 18<br>SEP 30 | SEP 21<br>OCT 01<br>OCT 13 | 112<br>131<br>155       | 80<br>111<br>139  | 47<br>91<br>124   | 55<br>48<br>40                    |  |
| BATTLE CREEK              | 36<br>32<br>28                | MAY 07<br>APR 21<br>APR 09 | MAY 21<br>MAY 06<br>APR 24 | JUN 04<br>MAY 20<br>MAY 09 | SEP 14<br>SEP 21<br>OCT 06 | SEP 25<br>OCT 08<br>OCT 22 | OCT 06<br>OCT 24<br>NOV 08 | 139<br>173<br>203       | 126<br>154<br>180 | 113<br>136<br>158 | 47<br>40<br>31                    |  |
| BEECHWOOD 7 WNW           | 36<br>32<br>28                | JUN 01<br>MAY 18<br>APR 30 | JUN 19<br>JUN 05<br>MAY 17 | JUL 08<br>JUN 23<br>JUN 04 | AUG 11<br>SEP 02<br>SEP 11 | AUG 30<br>SEP 17<br>SEP 26 | SEP 18<br>OCT 02<br>OCT 10 | 99<br>121<br>155        | 71<br>103<br>131  | 42<br>85<br>106   | 59<br>53<br>46                    |  |
| BENTON HARBOR AIRPORT     | 36<br>32<br>28                | MAY 02<br>APR 22<br>APR 04 | MAY 16<br>MAY 05<br>APR 17 | MAY 30<br>MAY 18<br>APR 29 | SEP 14<br>SEP 25<br>OCT 13 | OCT 01<br>OCT 15<br>OCT 31 | OCT 18<br>NOV 03<br>NOV 17 | 156<br>184<br>215       | 137<br>162<br>196 | 118<br>139<br>178 | 44<br>36<br>27                    |  |
| BERGLAND DAM              | 36<br>32<br>28                | MAY 31<br>MAY 18<br>MAY 06 | JUN 23<br>JUN 07<br>MAY 18 | JUL 15<br>JUN 26<br>MAY 29 | AUG 08<br>AUG 31<br>SEP 09 | AUG 26<br>SEP 15<br>SEP 25 | SEP 13<br>SEP 29<br>OCT 11 | 96<br>120<br>151        | 64<br>99<br>130   | 32<br>79<br>108   | 62<br>55<br>47                    |  |
| BIG RAPIDS WATERWORKS     | 36<br>32<br>28                | MAY 16<br>MAY 07<br>APR 19 | MAY 31<br>MAY 21<br>MAY 04 | JUN 15<br>JUN 03<br>MAY 18 | AUG 29<br>SEP 12<br>SEP 23 | SEP 13<br>SEP 26<br>OCT 08 | SEP 28<br>OCT 09<br>OCT 24 | 125<br>145<br>176       | 104<br>128<br>157 | 83<br>110<br>138  | 53<br>46<br>38                    |  |
| CADILLAC                  | 36<br>32<br>28                | MAY 23<br>MAY 16<br>APR 30 | JUN 20<br>JUN 04<br>MAY 18 | JUL 19<br>JUN 23<br>JUN 05 | AUG 03<br>AUG 21<br>SEP 09 | AUG 27<br>SEP 13<br>OCT 01 | SEP 19<br>OCT 05<br>OCT 23 | 109<br>133<br>166       | 67<br>100<br>136  | 24<br>68<br>106   | 57<br>50<br>41                    |  |
| CARO                      | 36<br>32<br>28                | MAY 16<br>MAY 10<br>APR 22 | JUN 09<br>MAY 24<br>MAY 07 | JUL 02<br>JUN 07<br>MAY 23 | AUG 23<br>SEP 11<br>SEP 23 | SEP 09<br>SEP 24<br>OCT 07 | SEP 26<br>OCT 06<br>OCT 22 | 118<br>142<br>173       | 92<br>122<br>152  | 65<br>102<br>131  | 51<br>44<br>35                    |  |
| CHAMPION VAN RIPER PK     | 36<br>32<br>28                | JUN 19<br>MAY 26<br>MAY 17 | JUL 11<br>JUN 19<br>JUN 05 | AUG 02<br>AUG 13<br>SEP 04 | AUG 02<br>AUG 13<br>SEP 16 | AUG 14<br>AUG 30<br>SEP 17 | AUG 26<br>SEP 17<br>SEP 28 | 60<br>102<br>122        | 33<br>72<br>102   | 6<br>41<br>83     | 64<br>57<br>50                    |  |
| CHARLOTTE                 | 36<br>32<br>28                | MAY 11<br>APR 29<br>APR 20 | MAY 29<br>MAY 17<br>MAY 05 | JUN 16<br>JUN 03<br>MAY 20 | AUG 22<br>SEP 14<br>SEP 22 | SEP 11<br>SEP 26<br>OCT 11 | SEP 30<br>OCT 08<br>OCT 29 | 132<br>152<br>183       | 104<br>132<br>158 | 76<br>112<br>133  | 50<br>43<br>35                    |  |
| CHATHAM EXP FARM          | 36<br>32<br>28                | JUN 06<br>MAY 23<br>MAY 05 | JUN 26<br>JUN 13<br>MAY 21 | JUL 16<br>JUL 04<br>JUN 05 | AUG 07<br>AUG 27<br>SEP 11 | AUG 27<br>SEP 14<br>SEP 30 | SEP 17<br>OCT 01<br>OCT 19 | 95<br>122<br>156        | 62<br>92<br>132   | 28<br>62<br>107   | 59<br>51<br>42                    |  |
| CHEBOYGAN RR LIGHT STA    | 36<br>32<br>28                | MAY 13<br>MAY 02<br>APR 16 | MAY 27<br>MAY 16<br>APR 28 | JUN 11<br>MAY 30<br>MAY 11 | SEP 15<br>SEP 25<br>OCT 08 | SEP 27<br>OCT 13<br>OCT 26 | OCT 10<br>OCT 30<br>NOV 13 | 139<br>173<br>202       | 122<br>149<br>180 | 105<br>124<br>158 | 52<br>44<br>36                    |  |
| COLDWATER STATE SCHOOL    | 36<br>32<br>28                | MAY 04<br>APR 22<br>APR 13 | MAY 20<br>MAY 06<br>APR 26 | JUN 04<br>MAY 20<br>MAY 09 | SEP 10<br>SEP 21<br>OCT 05 | SEP 24<br>OCT 04<br>OCT 20 | OCT 07<br>OCT 16<br>NOV 03 | 143<br>167<br>193       | 126<br>150<br>176 | 110<br>133<br>159 | 48<br>40<br>32                    |  |
| DUNBAR FOREST EXP STA     | 36<br>32<br>28                | MAY 28<br>MAY 16<br>APR 28 | JUN 10<br>MAY 27<br>MAY 11 | JUN 23<br>JUN 08<br>MAY 25 | AUG 26<br>SEP 15<br>SEP 29 | SEP 13<br>SEP 29<br>OCT 15 | SEP 30<br>OCT 13<br>OCT 31 | 116<br>141<br>177       | 94<br>124<br>155  | 72<br>106<br>134  | 57<br>49<br>40                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP. THRESHOLD<br>(DEGREES F.) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|---------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|-----|-----|-----------------------------------|--|
|                           |                                 | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |     |     |                                   |  |
|                           |                                 | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50  | 90  |                                   |  |
| MICHIGAN                  |                                 |                            |        |        |                            |        |        |                            |     |     |                                   |  |
| EAST JORDAN               | 36                              | MAY 25                     | JUN 15 | JUL 05 | AUG 12                     | SEP 03 | SEP 26 | 112                        | 80  | 48  | 54                                |  |
|                           | 32                              | MAY 16                     | MAY 31 | JUN 15 | SEP 05                     | SEP 22 | OCT 09 | 136                        | 113 | 91  | 46                                |  |
|                           | 28                              | MAY 03                     | MAY 16 | MAY 28 | SEP 21                     | OCT 09 | OCT 26 | 168                        | 145 | 122 | 37                                |  |
| EAST TAWAS                | 36                              | MAY 19                     | JUN 04 | JUN 20 | SEP 01                     | SEP 14 | SEP 28 | 122                        | 101 | 80  | 53                                |  |
|                           | 32                              | MAY 05                     | MAY 20 | JUN 04 | SEP 16                     | SEP 29 | OCT 12 | 152                        | 131 | 111 | 45                                |  |
|                           | 28                              | APR 19                     | MAY 07 | MAY 25 | SEP 30                     | OCT 13 | OCT 26 | 181                        | 158 | 135 | 36                                |  |
| EAU CLAIRE 4 NE           | 36                              | APR 26                     | MAY 13 | MAY 29 | SEP 24                     | OCT 08 | OCT 22 | 170                        | 148 | 126 | 44                                |  |
|                           | 32                              | APR 18                     | MAY 02 | MAY 16 | OCT 05                     | OCT 19 | NOV 02 | 188                        | 170 | 151 | 37                                |  |
|                           | 28                              | APR 05                     | APR 18 | MAY 02 | OCT 21                     | NOV 04 | NOV 17 | 216                        | 199 | 181 | 28                                |  |
| EVART                     | 36                              | MAY 24                     | JUN 11 | JUN 29 | AUG 13                     | SEP 01 | SEP 21 | 109                        | 82  | 55  | 56                                |  |
|                           | 32                              | MAY 12                     | MAY 28 | JUN 14 | AUG 28                     | SEP 13 | SEP 29 | 129                        | 106 | 84  | 49                                |  |
|                           | 28                              | MAY 01                     | MAY 16 | MAY 31 | SEP 16                     | SEP 29 | OCT 12 | 154                        | 135 | 117 | 40                                |  |
| FAYETTE                   | 36                              | MAY 12                     | MAY 25 | JUN 07 | SEP 11                     | SEP 26 | OCT 12 | 144                        | 124 | 104 | 51                                |  |
|                           | 32                              | APR 29                     | MAY 12 | MAY 25 | SEP 22                     | OCT 09 | OCT 25 | 170                        | 149 | 128 | 44                                |  |
|                           | 28                              | APR 18                     | MAY 03 | MAY 18 | OCT 11                     | OCT 27 | NOV 12 | 199                        | 177 | 155 | 36                                |  |
| GAYLORD CON DEP           | 36                              | MAY 22                     | JUN 11 | JUN 30 | AUG 17                     | SEP 04 | SEP 23 | 115                        | 85  | 54  | 55                                |  |
|                           | 32                              | MAY 10                     | MAY 28 | JUN 15 | AUG 28                     | SEP 18 | OCT 09 | 142                        | 112 | 82  | 49                                |  |
|                           | 28                              | APR 29                     | MAY 14 | MAY 28 | SEP 20                     | OCT 08 | OCT 26 | 170                        | 146 | 123 | 40                                |  |
| GLADWIN                   | 36                              | MAY 09                     | JUN 04 | JUN 29 | AUG 31                     | SEP 14 | SEP 28 | 131                        | 101 | 72  | 54                                |  |
|                           | 32                              | MAY 06                     | MAY 20 | JUN 02 | SEP 11                     | SEP 23 | OCT 05 | 142                        | 125 | 108 | 47                                |  |
|                           | 28                              | APR 20                     | MAY 05 | MAY 20 | SEP 24                     | OCT 09 | OCT 24 | 178                        | 156 | 135 | 38                                |  |
| GRAND HAVEN FIRE DEPT     | 36                              | APR 30                     | MAY 13 | MAY 25 | SEP 18                     | OCT 05 | OCT 22 | 168                        | 145 | 121 | 44                                |  |
|                           | 32                              | APR 17                     | APR 29 | MAY 10 | OCT 02                     | OCT 19 | NOV 05 | 192                        | 173 | 153 | 35                                |  |
|                           | 28                              | APR 02                     | APR 14 | APR 27 | OCT 19                     | NOV 05 | NOV 22 | 228                        | 204 | 180 | 26                                |  |
| GRAND MARAIS 1 SSE        | 36                              | JUN 12                     | JUL 02 | JUL 22 | AUG 07                     | AUG 30 | SEP 22 | 96                         | 58  | 20  | 59                                |  |
|                           | 32                              | MAY 24                     | JUN 11 | JUN 30 | AUG 23                     | SEP 22 | OCT 22 | 140                        | 102 | 64  | 51                                |  |
|                           | 28                              | MAY 01                     | MAY 22 | JUN 11 | SEP 12                     | OCT 07 | NOV 01 | 176                        | 138 | 100 | 41                                |  |
| GRAYLING                  | 36                              | MAY 18                     | JUN 10 | JUL 03 | AUG 24                     | SEP 08 | SEP 24 | 116                        | 89  | 62  | 56                                |  |
|                           | 32                              | MAY 12                     | MAY 30 | JUN 17 | SEP 02                     | SEP 19 | OCT 05 | 136                        | 111 | 85  | 49                                |  |
|                           | 28                              | APR 30                     | MAY 15 | MAY 31 | SEP 17                     | OCT 04 | OCT 21 | 165                        | 141 | 117 | 40                                |  |
| GREENVILLE 2 NNE          | 36                              | MAY 08                     | MAY 24 | JUN 09 | SEP 06                     | SEP 19 | OCT 03 | 136                        | 117 | 98  | 49                                |  |
|                           | 32                              | APR 24                     | MAY 13 | MAY 31 | SEP 19                     | OCT 01 | OCT 13 | 162                        | 141 | 120 | 43                                |  |
|                           | 28                              | APR 18                     | APR 30 | MAY 12 | SEP 29                     | OCT 16 | NOV 02 | 187                        | 169 | 150 | 34                                |  |
| GROSSE POINTE FARMS       | 36                              | APR 26                     | MAY 09 | MAY 22 | SEP 24                     | OCT 09 | OCT 24 | 169                        | 152 | 135 | 43                                |  |
|                           | 32                              | APR 13                     | APR 28 | MAY 12 | OCT 09                     | OCT 22 | NOV 04 | 195                        | 177 | 159 | 36                                |  |
|                           | 28                              | MAR 31                     | APR 14 | APR 29 | OCT 18                     | NOV 03 | NOV 20 | 227                        | 202 | 178 | 27                                |  |
| GULL LAKE BIOL. STA.      | 36                              | MAY 06                     | MAY 19 | JUN 01 | SEP 15                     | SEP 27 | OCT 09 | 147                        | 130 | 113 | 47                                |  |
|                           | 32                              | APR 24                     | MAY 07 | MAY 21 | SEP 23                     | OCT 08 | OCT 23 | 170                        | 153 | 136 | 40                                |  |
|                           | 28                              | APR 10                     | APR 24 | MAY 07 | OCT 09                     | OCT 25 | NOV 09 | 201                        | 183 | 166 | 31                                |  |
| HALE LOUD DAM             | 36                              | MAY 19                     | JUN 04 | JUN 20 | SEP 05                     | SEP 16 | SEP 28 | 123                        | 104 | 85  | 56                                |  |
|                           | 32                              | MAY 06                     | MAY 21 | JUN 05 | SEP 16                     | SEP 28 | OCT 10 | 152                        | 130 | 108 | 48                                |  |
|                           | 28                              | APR 30                     | MAY 10 | MAY 20 | SEP 25                     | OCT 10 | OCT 25 | 172                        | 153 | 133 | 39                                |  |
| HARBOR BEACH 3NW          | 36                              | MAY 07                     | MAY 19 | JUN 01 | SEP 17                     | OCT 01 | OCT 14 | 151                        | 134 | 116 | 48                                |  |
|                           | 32                              | APR 23                     | MAY 08 | MAY 24 | OCT 04                     | OCT 17 | OCT 29 | 180                        | 160 | 141 | 41                                |  |
|                           | 28                              | APR 09                     | APR 23 | MAY 07 | SEP 13                     | OCT 29 | NOV 13 | 206                        | 188 | 170 | 31                                |  |
| HART                      | 36                              | MAY 10                     | MAY 28 | JUN 14 | SEP 08                     | SEP 23 | OCT 07 | 141                        | 118 | 95  | 49                                |  |
|                           | 32                              | MAY 01                     | MAY 16 | MAY 31 | SEP 19                     | OCT 06 | OCT 23 | 165                        | 142 | 120 | 42                                |  |
|                           | 28                              | APR 21                     | MAY 05 | MAY 19 | OCT 04                     | OCT 21 | NOV 07 | 193                        | 169 | 145 | 32                                |  |
| HASTINGS                  | 36                              | MAY 11                     | MAY 26 | JUN 11 | SEP 10                     | SEP 21 | OCT 01 | 133                        | 117 | 101 | 49                                |  |
|                           | 32                              | APR 28                     | MAY 14 | MAY 29 | SEP 16                     | SEP 30 | OCT 13 | 158                        | 139 | 119 | 42                                |  |
|                           | 28                              | APR 15                     | APR 29 | MAY 14 | SEP 30                     | OCT 15 | OCT 29 | 188                        | 167 | 147 | 33                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| MICHIGAN                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| HESPERIA 4 E              | 36<br>32<br>28                | MAY 21<br>MAY 09<br>APR 27 | JUN 04<br>MAY 25<br>MAY 09 | JUN 19<br>JUN 10<br>MAY 22 | AUG 22<br>SEP 11<br>SEP 20 | SEP 09<br>SEP 25<br>OCT 06 | SEP 27<br>OCT 09<br>OCT 22 | 117<br>142<br>169       | 96<br>123<br>149  | 75<br>103<br>129  | 53<br>45<br>37                    |  |
| HILLSDALE                 | 36<br>32<br>28                | MAY 08<br>APR 26<br>APR 18 | MAY 26<br>MAY 13<br>MAY 03 | JUN 13<br>MAY 30<br>MAY 17 | SEP 02<br>SEP 14<br>SEP 25 | SEP 17<br>SEP 27<br>OCT 12 | OCT 02<br>OCT 10<br>OCT 29 | 134<br>155<br>182       | 113<br>136<br>162 | 93<br>118<br>142  | 48<br>41<br>33                    |  |
| HOLLAND WJBL              | 36<br>32<br>28                | MAY 07<br>APR 19<br>APR 10 | MAY 23<br>MAY 07<br>APR 24 | JUN 09<br>MAY 25<br>MAY 08 | SEP 05<br>SEP 23<br>OCT 10 | SEP 23<br>OCT 10<br>OCT 27 | OCT 11<br>OCT 28<br>NOV 13 | 147<br>179<br>208       | 122<br>156<br>185 | 97<br>132<br>162  | 46<br>38<br>29                    |  |
| HOUGHTON FAA AP           | 36<br>32<br>28                | MAY 18<br>MAY 04<br>APR 24 | JUN 04<br>MAY 17<br>MAY 06 | JUN 21<br>MAY 31<br>MAY 19 | SEP 07<br>SEP 12<br>SEP 24 | SEP 18<br>SEP 29<br>OCT 14 | SEP 28<br>OCT 15<br>NOV 04 | 125<br>155<br>186       | 105<br>134<br>160 | 85<br>113<br>135  | 56<br>49<br>41                    |  |
| HOUGHTON LAKE 3 NW        | 36<br>32<br>28                | MAY 19<br>MAY 06<br>APR 23 | JUN 16<br>MAY 30<br>MAY 13 | JUL 14<br>JUN 23<br>JUN 02 | AUG 12<br>AUG 26<br>SEP 13 | SEP 04<br>SEP 18<br>OCT 02 | SEP 28<br>OCT 11<br>OCT 20 | 123<br>153<br>170       | 80<br>111<br>141  | 36<br>69<br>113   | 55<br>48<br>39                    |  |
| IRON MOUNTAIN WTR WKS     | 36<br>32<br>28                | MAY 28<br>MAY 15<br>APR 29 | JUN 14<br>MAY 28<br>MAY 13 | JUN 30<br>JUN 11<br>MAY 27 | AUG 18<br>SEP 06<br>SEP 12 | SEP 03<br>SEP 17<br>SEP 27 | SEP 18<br>SEP 29<br>OCT 12 | 104<br>128<br>158       | 80<br>112<br>136  | 56<br>95<br>114   | 57<br>51<br>43                    |  |
| IRONWOOD                  | 36<br>32<br>28                | MAY 23<br>MAY 14<br>APR 24 | JUN 13<br>MAY 29<br>MAY 11 | JUL 04<br>JUN 14<br>MAY 28 | AUG 18<br>AUG 31<br>SEP 18 | SEP 05<br>SEP 18<br>SEP 30 | SEP 22<br>OCT 05<br>OCT 12 | 110<br>136<br>166       | 83<br>111<br>141  | 55<br>85<br>117   | 57<br>51<br>43                    |  |
| ISHPEMING                 | 36<br>32<br>28                | MAY 26<br>MAY 16<br>MAY 07 | JUN 14<br>MAY 31<br>MAY 16 | JUL 04<br>JUN 15<br>MAY 25 | AUG 13<br>SEP 02<br>SEP 19 | SEP 01<br>SEP 19<br>OCT 06 | SEP 21<br>OCT 05<br>OCT 23 | 110<br>135<br>162       | 78<br>110<br>143  | 46<br>86<br>123   | 58<br>51<br>43                    |  |
| JACKSON FAA AIRPORT       | 36<br>32<br>28                | MAY 03<br>APR 23<br>APR 12 | MAY 18<br>MAY 08<br>APR 23 | JUN 03<br>MAY 22<br>MAY 04 | SEP 12<br>SEP 22<br>OCT 05 | SEP 25<br>OCT 07<br>OCT 22 | OCT 08<br>OCT 23<br>NOV 08 | 147<br>171<br>201       | 129<br>152<br>181 | 111<br>133<br>162 | 47<br>39<br>32                    |  |
| KALAMAZOO STATE HOSP      | 36<br>32<br>28                | MAY 01<br>APR 17<br>APR 06 | MAY 14<br>MAY 01<br>APR 17 | MAY 26<br>MAY 15<br>APR 29 | SEP 15<br>SEP 29<br>OCT 12 | OCT 01<br>OCT 14<br>OCT 27 | OCT 17<br>OCT 29<br>NOV 11 | 162<br>185<br>210       | 140<br>165<br>192 | 118<br>145<br>174 | 45<br>37<br>29                    |  |
| LAKE CITY EXP FARM        | 36<br>32<br>28                | MAY 24<br>MAY 10<br>APR 30 | JUN 17<br>MAY 29<br>MAY 15 | JUL 12<br>JUN 17<br>MAY 31 | AUG 14<br>AUG 31<br>SEP 14 | SEP 02<br>SEP 15<br>SEP 30 | SEP 22<br>SEP 30<br>OCT 15 | 112<br>132<br>158       | 76<br>108<br>137  | 41<br>84<br>116   | 57<br>49<br>41                    |  |
| LANSING WSO               | 36<br>32<br>28                | MAY 12<br>APR 25<br>APR 12 | MAY 26<br>MAY 13<br>APR 28 | JUN 08<br>MAY 31<br>MAY 15 | SEP 09<br>SEP 18<br>SEP 30 | SEP 21<br>SEP 30<br>OCT 18 | OCT 03<br>OCT 12<br>NOV 05 | 132<br>160<br>193       | 117<br>140<br>172 | 103<br>119<br>150 | 49<br>41<br>33                    |  |
| LAPEER                    | 36<br>32<br>28                | MAY 12<br>APR 30<br>APR 16 | JUN 01<br>MAY 16<br>MAY 01 | JUN 21<br>JUN 02<br>MAY 16 | SEP 01<br>SEP 05<br>SEP 25 | SEP 15<br>SEP 24<br>OCT 14 | SEP 30<br>OCT 14<br>NOV 01 | 132<br>156<br>186       | 105<br>130<br>165 | 79<br>105<br>143  | 50<br>43<br>34                    |  |
| LUDINGTON 4 SE            | 36<br>32<br>28                | MAY 15<br>APR 30<br>APR 14 | MAY 30<br>MAY 18<br>MAY 03 | JUN 13<br>JUN 06<br>MAY 22 | SEP 07<br>SEP 16<br>OCT 04 | SEP 23<br>OCT 05<br>OCT 24 | OCT 09<br>OCT 24<br>NOV 13 | 138<br>168<br>196       | 116<br>139<br>174 | 94<br>109<br>152  | 50<br>42<br>33                    |  |
| LUPTON 1 S                | 36<br>32<br>28                | JUN 09<br>MAY 20<br>MAY 07 | JUL 04<br>JUN 10<br>MAY 24 | JUL 29<br>JUL 02<br>JUN 09 | AUG 04<br>AUG 17<br>SEP 06 | AUG 19<br>SEP 05<br>SEP 20 | SEP 04<br>SEP 24<br>OCT 04 | 77<br>115<br>139        | 46<br>86<br>119   | 14<br>56<br>99    | 61<br>42<br>44                    |  |
| MANISTEE                  | 36<br>32<br>28                | MAY 05<br>APR 27<br>APR 12 | MAY 26<br>MAY 10<br>APR 26 | JUN 15<br>MAY 24<br>MAY 10 | SEP 14<br>SEP 29<br>OCT 18 | OCT 02<br>OCT 17<br>NOV 04 | OCT 19<br>NOV 04<br>NOV 20 | 156<br>180<br>214       | 129<br>159<br>191 | 101<br>137<br>169 | 47<br>39<br>31                    |  |
| MARQUETTE WSO             | 36<br>32<br>28                | MAY 12<br>APR 30<br>APR 16 | MAY 24<br>MAY 12<br>APR 29 | JUN 05<br>MAY 25<br>MAY 12 | SEP 19<br>OCT 04<br>OCT 17 | OCT 03<br>OCT 19<br>NOV 02 | OCT 18<br>NOV 02<br>NOV 18 | 151<br>176<br>203       | 131<br>159<br>186 | 112<br>142<br>169 | 52<br>44<br>36                    |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| MICHIGAN                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| MIDLAND                   | 36<br>32<br>28                | MAY 05<br>APR 19<br>APR 06 | MAY 20<br>MAY 06<br>APR 21 | JUN 04<br>MAY 24<br>MAY 05 | SEP 13<br>SEP 23<br>OCT 08 | SEP 24<br>OCT 07<br>OCT 25 | OCT 05<br>OCT 21<br>NOV 10 | 144<br>176<br>206       | 126<br>153<br>186 | 108<br>130<br>167 | 47<br>40<br>31                    |  |
| MILFORD GM PROVING GRN    | 36<br>32<br>28                | MAY 04<br>APR 22<br>APR 10 | MAY 16<br>MAY 06<br>APR 23 | MAY 27<br>MAY 21<br>MAY 06 | SEP 15<br>SEP 25<br>OCT 10 | SEP 29<br>OCT 12<br>OCT 25 | OCT 13<br>OCT 28<br>NOV 10 | 156<br>178<br>204       | 136<br>158<br>184 | 115<br>137<br>165 | 47<br>40<br>33                    |  |
| MIO HYDRO PLANT           | 36<br>32<br>28                | MAY 27<br>MAY 14<br>MAY 02 | JUN 12<br>MAY 29<br>MAY 13 | JUN 27<br>JUN 14<br>MAY 25 | AUG 19<br>SEP 09<br>SEP 21 | SEP 05<br>SEP 20<br>OCT 05 | SEP 23<br>OCT 01<br>OCT 20 | 109<br>130<br>161       | 85<br>113<br>144  | 61<br>96<br>128   | 57<br>50<br>40                    |  |
| MONROE SEWAGE PLANT       | 36<br>32<br>28                | APR 24<br>APR 12<br>MAR 29 | MAY 10<br>APR 24<br>APR 12 | MAY 25<br>MAY 06<br>APR 26 | SEP 21<br>OCT 07<br>OCT 16 | OCT 06<br>OCT 21<br>OCT 30 | OCT 21<br>NOV 05<br>NOV 14 | 170<br>197<br>223       | 149<br>180<br>200 | 128<br>162<br>178 | 43<br>36<br>27                    |  |
| MONTAGUE                  | 36<br>32<br>28                | MAY 17<br>MAY 07<br>APR 19 | JUN 02<br>MAY 24<br>MAY 07 | JUN 17<br>JUN 09<br>MAY 26 | AUG 21<br>SEP 09<br>SEP 27 | SEP 10<br>SEP 28<br>OCT 13 | SEP 30<br>OCT 18<br>OCT 28 | 126<br>154<br>184       | 100<br>127<br>157 | 73<br>100<br>131  | 50<br>43<br>33                    |  |
| MT PLEASANT UNIVERSITY    | 36<br>32<br>28                | MAY 10<br>APR 29<br>APR 14 | MAY 23<br>MAY 12<br>APR 29 | JUN 05<br>MAY 24<br>MAY 14 | SEP 10<br>SEP 18<br>OCT 03 | SEP 23<br>OCT 03<br>OCT 19 | OCT 05<br>OCT 18<br>NOV 05 | 137<br>163<br>194       | 122<br>144<br>173 | 107<br>125<br>151 | 50<br>43<br>34                    |  |
| MUSKEGON WSO              | 36<br>32<br>28                | MAY 05<br>APR 22<br>APR 07 | MAY 20<br>MAY 08<br>APR 23 | JUN 04<br>MAY 24<br>MAY 10 | SEP 09<br>SEP 24<br>OCT 11 | SEP 25<br>OCT 11<br>OCT 27 | OCT 10<br>OCT 28<br>NOV 12 | 147<br>178<br>206       | 127<br>156<br>186 | 107<br>134<br>166 | 47<br>39<br>30                    |  |
| NEWBERRY STATE HOSP       | 36<br>32<br>28                | MAY 28<br>MAY 12<br>APR 29 | JUN 14<br>MAY 27<br>MAY 15 | JUN 30<br>JUN 11<br>MAY 30 | AUG 24<br>SEP 08<br>SEP 26 | SEP 09<br>SEP 25<br>OCT 10 | SEP 25<br>OCT 12<br>OCT 25 | 110<br>145<br>172       | 86<br>120<br>148  | 63<br>95<br>124   | 58<br>50<br>41                    |  |
| ONAWAY STATE PARK         | 36<br>32<br>28                | MAY 19<br>MAY 08<br>APR 25 | JUN 04<br>MAY 19<br>MAY 10 | JUN 20<br>MAY 30<br>MAY 24 | SEP 02<br>SEP 10<br>SEP 26 | SEP 15<br>SEP 26<br>OCT 12 | SEP 27<br>OCT 12<br>OCT 28 | 123<br>149<br>177       | 102<br>129<br>155 | 81<br>109<br>132  | 54<br>47<br>38                    |  |
| OWOSO WASTEWATER PL       | 36<br>32<br>28                | MAY 10<br>APR 28<br>APR 14 | MAY 25<br>MAY 11<br>APR 29 | JUN 09<br>MAY 25<br>MAY 14 | SEP 11<br>SEP 19<br>OCT 03 | SEP 21<br>OCT 03<br>OCT 18 | OCT 01<br>OCT 17<br>NOV 02 | 135<br>163<br>187       | 118<br>144<br>171 | 101<br>125<br>154 | 48<br>42<br>33                    |  |
| PELLSTON FAA AIRPORT      | 36<br>32<br>28                | MAY 31<br>MAY 22<br>MAY 04 | JUN 26<br>JUN 09<br>MAY 21 | JUL 22<br>MAY 30<br>JUN 07 | AUG 05<br>AUG 19<br>SEP 11 | AUG 23<br>SEP 07<br>SEP 27 | SEP 09<br>SEP 26<br>OCT 12 | 94<br>116<br>155        | 57<br>89<br>128   | 20<br>62<br>101   | 59<br>51<br>42                    |  |
| PONTIAC STATE HOSPITAL    | 36<br>32<br>28                | MAY 03<br>APR 20<br>APR 09 | MAY 17<br>MAY 03<br>APR 20 | MAY 31<br>MAY 16<br>MAY 01 | SEP 18<br>SEP 29<br>OCT 12 | OCT 01<br>OCT 14<br>OCT 26 | OCT 14<br>OCT 28<br>NOV 08 | 154<br>180<br>205       | 136<br>163<br>188 | 119<br>145<br>171 | 46<br>40<br>31                    |  |
| PORT HURON WASTEWTR PL    | 36<br>32<br>28                | MAY 01<br>APR 15<br>APR 05 | MAY 14<br>MAY 01<br>APR 16 | MAY 27<br>MAY 17<br>APR 27 | SEP 20<br>OCT 05<br>OCT 17 | OCT 05<br>OCT 19<br>NOV 02 | OCT 20<br>NOV 03<br>NOV 19 | 161<br>192<br>219       | 143<br>170<br>199 | 126<br>148<br>179 | 45<br>37<br>28                    |  |
| SAIN T CHARLES            | 36<br>32<br>28                | MAY 07<br>APR 22<br>APR 08 | MAY 19<br>MAY 06<br>APR 21 | MAY 31<br>MAY 21<br>MAY 05 | SEP 11<br>SEP 20<br>OCT 03 | SEP 22<br>OCT 05<br>OCT 18 | OCT 03<br>OCT 20<br>NOV 02 | 141<br>170<br>198       | 125<br>151<br>179 | 109<br>132<br>159 | 47<br>40<br>31                    |  |
| SAIN T JOHNS              | 36<br>32<br>28                | MAY 07<br>APR 27<br>APR 13 | MAY 21<br>MAY 11<br>APR 27 | JUN 04<br>MAY 25<br>MAY 11 | SEP 12<br>SEP 19<br>OCT 03 | SEP 22<br>OCT 06<br>OCT 18 | OCT 02<br>OCT 23<br>NOV 02 | 140<br>170<br>194       | 123<br>148<br>173 | 107<br>125<br>153 | 48<br>42<br>33                    |  |
| SANDUSKY                  | 36<br>32<br>28                | MAY 09<br>APR 29<br>APR 11 | MAY 21<br>MAY 11<br>APR 23 | JUN 03<br>MAY 24<br>MAY 05 | SEP 12<br>SEP 19<br>OCT 07 | SEP 24<br>OCT 06<br>OCT 21 | OCT 06<br>OCT 24<br>NOV 04 | 140<br>167<br>200       | 125<br>147<br>181 | 110<br>128<br>162 | 49<br>42<br>33                    |  |
| SAULT STE MARIE WSO       | 36<br>32<br>28                | MAY 24<br>MAY 11<br>APR 25 | JUN 08<br>MAY 26<br>MAY 11 | JUN 23<br>JUN 10<br>MAY 27 | AUG 29<br>SEP 12<br>SEP 26 | SEP 13<br>SEP 27<br>OCT 12 | SEP 28<br>OCT 13<br>OCT 27 | 119<br>144<br>177       | 96<br>124<br>153  | 73<br>103<br>129  | 57<br>49<br>41                    |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F.) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|--------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                                | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                 |  |
|                           |                                | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                 |  |
| MICHIGAN                  |                                |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| SENEY NATL WLR            | 36<br>32<br>28                 | MAY 25<br>MAY 11<br>APR 26 | JUN 11<br>MAY 26<br>MAY 10 | JUN 28<br>JUN 10<br>MAY 24 | AUG 24<br>SEP 09<br>SEP 25 | SEP 09<br>SEP 26<br>OCT 13 | SEP 25<br>OCT 14<br>OCT 30 | 113<br>145<br>176       | 89<br>123<br>155  | 64<br>100<br>134  | 56<br>49<br>40                  |  |
| SOUTH HAVEN EXP FARM      | 36<br>32<br>28                 | APR 28<br>APR 19<br>APR 04 | MAY 15<br>MAY 03<br>APR 18 | MAY 31<br>MAY 16<br>MAY 02 | SEP 19<br>OCT 02<br>OCT 18 | OCT 04<br>OCT 19<br>NOV 02 | OCT 19<br>NOV 04<br>NOV 17 | 163<br>189<br>222       | 142<br>168<br>197 | 121<br>147<br>173 | 44<br>36<br>27                  |  |
| STAMBAUGH 1 S             | 36<br>32<br>28                 | MAY 30<br>MAY 20<br>MAY 08 | JUN 26<br>JUN 09<br>MAY 23 | JUL 22<br>JUN 30<br>JUN 07 | JUL 31<br>AUG 14<br>SEP 04 | AUG 21<br>SEP 02<br>SEP 18 | SEP 11<br>SEP 22<br>OCT 02 | 91<br>120<br>141        | 55<br>84<br>118   | 20<br>48<br>94    | 61<br>54<br>46                  |  |
| STANDISH 2 S              | 36<br>32<br>28                 | MAY 14<br>MAY 06<br>APR 21 | JUN 02<br>MAY 19<br>MAY 05 | JUN 21<br>JUN 02<br>MAY 20 | SEP 02<br>SEP 06<br>SEP 23 | SEP 15<br>SEP 24<br>OCT 08 | SEP 27<br>OCT 11<br>OCT 23 | 126<br>149<br>175       | 104<br>127<br>155 | 82<br>104<br>135  | 53<br>46<br>37                  |  |
| STEPHENSON 5 W            | 36<br>32<br>28                 | MAY 24<br>MAY 14<br>MAY 01 | JUN 10<br>MAY 30<br>MAY 15 | JUN 27<br>JUN 16<br>MAY 28 | AUG 16<br>SEP 07<br>SEP 16 | SEP 03<br>SEP 19<br>SEP 29 | SEP 21<br>SEP 30<br>OCT 11 | 114<br>130<br>157       | 85<br>111<br>136  | 56<br>91<br>115   | 56<br>50<br>41                  |  |
| THREE RIVERS              | 36<br>32<br>28                 | MAY 05<br>APR 23<br>APR 12 | MAY 19<br>MAY 08<br>APR 28 | JUN 03<br>MAY 22<br>MAY 14 | SEP 08<br>SEP 16<br>SEP 30 | SEP 21<br>OCT 01<br>OCT 16 | OCT 04<br>OCT 17<br>NOV 01 | 143<br>166<br>190       | 124<br>146<br>170 | 104<br>126<br>150 | 46<br>39<br>31                  |  |
| TRAVERSE CITY FAA AP      | 36<br>32<br>28                 | MAY 20<br>MAY 08<br>APR 28 | JUN 06<br>MAY 24<br>MAY 13 | JUN 22<br>JUN 09<br>MAY 27 | SEP 06<br>SEP 17<br>SEP 29 | SEP 22<br>OCT 04<br>OCT 17 | OCT 09<br>OCT 20<br>NOV 03 | 131<br>158<br>181       | 108<br>132<br>155 | 85<br>106<br>131  | 53<br>45<br>36                  |  |
| VANDERBILT TROUT STA      | 36<br>32<br>28                 | JUN 28<br>MAY 31<br>MAY 20 | JUL 17<br>JUN 21<br>JUN 06 | AUG 04<br>JUL 13<br>JUN 23 | JUL 31<br>AUG 02<br>AUG 29 | AUG 13<br>AUG 20<br>SEP 15 | AUG 27<br>SEP 07<br>OCT 01 | 54<br>90<br>122         | 26<br>59<br>100   | 0<br>27<br>78     | 64<br>56<br>46                  |  |
| WATERSHEET                | 36<br>32<br>28                 | JUN 07<br>MAY 24<br>MAY 11 | JUL 02<br>JUN 14<br>MAY 27 | JUL 27<br>JUL 05<br>JUN 12 | AUG 03<br>AUG 12<br>SEP 02 | AUG 21<br>AUG 30<br>SEP 18 | SEP 08<br>SEP 17<br>OCT 04 | 77<br>102<br>135        | 49<br>76<br>114   | 21<br>50<br>93    | 60<br>54<br>46                  |  |
| WEST BRANCH 2 N           | 36<br>32<br>28                 | MAY 14<br>MAY 07<br>APR 25 | JUN 05<br>MAY 22<br>MAY 10 | JUN 26<br>JUN 06<br>MAY 25 | AUG 28<br>SEP 10<br>SEP 22 | SEP 12<br>SEP 26<br>OCT 09 | SEP 27<br>OCT 13<br>OCT 26 | 125<br>151<br>174       | 98<br>126<br>151  | 71<br>102<br>128  | 55<br>48<br>40                  |  |
| WILLIS 5 SSH              | 36<br>32<br>28                 | MAY 05<br>APR 28<br>APR 13 | MAY 21<br>MAY 12<br>APR 26 | JUN 07<br>MAY 25<br>MAY 09 | SEP 01<br>SEP 15<br>SEP 24 | SEP 15<br>SEP 26<br>OCT 09 | SEP 30<br>OCT 06<br>OCT 23 | 136<br>152<br>180       | 116<br>136<br>165 | 96<br>120<br>150  | 49<br>42<br>34                  |  |
| YPSILANTI EAST MICH U     | 36<br>32<br>28                 | APR 28<br>APR 14<br>APR 01 | MAY 12<br>APR 30<br>APR 16 | MAY 27<br>MAY 16<br>MAY 01 | SEP 19<br>OCT 02<br>OCT 13 | OCT 02<br>OCT 17<br>OCT 29 | OCT 15<br>OCT 31<br>NOV 15 | 164<br>190<br>220       | 142<br>169<br>196 | 121<br>148<br>172 | 45<br>37<br>29                  |  |
| MINNESOTA                 |                                |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| ADA                       | 36<br>32<br>28                 | MAY 10<br>MAY 04<br>APR 24 | MAY 26<br>MAY 15<br>MAY 06 | JUN 11<br>MAY 27<br>MAY 19 | AUG 29<br>SEP 11<br>SEP 16 | SEP 14<br>SEP 24<br>OCT 04 | SEP 30<br>OCT 07<br>OCT 21 | 136<br>147<br>169       | 111<br>131<br>149 | 85<br>115<br>129  | 55<br>50<br>43                  |  |
| ALBERT LEA                | 36<br>32<br>28                 | APR 27<br>APR 20<br>APR 06 | MAY 11<br>MAY 04<br>APR 22 | MAY 25<br>MAY 17<br>MAY 08 | SEP 13<br>SEP 25<br>OCT 05 | SEP 27<br>OCT 07<br>OCT 19 | OCT 10<br>OCT 19<br>NOV 02 | 156<br>172<br>202       | 138<br>155<br>179 | 120<br>139<br>156 | 50<br>44<br>37                  |  |
| ALEXANDRIA FAA AIRPORT    | 36<br>32<br>28                 | MAY 05<br>APR 22<br>APR 12 | MAY 17<br>MAY 07<br>APR 27 | MAY 30<br>MAY 22<br>MAY 12 | SEP 10<br>SEP 17<br>SEP 29 | SEP 22<br>SEP 30<br>OCT 13 | OCT 03<br>OCT 14<br>OCT 28 | 144<br>171<br>193       | 126<br>146<br>168 | 109<br>121<br>144 | 54<br>48<br>42                  |  |
| ARGYLE 4 E                | 36<br>32<br>28                 | MAY 15<br>MAY 08<br>APR 28 | MAY 31<br>MAY 21<br>MAY 11 | JUN 16<br>JUN 02<br>MAY 24 | AUG 22<br>SEP 05<br>SEP 13 | SEP 08<br>SEP 20<br>SEP 28 | SEP 25<br>OCT 04<br>OCT 12 | 126<br>143<br>159       | 99<br>121<br>139  | 72<br>100<br>120  | 60<br>54<br>47                  |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| MINNESOTA                 |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ARTICHOKE LAKE            | 36<br>32<br>28                | MAY 07<br>APR 23<br>APR 11 | MAY 17<br>MAY 08<br>APR 27 | MAY 27<br>MAY 24<br>MAY 13 | SEP 06<br>SEP 16<br>SEP 28 | SEP 18<br>SEP 30<br>OCT 11 | OCT 01<br>OCT 15<br>OCT 23 | 141<br>166<br>187       | 123<br>144<br>166 | 105<br>122<br>145 | 53<br>47<br>40                    |  |
| AUSTIN 3 S                | 36<br>32<br>28                | MAY 05<br>APR 24<br>APR 15 | MAY 17<br>MAY 09<br>APR 30 | MAY 29<br>MAY 24<br>MAY 15 | AUG 31<br>SEP 11<br>SEP 23 | SEP 14<br>SEP 24<br>OCT 08 | SEP 29<br>OCT 08<br>OCT 24 | 140<br>159<br>181       | 120<br>138<br>161 | 100<br>117<br>141 | 52<br>46<br>39                    |  |
| BABBITT 2 SE              | 36<br>32<br>28                | MAY 13<br>MAY 10<br>APR 26 | MAY 28<br>MAY 20<br>MAY 09 | JUN 13<br>MAY 31<br>MAY 22 | AUG 31<br>SEP 10<br>SEP 20 | SEP 14<br>SEP 22<br>OCT 04 | SEP 28<br>OCT 04<br>OCT 22 | 129<br>142<br>173       | 108<br>124<br>149 | 87<br>107<br>125  | 57<br>51<br>44                    |  |
| BAUDETTE                  | 36<br>32<br>28                | MAY 22<br>MAY 09<br>APR 29 | JUN 07<br>MAY 22<br>MAY 11 | JUN 23<br>JUN 04<br>MAY 23 | AUG 23<br>SEP 10<br>SEP 15 | SEP 07<br>SEP 20<br>SEP 30 | SEP 23<br>SEP 30<br>OCT 16 | 115<br>137<br>165       | 91<br>120<br>142  | 67<br>103<br>119  | 59<br>53<br>46                    |  |
| BEMIDJI AIRPORT           | 36<br>32<br>28                | MAY 17<br>MAY 08<br>MAY 01 | JUN 01<br>MAY 21<br>MAY 12 | JUN 16<br>JUN 03<br>MAY 24 | AUG 22<br>SEP 10<br>SEP 13 | SEP 07<br>SEP 20<br>SEP 26 | SEP 23<br>SEP 30<br>OCT 09 | 117<br>139<br>157       | 97<br>121<br>136  | 77<br>104<br>115  | 59<br>54<br>47                    |  |
| BIG FALLS                 | 36<br>32<br>28                | MAY 25<br>MAY 15<br>MAY 03 | JUN 11<br>MAY 31<br>MAY 16 | JUN 28<br>JUN 17<br>MAY 28 | AUG 14<br>AUG 28<br>SEP 11 | AUG 30<br>SEP 13<br>SEP 24 | SEP 14<br>SEP 28<br>OCT 08 | 101<br>122<br>149       | 78<br>104<br>131  | 56<br>86<br>113   | 61<br>55<br>47                    |  |
| CAMBRIDGE ST HOSPITAL     | 36<br>32<br>28                | MAY 08<br>APR 26<br>APR 15 | MAY 23<br>MAY 08<br>APR 28 | JUN 06<br>MAY 21<br>MAY 12 | SEP 09<br>SEP 12<br>SEP 23 | SEP 18<br>SEP 25<br>OCT 08 | SEP 28<br>OCT 07<br>OCT 24 | 136<br>155<br>182       | 118<br>139<br>162 | 100<br>123<br>142 | 53<br>48<br>41                    |  |
| CAMPBELL                  | 36<br>32<br>28                | MAY 10<br>APR 29<br>APR 13 | MAY 24<br>MAY 14<br>MAY 01 | JUN 07<br>MAY 30<br>MAY 18 | AUG 29<br>SEP 07<br>SEP 19 | SEP 13<br>SEP 22<br>OCT 04 | SEP 27<br>OCT 08<br>OCT 19 | 134<br>149<br>180       | 111<br>130<br>156 | 89<br>111<br>132  | 56<br>51<br>44                    |  |
| CANBY                     | 36<br>32<br>28                | MAY 05<br>APR 27<br>APR 12 | MAY 17<br>MAY 10<br>APR 28 | MAY 30<br>MAY 23<br>MAY 14 | SEP 08<br>SEP 16<br>SEP 27 | SEP 19<br>SEP 30<br>OCT 11 | SEP 30<br>OCT 15<br>OCT 25 | 143<br>159<br>185       | 124<br>143<br>165 | 105<br>127<br>146 | 51<br>46<br>39                    |  |
| CLOQUET FOR RES CENTER    | 36<br>32<br>28                | MAY 29<br>MAY 17<br>MAY 05 | JUN 13<br>JUN 02<br>MAY 16 | JUN 28<br>JUN 17<br>MAY 27 | AUG 15<br>SEP 03<br>SEP 14 | AUG 30<br>SEP 14<br>SEP 25 | SEP 14<br>SEP 25<br>OCT 07 | 99<br>123<br>151        | 77<br>104<br>132  | 55<br>84<br>113   | 60<br>53<br>45                    |  |
| COLLEGEVILLE ST JOHN U    | 36<br>32<br>28                | MAY 01<br>APR 21<br>APR 11 | MAY 14<br>MAY 05<br>APR 24 | MAY 27<br>MAY 19<br>MAY 07 | SEP 11<br>SEP 22<br>OCT 04 | SEP 22<br>OCT 07<br>OCT 19 | OCT 04<br>OCT 22<br>NOV 03 | 150<br>176<br>195       | 131<br>154<br>177 | 112<br>133<br>159 | 51<br>45<br>39                    |  |
| CROOKSTON NW EXP STA      | 36<br>32<br>28                | MAY 11<br>MAY 06<br>APR 24 | MAY 26<br>MAY 18<br>MAY 09 | JUN 11<br>MAY 29<br>MAY 24 | AUG 30<br>SEP 05<br>SEP 15 | SEP 13<br>SEP 20<br>SEP 30 | SEP 27<br>OCT 04<br>OCT 15 | 131<br>144<br>165       | 108<br>124<br>144 | 86<br>104<br>123  | 56<br>51<br>44                    |  |
| DETROIT LAKES 1 NNE       | 36<br>32<br>28                | MAY 14<br>MAY 08<br>APR 30 | JUN 08<br>MAY 24<br>MAY 13 | JUL 02<br>JUN 10<br>MAY 26 | AUG 14<br>AUG 31<br>SEP 10 | SEP 01<br>SEP 13<br>SEP 24 | SEP 20<br>SEP 26<br>OCT 09 | 120<br>134<br>154       | 85<br>111<br>134  | 50<br>88<br>113   | 59<br>53<br>47                    |  |
| DULUTH WSO                | 36<br>32<br>28                | MAY 17<br>MAY 07<br>APR 23 | JUN 04<br>MAY 21<br>MAY 08 | JUN 22<br>JUN 04<br>MAY 23 | AUG 27<br>SEP 10<br>SEP 18 | SEP 11<br>SEP 21<br>OCT 05 | SEP 26<br>OCT 02<br>OCT 22 | 119<br>141<br>174       | 98<br>122<br>150  | 76<br>104<br>126  | 58<br>51<br>43                    |  |
| FAIRMONT                  | 36<br>32<br>28                | APR 22<br>APR 17<br>APR 03 | MAY 06<br>MAY 01<br>APR 16 | MAY 19<br>MAY 15<br>APR 29 | SEP 18<br>SEP 27<br>OCT 07 | OCT 02<br>OCT 10<br>OCT 22 | OCT 17<br>OCT 24<br>NOV 05 | 171<br>180<br>205       | 149<br>151<br>188 | 127<br>143<br>171 | 49<br>43<br>36                    |  |
| FARIBAULT                 | 36<br>32<br>28                | MAY 04<br>APR 26<br>APR 16 | MAY 18<br>MAY 10<br>APR 28 | JUN 02<br>MAY 24<br>MAY 10 | SEP 08<br>SEP 15<br>OCT 01 | SEP 19<br>OCT 01<br>OCT 13 | SEP 30<br>OCT 17<br>OCT 26 | 141<br>165<br>185       | 123<br>143<br>168 | 105<br>122<br>150 | 51<br>45<br>38                    |  |
| FARMINGTON 3 NW           | 36<br>32<br>28                | APR 28<br>APR 20<br>APR 07 | MAY 11<br>MAY 04<br>APR 21 | MAY 23<br>MAY 19<br>MAY 05 | SEP 12<br>SEP 23<br>SEP 29 | SEP 23<br>OCT 05<br>OCT 14 | OCT 03<br>OCT 16<br>OCT 29 | 150<br>169<br>195       | 134<br>153<br>175 | 118<br>137<br>155 | 50<br>45<br>38                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| MINNESOTA                 |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| FERGUS FALLS              | 36<br>32<br>28                | MAY 09<br>APR 23<br>APR 12 | MAY 22<br>MAY 08<br>APR 28 | JUN 03<br>MAY 22<br>MAY 13 | SEP 08<br>SEP 10<br>SEP 27 | SEP 18<br>SEP 27<br>OCT 10 | SEP 29<br>OCT 13<br>OCT 24 | 134<br>162<br>186       | 119<br>141<br>165 | 103<br>121<br>144 | 54<br>49<br>42                    |  |
| FOSSTON                   | 36<br>32<br>28                | MAY 12<br>MAY 06<br>APR 25 | MAY 27<br>MAY 17<br>MAY 06 | JUN 11<br>MAY 28<br>MAY 18 | AUG 23<br>SEP 07<br>SEP 17 | SEP 11<br>SEP 21<br>OCT 01 | SEP 29<br>OCT 06<br>OCT 15 | 128<br>145<br>166       | 106<br>127<br>147 | 84<br>108<br>128  | 56<br>51<br>44                    |  |
| GRAND MARAIS              | 36<br>32<br>28                | MAY 16<br>MAY 04<br>APR 17 | MAY 29<br>MAY 15<br>MAY 01 | JUN 11<br>MAY 27<br>MAY 14 | SEP 10<br>SEP 17<br>OCT 02 | SEP 21<br>OCT 01<br>OCT 19 | OCT 02<br>OCT 16<br>NOV 06 | 131<br>155<br>195       | 114<br>138<br>171 | 98<br>121<br>147  | 55<br>48<br>39                    |  |
| GRAND MEADOW              | 36<br>32<br>28                | MAY 01<br>APR 21<br>APR 07 | MAY 13<br>MAY 06<br>APR 21 | MAY 25<br>MAY 20<br>MAY 05 | SEP 11<br>SEP 22<br>SEP 29 | SEP 24<br>OCT 06<br>OCT 13 | OCT 06<br>OCT 21<br>OCT 28 | 150<br>173<br>195       | 133<br>153<br>175 | 115<br>132<br>154 | 52<br>46<br>40                    |  |
| GRAND RAPIDS NC SCHOOL    | 36<br>32<br>28                | MAY 22<br>MAY 11<br>APR 30 | JUN 07<br>MAY 26<br>MAY 13 | JUN 22<br>JUN 09<br>MAY 26 | AUG 16<br>SEP 05<br>SEP 11 | SEP 01<br>SEP 16<br>SEP 26 | SEP 17<br>SEP 27<br>OCT 12 | 108<br>129<br>157       | 86<br>113<br>136  | 63<br>97<br>114   | 59<br>52<br>45                    |  |
| GULL LAKE DAM             | 36<br>32<br>28                | MAY 12<br>MAY 01<br>APR 17 | MAY 23<br>MAY 11<br>APR 30 | JUN 04<br>MAY 22<br>MAY 14 | SEP 09<br>SEP 18<br>SEP 25 | SEP 19<br>SEP 27<br>OCT 11 | SEP 28<br>OCT 06<br>OCT 26 | 132<br>155<br>181       | 118<br>138<br>162 | 103<br>121<br>144 | 55<br>49<br>42                    |  |
| HALLOCK                   | 36<br>32<br>28                | MAY 11<br>MAY 01<br>APR 27 | MAY 28<br>MAY 20<br>MAY 11 | JUN 15<br>JUN 09<br>MAY 24 | AUG 27<br>SEP 10<br>SEP 15 | SEP 10<br>SEP 22<br>SEP 30 | SEP 24<br>OCT 03<br>OCT 15 | 129<br>146<br>163       | 104<br>123<br>142 | 80<br>101<br>120  | 58<br>52<br>46                    |  |
| HINCKLEY                  | 36<br>32<br>28                | MAY 18<br>MAY 07<br>APR 22 | JUN 01<br>MAY 21<br>MAY 07 | JUN 15<br>JUN 04<br>MAY 21 | AUG 23<br>SEP 09<br>SEP 15 | SEP 08<br>SEP 19<br>SEP 28 | SEP 23<br>SEP 29<br>OCT 10 | 120<br>135<br>161       | 98<br>120<br>143  | 76<br>105<br>126  | 57<br>50<br>43                    |  |
| INTNL FALLS WSO           | 36<br>32<br>28                | MAY 19<br>MAY 12<br>MAY 05 | JUN 09<br>MAY 26<br>MAY 17 | JUN 30<br>JUN 09<br>MAY 28 | AUG 21<br>SEP 04<br>SEP 14 | SEP 04<br>SEP 15<br>SEP 26 | SEP 17<br>SEP 27<br>OCT 08 | 109<br>129<br>147       | 86<br>112<br>132  | 64<br>94<br>116   | 61<br>55<br>47                    |  |
| ITASCA STATE PARK SCH     | 36<br>32<br>28                | MAY 24<br>MAY 16<br>MAY 06 | JUN 09<br>MAY 29<br>MAY 18 | JUN 25<br>JUN 11<br>MAY 29 | AUG 14<br>SEP 02<br>SEP 10 | SEP 01<br>SEP 15<br>SEP 25 | SEP 20<br>SEP 28<br>OCT 10 | 108<br>128<br>148       | 84<br>109<br>130  | 60<br>89<br>112   | 60<br>55<br>48                    |  |
| JORDAN 1 S                | 36<br>32<br>28                | MAY 08<br>APR 25<br>APR 12 | MAY 21<br>MAY 08<br>APR 28 | JUN 02<br>MAY 21<br>MAY 14 | SEP 05<br>SEP 14<br>SEP 26 | SEP 18<br>SEP 28<br>OCT 11 | SEP 30<br>OCT 13<br>OCT 26 | 137<br>163<br>188       | 119<br>143<br>165 | 101<br>123<br>143 | 51<br>46<br>38                    |  |
| LEECH LAKE DAM            | 36<br>32<br>28                | MAY 20<br>MAY 09<br>APR 26 | MAY 31<br>MAY 20<br>MAY 10 | JUN 10<br>MAY 31<br>MAY 24 | AUG 24<br>SEP 05<br>SEP 15 | SEP 08<br>SEP 18<br>SEP 29 | SEP 23<br>OCT 01<br>OCT 12 | 116<br>137<br>161       | 100<br>120<br>141 | 83<br>103<br>121  | 57<br>51<br>45                    |  |
| LITCHFIELD                | 36<br>32<br>28                | MAY 02<br>APR 25<br>APR 11 | MAY 17<br>MAY 07<br>APR 25 | JUN 01<br>MAY 19<br>MAY 10 | SEP 10<br>SEP 15<br>SEP 26 | SEP 22<br>SEP 30<br>OCT 12 | OCT 03<br>OCT 16<br>OCT 28 | 145<br>166<br>191       | 127<br>145<br>169 | 108<br>125<br>147 | 51<br>46<br>39                    |  |
| LITTLE FALLS 1 N          | 36<br>32<br>28                | MAY 10<br>MAY 02<br>APR 19 | MAY 25<br>MAY 14<br>MAY 04 | JUN 09<br>MAY 27<br>MAY 19 | SEP 05<br>SEP 11<br>SEP 16 | SEP 16<br>SEP 23<br>OCT 01 | SEP 28<br>OCT 05<br>OCT 16 | 132<br>149<br>172       | 114<br>131<br>149 | 95<br>113<br>127  | 55<br>49<br>43                    |  |
| LONG PRAIRIE              | 36<br>32<br>28                | MAY 09<br>MAY 04<br>APR 22 | MAY 28<br>MAY 16<br>MAY 03 | JUN 15<br>MAY 29<br>MAY 15 | AUG 20<br>SEP 10<br>SEP 16 | SEP 09<br>SEP 20<br>SEP 29 | SEP 28<br>SEP 30<br>OCT 13 | 137<br>143<br>169       | 103<br>126<br>148 | 70<br>109<br>128  | 55<br>50<br>43                    |  |
| MADISON SEWAGE PLANT      | 36<br>32<br>28                | MAY 05<br>APR 25<br>APR 13 | MAY 18<br>MAY 09<br>APR 27 | MAY 31<br>MAY 23<br>MAY 12 | SEP 03<br>SEP 12<br>SEP 25 | SEP 17<br>SEP 28<br>OCT 10 | SEP 30<br>OCT 15<br>OCT 24 | 142<br>164<br>183       | 121<br>142<br>164 | 101<br>119<br>146 | 52<br>47<br>40                    |  |
| MAPLE PLAIN               | 36<br>32<br>28                | APR 30<br>APR 22<br>APR 11 | MAY 14<br>MAY 06<br>APR 27 | MAY 28<br>MAY 21<br>MAY 12 | SEP 03<br>SEP 15<br>SEP 28 | SEP 19<br>OCT 02<br>OCT 13 | OCT 04<br>OCT 20<br>OCT 28 | 149<br>171<br>189       | 127<br>149<br>169 | 105<br>126<br>148 | 52<br>46<br>39                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| <b>MINNESOTA</b>          |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| MARSHALL                  | 36                            | MAY 03                  | MAY 13 | MAY 24 | SEP 12                  | SEP 24 | OCT 06 | 150                     | 133 | 116 | 51                                |  |
|                           | 32                            | APR 24                  | MAY 07 | MAY 19 | SEP 24                  | OCT 07 | OCT 20 | 169                     | 153 | 137 | 46                                |  |
|                           | 28                            | APR 08                  | APR 24 | MAY 10 | OCT 01                  | OCT 15 | OCT 29 | 192                     | 173 | 154 | 39                                |  |
| MERDOWLANDS               | 36                            | JUN 03                  | JUN 19 | JUL 05 | AUG 08                  | AUG 26 | SEP 13 | 93                      | 67  | 41  | 61                                |  |
|                           | 32                            | MAY 20                  | JUN 02 | JUN 15 | AUG 22                  | SEP 07 | SEP 23 | 114                     | 96  | 79  | 54                                |  |
|                           | 28                            | MAY 08                  | MAY 20 | JUN 02 | SEP 03                  | SEP 18 | OCT 04 | 140                     | 120 | 101 | 47                                |  |
| MILACA                    | 36                            | MAY 11                  | MAY 25 | JUN 07 | SEP 03                  | SEP 16 | SEP 28 | 132                     | 114 | 95  | 55                                |  |
|                           | 32                            | MAY 02                  | MAY 13 | MAY 25 | SEP 14                  | SEP 24 | OCT 04 | 150                     | 133 | 116 | 49                                |  |
|                           | 28                            | APR 18                  | MAY 02 | MAY 17 | SEP 19                  | OCT 02 | OCT 14 | 174                     | 152 | 129 | 42                                |  |
| MILAN                     | 36                            | MAY 07                  | MAY 21 | JUN 03 | SEP 04                  | SEP 16 | SEP 29 | 138                     | 118 | 98  | 53                                |  |
|                           | 32                            | APR 28                  | MAY 10 | MAY 23 | SEP 13                  | SEP 28 | OCT 13 | 160                     | 140 | 120 | 48                                |  |
|                           | 28                            | APR 17                  | MAY 02 | MAY 17 | SEP 23                  | OCT 08 | OCT 22 | 177                     | 158 | 139 | 42                                |  |
| MONTEVIDEO 1 SH           | 36                            | APR 26                  | MAY 18 | JUN 10 | AUG 26                  | SEP 14 | OCT 02 | 155                     | 118 | 81  | 52                                |  |
|                           | 32                            | APR 24                  | MAY 09 | MAY 23 | SEP 15                  | SEP 29 | OCT 14 | 166                     | 143 | 120 | 47                                |  |
|                           | 28                            | APR 11                  | APR 26 | MAY 12 | SEP 25                  | OCT 12 | OCT 28 | 193                     | 168 | 142 | 40                                |  |
| MOOSE LAKE 1 SSE          | 36                            | MAY 27                  | JUN 14 | JUL 01 | AUG 10                  | AUG 29 | SEP 17 | 99                      | 76  | 52  | 60                                |  |
|                           | 32                            | MAY 17                  | MAY 31 | JUN 14 | SEP 05                  | SEP 17 | SEP 29 | 126                     | 108 | 90  | 53                                |  |
|                           | 28                            | MAY 01                  | MAY 15 | MAY 28 | SEP 12                  | SEP 24 | OCT 07 | 151                     | 132 | 113 | 46                                |  |
| MORA                      | 36                            | MAY 15                  | MAY 29 | JUN 12 | AUG 29                  | SEP 13 | SEP 28 | 127                     | 106 | 85  | 55                                |  |
|                           | 32                            | APR 30                  | MAY 14 | MAY 27 | SEP 10                  | SEP 20 | SEP 30 | 146                     | 129 | 111 | 49                                |  |
|                           | 28                            | APR 19                  | MAY 02 | MAY 15 | SEP 19                  | OCT 04 | OCT 19 | 177                     | 154 | 132 | 42                                |  |
| MORRIS W C SCHOOL         | 36                            | MAY 07                  | MAY 21 | JUN 03 | SEP 09                  | SEP 20 | OCT 02 | 139                     | 122 | 105 | 54                                |  |
|                           | 32                            | APR 24                  | MAY 07 | MAY 19 | SEP 15                  | SEP 29 | OCT 13 | 163                     | 144 | 125 | 49                                |  |
|                           | 28                            | APR 11                  | APR 27 | MAY 13 | SEP 25                  | OCT 10 | OCT 25 | 190                     | 165 | 141 | 42                                |  |
| NEW ULM 2 SE              | 36                            | APR 28                  | MAY 15 | MAY 31 | SEP 08                  | SEP 19 | SEP 30 | 147                     | 127 | 107 | 50                                |  |
|                           | 32                            | APR 21                  | MAY 06 | MAY 21 | SEP 15                  | SEP 29 | OCT 13 | 166                     | 145 | 125 | 44                                |  |
|                           | 28                            | APR 10                  | APR 25 | MAY 11 | SEP 29                  | OCT 12 | OCT 26 | 191                     | 169 | 147 | 37                                |  |
| PARK RAPIDS               | 36                            | MAY 16                  | MAY 31 | JUN 14 | AUG 21                  | SEP 07 | SEP 24 | 124                     | 99  | 73  | 58                                |  |
|                           | 32                            | MAY 06                  | MAY 18 | MAY 30 | SEP 08                  | SEP 18 | SEP 28 | 138                     | 123 | 107 | 52                                |  |
|                           | 28                            | APR 27                  | MAY 09 | MAY 21 | SEP 16                  | SEP 29 | OCT 11 | 156                     | 142 | 128 | 46                                |  |
| PINE RIVER DAM            | 36                            | MAY 20                  | JUN 03 | JUN 18 | AUG 24                  | SEP 08 | SEP 22 | 111                     | 96  | 80  | 58                                |  |
|                           | 32                            | MAY 09                  | MAY 22 | JUN 04 | SEP 08                  | SEP 20 | OCT 01 | 134                     | 120 | 105 | 51                                |  |
|                           | 28                            | APR 25                  | MAY 09 | MAY 23 | SEP 15                  | SEP 29 | OCT 12 | 156                     | 142 | 128 | 44                                |  |
| PIPESTONE                 | 36                            | MAY 05                  | MAY 26 | JUN 16 | AUG 26                  | SEP 13 | OCT 02 | 142                     | 110 | 78  | 55                                |  |
|                           | 32                            | APR 30                  | MAY 14 | MAY 28 | SEP 11                  | SEP 27 | OCT 14 | 158                     | 136 | 113 | 50                                |  |
|                           | 28                            | APR 20                  | MAY 05 | MAY 19 | SEP 20                  | OCT 06 | OCT 21 | 174                     | 153 | 132 | 43                                |  |
| POKEGAMA DAM              | 36                            | MAY 22                  | JUN 07 | JUN 23 | AUG 27                  | SEP 08 | SEP 21 | 111                     | 93  | 75  | 58                                |  |
|                           | 32                            | MAY 10                  | MAY 24 | JUN 06 | SEP 09                  | SEP 20 | OCT 01 | 138                     | 119 | 99  | 52                                |  |
|                           | 28                            | APR 30                  | MAY 12 | MAY 24 | SEP 13                  | SEP 27 | OCT 10 | 156                     | 137 | 117 | 45                                |  |
| RED LAKE FALLS            | 36                            | MAY 12                  | MAY 29 | JUN 14 | AUG 29                  | SEP 12 | SEP 26 | 128                     | 105 | 83  | 56                                |  |
|                           | 32                            | MAY 06                  | MAY 19 | JUN 01 | SEP 07                  | SEP 22 | OCT 06 | 145                     | 125 | 105 | 51                                |  |
|                           | 28                            | APR 21                  | MAY 08 | MAY 24 | SEP 16                  | SEP 30 | OCT 14 | 167                     | 145 | 122 | 44                                |  |
| RED LAKE INDIAN AGENCY    | 36                            | MAY 16                  | MAY 30 | JUN 13 | AUG 29                  | SEP 13 | SEP 27 | 124                     | 105 | 86  | 57                                |  |
|                           | 32                            | MAY 09                  | MAY 21 | JUN 02 | SEP 13                  | SEP 23 | OCT 03 | 139                     | 125 | 110 | 51                                |  |
|                           | 28                            | APR 28                  | MAY 09 | MAY 20 | SEP 19                  | OCT 03 | OCT 18 | 167                     | 147 | 126 | 45                                |  |
| ROSEAU 1 E                | 36                            | MAY 17                  | JUN 08 | JUN 30 | AUG 13                  | SEP 02 | SEP 22 | 122                     | 85  | 48  | 60                                |  |
|                           | 32                            | MAY 09                  | MAY 27 | JUN 13 | AUG 21                  | SEP 10 | SEP 29 | 133                     | 105 | 77  | 55                                |  |
|                           | 28                            | MAY 02                  | MAY 15 | MAY 28 | SEP 11                  | SEP 24 | OCT 07 | 148                     | 131 | 114 | 48                                |  |
| ROSEMOUNT AGRI EXP STA    | 36                            | MAY 06                  | MAY 18 | MAY 30 | SEP 07                  | SEP 19 | OCT 01 | 140                     | 123 | 106 | 52                                |  |
|                           | 32                            | APR 23                  | MAY 09 | MAY 25 | SEP 13                  | SEP 25 | OCT 06 | 159                     | 138 | 117 | 46                                |  |
|                           | 28                            | APR 16                  | APR 30 | MAY 14 | SEP 27                  | OCT 10 | OCT 24 | 181                     | 162 | 144 | 39                                |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| MINNESOTA                 |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ST PETER 2 SW             | 36<br>32<br>28                | APR 30<br>APR 19<br>APR 08 | MAY 13<br>MAY 03<br>APR 23 | MAY 26<br>MAY 18<br>MAY 09 | SEP 10<br>SEP 21<br>OCT 01 | SEP 24<br>OCT 06<br>OCT 14 | OCT 09<br>OCT 22<br>OCT 26 | 152<br>176<br>192       | 134<br>155<br>173 | 116<br>134<br>153 | 51<br>45<br>38                    |  |
| SANDY LAKE DAM LIBBY      | 36<br>32<br>28                | MAY 16<br>MAY 05<br>APR 21 | JUN 02<br>MAY 20<br>MAY 06 | JUN 18<br>JUN 05<br>MAY 21 | AUG 27<br>SEP 06<br>SEP 16 | SEP 09<br>SEP 20<br>SEP 29 | SEP 23<br>OCT 04<br>OCT 12 | 120<br>140<br>163       | 99<br>122<br>145  | 77<br>105<br>127  | 57<br>51<br>44                    |  |
| SPRINGFIELD 1 NW          | 36<br>32<br>28                | MAY 01<br>APR 20<br>APR 12 | MAY 15<br>MAY 05<br>APR 25 | MAY 28<br>MAY 19<br>MAY 09 | SEP 09<br>SEP 17<br>SEP 26 | SEP 19<br>SEP 30<br>OCT 12 | SEP 29<br>OCT 13<br>OCT 29 | 141<br>168<br>193       | 127<br>147<br>169 | 112<br>127<br>146 | 51<br>46<br>38                    |  |
| TRACY                     | 36<br>32<br>28                | MAY 01<br>APR 24<br>APR 10 | MAY 15<br>MAY 06<br>APR 27 | MAY 29<br>MAY 19<br>MAY 13 | SEP 09<br>SEP 17<br>SEP 27 | SEP 21<br>OCT 04<br>OCT 13 | OCT 03<br>OCT 20<br>OCT 28 | 147<br>168<br>190       | 128<br>150<br>169 | 109<br>131<br>147 | 51<br>46<br>39                    |  |
| TWO HARBORS               | 36<br>32<br>28                | MAY 15<br>APR 26<br>APR 10 | JUN 03<br>MAY 18<br>MAY 04 | JUN 22<br>JUN 09<br>MAY 29 | SEP 11<br>SEP 19<br>OCT 02 | SEP 21<br>OCT 01<br>OCT 19 | SEP 30<br>OCT 13<br>NOV 05 | 128<br>163<br>199       | 109<br>135<br>167 | 89<br>107<br>134  | 55<br>47<br>39                    |  |
| VIRGINIA                  | 36<br>32<br>28                | MAY 19<br>MAY 06<br>MAY 01 | JUN 13<br>MAY 30<br>MAY 14 | JUL 08<br>JUN 23<br>MAY 27 | AUG 08<br>AUG 28<br>SEP 13 | AUG 29<br>SEP 13<br>SEP 28 | SEP 20<br>SEP 28<br>OCT 12 | 118<br>139<br>159       | 77<br>105<br>136  | 36<br>71<br>113   | 60<br>53<br>46                    |  |
| HADENA 3 S                | 36<br>32<br>28                | MAY 10<br>MAY 02<br>APR 20 | MAY 23<br>MAY 13<br>MAY 02 | JUN 06<br>MAY 24<br>MAY 15 | SEP 02<br>SEP 13<br>SEP 19 | SEP 15<br>SEP 23<br>OCT 02 | SEP 28<br>OCT 03<br>OCT 16 | 134<br>148<br>171       | 114<br>132<br>152 | 95<br>116<br>134  | 56<br>51<br>44                    |  |
| WARROAD                   | 36<br>32<br>28                | MAY 16<br>MAY 07<br>MAY 03 | MAY 31<br>MAY 22<br>MAY 12 | JUN 16<br>JUN 06<br>MAY 22 | AUG 21<br>SEP 04<br>SEP 13 | SEP 08<br>SEP 18<br>SEP 29 | SEP 26<br>OCT 03<br>OCT 16 | 123<br>141<br>158       | 99<br>119<br>139  | 74<br>97<br>120   | 59<br>53<br>47                    |  |
| WASECA EXP. STATION       | 36<br>32<br>28                | MAY 01<br>APR 22<br>APR 09 | MAY 16<br>MAY 07<br>APR 26 | JUN 01<br>MAY 22<br>MAY 13 | SEP 07<br>SEP 13<br>SEP 24 | SEP 19<br>SEP 29<br>OCT 09 | OCT 01<br>OCT 15<br>OCT 23 | 144<br>165<br>184       | 125<br>144<br>165 | 105<br>124<br>146 | 52<br>47<br>40                    |  |
| WHEATON                   | 36<br>32<br>28                | MAY 05<br>APR 28<br>APR 08 | MAY 19<br>MAY 10<br>APR 25 | JUN 01<br>MAY 23<br>MAY 11 | SEP 11<br>SEP 17<br>SEP 29 | SEP 22<br>SEP 30<br>OCT 13 | OCT 02<br>OCT 12<br>OCT 26 | 141<br>160<br>192       | 125<br>142<br>170 | 109<br>124<br>148 | 52<br>47<br>39                    |  |
| WILLMAR STATE HOSPITAL    | 36<br>32<br>28                | APR 29<br>APR 19<br>APR 11 | MAY 13<br>MAY 04<br>APR 24 | MAY 26<br>MAY 18<br>MAY 08 | SEP 12<br>SEP 19<br>SEP 28 | SEP 22<br>OCT 04<br>OCT 15 | OCT 03<br>OCT 18<br>NOV 02 | 148<br>172<br>195       | 132<br>152<br>173 | 116<br>133<br>151 | 51<br>46<br>39                    |  |
| WINDOM                    | 36<br>32<br>28                | MAY 02<br>APR 22<br>APR 12 | MAY 16<br>MAY 06<br>APR 27 | MAY 30<br>MAY 19<br>MAY 12 | SEP 08<br>SEP 17<br>SEP 27 | SEP 22<br>OCT 02<br>OCT 10 | OCT 06<br>OCT 16<br>OCT 23 | 147<br>168<br>185       | 128<br>148<br>165 | 109<br>129<br>146 | 51<br>46<br>39                    |  |
| WINNEBAGO                 | 36<br>32<br>28                | APR 29<br>APR 20<br>APR 07 | MAY 11<br>MAY 03<br>APR 23 | MAY 24<br>MAY 16<br>MAY 09 | SEP 16<br>SEP 26<br>OCT 06 | SEP 28<br>OCT 08<br>OCT 18 | OCT 10<br>OCT 19<br>OCT 30 | 156<br>172<br>194       | 138<br>157<br>177 | 121<br>141<br>161 | 52<br>46<br>39                    |  |
| WINNIBIGOSHISH DAM        | 36<br>32<br>28                | MAY 16<br>MAY 06<br>APR 27 | MAY 29<br>MAY 19<br>MAY 09 | JUN 10<br>MAY 31<br>MAY 22 | AUG 29<br>SEP 14<br>SEP 18 | SEP 12<br>SEP 23<br>OCT 02 | SEP 25<br>OCT 02<br>OCT 16 | 122<br>141<br>163       | 105<br>127<br>144 | 89<br>112<br>126  | 57<br>51<br>45                    |  |
| WINONA                    | 36<br>32<br>28                | APR 26<br>APR 15<br>APR 09 | MAY 13<br>MAY 01<br>APR 21 | MAY 29<br>MAY 17<br>MAY 04 | SEP 14<br>SEP 22<br>OCT 04 | SEP 25<br>OCT 07<br>OCT 19 | OCT 06<br>OCT 21<br>NOV 02 | 157<br>180<br>199       | 135<br>158<br>179 | 112<br>136<br>160 | 51<br>45<br>39                    |  |
| ZUMBROTA                  | 36<br>32<br>28                | MAY 11<br>APR 27<br>APR 16 | MAY 25<br>MAY 13<br>MAY 02 | JUN 07<br>MAY 29<br>MAY 19 | AUG 29<br>SEP 12<br>SEP 22 | SEP 13<br>SEP 25<br>OCT 06 | SEP 29<br>OCT 08<br>OCT 19 | 130<br>155<br>173       | 111<br>134<br>155 | 91<br>113<br>138  | 53<br>47<br>40                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| MISSISSIPPI               |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ABERDEEN                  | 36<br>32<br>28                | MAR 26<br>MAR 17<br>FEB 19 | APR 08<br>MAR 30<br>MAR 09 | APR 21<br>APR 12<br>MAR 27 | OCT 08<br>OCT 21<br>OCT 27 | OCT 22<br>NOV 01<br>NOV 11 | NOV 04<br>NOV 12<br>NOV 26 | 214<br>231<br>270       | 196<br>215<br>246 | 178<br>199<br>222 | 22<br>15<br>9                     |  |
| BATESVILLE 2 SW           | 36<br>32<br>28                | APR 01<br>MAR 24<br>MAR 08 | APR 12<br>APR 04<br>MAR 23 | APR 24<br>APR 14<br>APR 07 | OCT 03<br>OCT 14<br>OCT 24 | OCT 16<br>OCT 27<br>NOV 07 | OCT 30<br>NOV 08<br>NOV 20 | 204<br>217<br>247       | 186<br>205<br>228 | 168<br>193<br>209 | 28<br>21<br>14                    |  |
| BAY SAINT LOUIS           | 36<br>32<br>28                | FEB 20<br>JAN 24<br>JAN 01 | MAR 10<br>FEB 20<br>FEB 02 | MAR 28<br>MAR 20<br>MAR 07 | OCT 29<br>NOV 10<br>NOV 20 | NOV 18<br>DEC 05<br>DEC 16 | DEC 08<br>DEC 29<br>JAN 10 | 275<br>321<br>359       | 252<br>287<br>313 | 229<br>253<br>277 | 10<br>5<br>2                      |  |
| BAY SPRINGS               | 36<br>32<br>28                | MAR 22<br>MAR 06<br>FEB 06 | APR 02<br>MAR 20<br>MAR 01 | APR 14<br>APR 04<br>MAR 24 | OCT 16<br>OCT 27<br>NOV 04 | OCT 31<br>NOV 10<br>NOV 20 | NOV 15<br>NOV 25<br>DEC 06 | 226<br>254<br>292       | 211<br>234<br>263 | 195<br>214<br>235 | 18<br>12<br>7                     |  |
| BELZONI                   | 36<br>32<br>28                | MAR 20<br>FEB 28<br>FEB 05 | APR 01<br>MAR 16<br>MAR 01 | APR 12<br>APR 01<br>MAR 25 | OCT 10<br>OCT 21<br>OCT 27 | OCT 25<br>NOV 06<br>NOV 15 | NOV 08<br>NOV 22<br>DEC 03 | 223<br>260<br>289       | 206<br>234<br>258 | 190<br>208<br>227 | 21<br>14<br>8                     |  |
| BILOXI CITY               | 36<br>32<br>28                | FEB 16<br>JAN 25<br>JAN 02 | MAR 07<br>FEB 20<br>FEB 04 | MAR 27<br>MAR 18<br>MAR 08 | OCT 31<br>NOV 08<br>NOV 19 | NOV 20<br>NOV 30<br>DEC 19 | DEC 11<br>DEC 22<br>JAN 21 | 283<br>315<br>>365      | 257<br>282<br>315 | 230<br>250<br>275 | 8<br>4<br>2                       |  |
| BOONEVILLE                | 36<br>32<br>28                | MAR 28<br>MAR 20<br>FEB 27 | APR 10<br>APR 01<br>MAR 14 | APR 22<br>APR 14<br>MAR 30 | OCT 08<br>OCT 18<br>OCT 28 | OCT 22<br>OCT 31<br>NOV 11 | NOV 06<br>NOV 14<br>NOV 25 | 214<br>231<br>262       | 195<br>212<br>241 | 176<br>193<br>221 | 27<br>20<br>13                    |  |
| BROOKHAVEN                | 36<br>32<br>28                | MAR 17<br>FEB 27<br>FEB 03 | MAR 30<br>MAR 13<br>FEB 25 | APR 12<br>MAR 27<br>MAR 19 | OCT 17<br>OCT 28<br>NOV 08 | OCT 31<br>NOV 11<br>NOV 27 | NOV 15<br>NOV 25<br>DEC 16 | 232<br>263<br>300       | 214<br>242<br>274 | 196<br>220<br>248 | 15<br>10<br>5                     |  |
| CANTON                    | 36<br>32<br>28                | MAR 23<br>MAR 12<br>FEB 20 | APR 05<br>MAR 25<br>MAR 08 | APR 17<br>APR 07<br>MAR 23 | OCT 10<br>OCT 14<br>OCT 25 | OCT 21<br>OCT 29<br>NOV 10 | NOV 02<br>NOV 13<br>NOV 26 | 216<br>235<br>271       | 199<br>217<br>247 | 182<br>199<br>223 | 22<br>16<br>10                    |  |
| CHARLESTON                | 36<br>32<br>28                | MAR 29<br>MAR 20<br>FEB 22 | APR 09<br>MAR 31<br>MAR 13 | APR 21<br>APR 12<br>MAR 31 | OCT 06<br>OCT 18<br>OCT 28 | OCT 20<br>OCT 30<br>NOV 09 | NOV 03<br>NOV 12<br>NOV 21 | 211<br>228<br>263       | 193<br>212<br>241 | 175<br>197<br>218 | 25<br>19<br>12                    |  |
| CLARKSDALE                | 36<br>32<br>28                | MAR 15<br>FEB 25<br>FEB 11 | MAR 28<br>MAR 15<br>MAR 03 | APR 10<br>APR 03<br>MAR 24 | OCT 22<br>OCT 28<br>NOV 06 | NOV 02<br>NOV 11<br>NOV 25 | NOV 13<br>NOV 24<br>DEC 14 | 234<br>261<br>294       | 218<br>240<br>266 | 202<br>218<br>238 | 21<br>14<br>8                     |  |
| CLEVELAND                 | 36<br>32<br>28                | MAR 25<br>MAR 11<br>FEB 21 | APR 05<br>MAR 26<br>MAR 12 | APR 17<br>APR 10<br>MAR 31 | OCT 13<br>OCT 22<br>OCT 30 | OCT 26<br>NOV 02<br>NOV 13 | NOV 08<br>NOV 14<br>NOV 28 | 221<br>241<br>273       | 203<br>221<br>245 | 184<br>200<br>218 | 22<br>16<br>9                     |  |
| COLLINS                   | 36<br>32<br>28                | MAR 22<br>MAR 07<br>FEB 23 | APR 06<br>MAR 25<br>MAR 10 | APR 22<br>APR 11<br>MAR 24 | OCT 14<br>OCT 23<br>OCT 29 | OCT 27<br>NOV 05<br>NOV 15 | NOV 09<br>NOV 18<br>DEC 01 | 223<br>246<br>272       | 203<br>224<br>249 | 182<br>203<br>226 | 19<br>13<br>8                     |  |
| COLUMBIA                  | 36<br>32<br>28                | MAR 14<br>MAR 03<br>FEB 04 | MAR 28<br>MAR 19<br>FEB 27 | APR 11<br>APR 03<br>MAR 23 | OCT 13<br>OCT 22<br>OCT 31 | OCT 28<br>NOV 06<br>NOV 17 | NOV 12<br>NOV 21<br>DEC 04 | 233<br>251<br>290       | 213<br>232<br>262 | 194<br>212<br>234 | 16<br>11<br>6                     |  |
| COLUMBUS                  | 36<br>32<br>28                | MAR 26<br>MAR 11<br>FEB 20 | APR 08<br>MAR 27<br>MAR 09 | APR 21<br>APR 11<br>MAR 26 | OCT 07<br>OCT 15<br>OCT 29 | OCT 20<br>OCT 29<br>NOV 10 | NOV 02<br>NOV 11<br>NOV 22 | 212<br>236<br>267       | 194<br>215<br>245 | 176<br>194<br>223 | 24<br>18<br>11                    |  |
| CORINTH 5 WSW             | 36<br>32<br>28                | MAR 31<br>MAR 22<br>MAR 01 | APR 14<br>APR 03<br>MAR 18 | APR 28<br>APR 16<br>APR 04 | OCT 03<br>OCT 12<br>OCT 27 | OCT 17<br>OCT 26<br>NOV 08 | OCT 30<br>NOV 10<br>NOV 21 | 207<br>223<br>255       | 185<br>205<br>235 | 163<br>188<br>215 | 27<br>20<br>13                    |  |
| EUPORA 1 E                | 36<br>32<br>28                | MAR 29<br>MAR 21<br>MAR 09 | APR 12<br>APR 03<br>MAR 21 | APR 26<br>APR 15<br>APR 02 | OCT 06<br>OCT 13<br>OCT 25 | OCT 18<br>OCT 27<br>NOV 07 | OCT 31<br>NOV 09<br>NOV 20 | 204<br>224<br>245       | 188<br>206<br>230 | 173<br>189<br>215 | 24<br>18<br>11                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| MISSISSIPPI               |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| FOREST 3 S                | 36<br>32<br>28                | MAR 28<br>MAR 12<br>FEB 24 | APR 11<br>APR 27<br>MAR 14 | APR 26<br>APR 12<br>APR 02 | OCT 07<br>OCT 19<br>OCT 27 | OCT 20<br>NOV 01<br>NOV 14 | NOV 02<br>NOV 15<br>DEC 02 | 210<br>238<br>267       | 191<br>218<br>244 | 172<br>198<br>220 | 22<br>16<br>10                    |  |
| GREENVILLE                | 36<br>32<br>28                | MAR 16<br>MAR 02<br>FEB 11 | MAR 31<br>MAR 18<br>MAR 04 | APR 16<br>APR 02<br>MAR 24 | OCT 20<br>OCT 27<br>NOV 04 | NOV 01<br>NOV 12<br>NOV 23 | NOV 12<br>NOV 28<br>DEC 11 | 233<br>261<br>290       | 213<br>238<br>263 | 193<br>215<br>236 | 20<br>13<br>8                     |  |
| GREENWOOD FAA AP          | 36<br>32<br>28                | MAR 18<br>MAR 02<br>FEB 07 | MAR 31<br>MAR 17<br>FEB 27 | APR 13<br>APR 02<br>MAR 19 | OCT 13<br>OCT 24<br>NOV 01 | OCT 28<br>NOV 09<br>NOV 22 | NOV 11<br>NOV 25<br>DEC 13 | 226<br>257<br>295       | 210<br>236<br>267 | 193<br>215<br>239 | 19<br>13<br>7                     |  |
| GULFPORT NAVAL CENTER     | 36<br>32<br>28                | FEB 21<br>JAN 29<br>JAN 08 | MAR 10<br>FEB 22<br>FEB 08 | MAR 27<br>MAR 17<br>MAR 11 | OCT 27<br>NOV 07<br>NOV 14 | NOV 15<br>NOV 26<br>DEC 09 | DEC 05<br>DEC 16<br>JAN 03 | 271<br>308<br>339       | 250<br>277<br>302 | 228<br>246<br>269 | 9<br>5<br>2                       |  |
| HATTIESBURG               | 36<br>32<br>28                | MAR 19<br>MAR 01<br>FEB 04 | APR 01<br>MAR 17<br>FEB 27 | APR 13<br>APR 03<br>MAR 22 | OCT 14<br>OCT 24<br>NOV 02 | OCT 28<br>NOV 08<br>NOV 23 | NOV 11<br>NOV 23<br>DEC 14 | 231<br>256<br>297       | 210<br>235<br>268 | 189<br>215<br>239 | 17<br>12<br>6                     |  |
| HERNANDO                  | 36<br>32<br>28                | MAR 23<br>MAR 12<br>FEB 22 | APR 04<br>MAR 26<br>MAR 11 | APR 16<br>APR 10<br>MAR 28 | OCT 14<br>OCT 28<br>NOV 03 | OCT 29<br>NOV 07<br>NOV 18 | NOV 13<br>NOV 18<br>DEC 03 | 227<br>243<br>275       | 207<br>225<br>251 | 188<br>207<br>227 | 23<br>17<br>11                    |  |
| HOLLY SPRINGS 4 N         | 36<br>32<br>28                | APR 02<br>MAR 26<br>MAR 08 | APR 16<br>APR 05<br>MAR 23 | APR 30<br>APR 15<br>APR 06 | OCT 02<br>OCT 08<br>OCT 22 | OCT 15<br>OCT 22<br>NOV 04 | OCT 28<br>NOV 05<br>NOV 18 | 200<br>217<br>245       | 182<br>200<br>226 | 164<br>182<br>208 | 28<br>21<br>14                    |  |
| HOUSTON 2 NE              | 36<br>32<br>28                | MAR 30<br>MAR 23<br>MAR 07 | APR 14<br>APR 04<br>MAR 23 | APR 29<br>APR 16<br>APR 07 | OCT 03<br>OCT 10<br>OCT 19 | OCT 15<br>OCT 25<br>NOV 02 | OCT 28<br>NOV 09<br>NOV 16 | 203<br>221<br>244       | 183<br>204<br>223 | 164<br>186<br>203 | 28<br>21<br>15                    |  |
| KIPLING                   | 36<br>32<br>28                | APR 01<br>MAR 21<br>MAR 06 | APR 18<br>APR 03<br>MAR 20 | MAY 05<br>APR 16<br>APR 03 | OCT 04<br>OCT 14<br>OCT 22 | OCT 18<br>OCT 27<br>NOV 06 | OCT 31<br>NOV 08<br>NOV 21 | 201<br>224<br>250       | 182<br>206<br>231 | 162<br>187<br>212 | 23<br>17<br>11                    |  |
| KOSCIUSKO                 | 36<br>32<br>28                | MAR 26<br>MAR 15<br>FEB 19 | APR 07<br>MAR 29<br>MAR 10 | APR 18<br>APR 12<br>MAR 29 | OCT 08<br>OCT 16<br>OCT 28 | OCT 22<br>NOV 01<br>NOV 12 | NOV 04<br>NOV 17<br>NOV 28 | 217<br>237<br>272       | 197<br>216<br>247 | 177<br>195<br>222 | 25<br>18<br>11                    |  |
| LAUREL                    | 36<br>32<br>28                | MAR 17<br>FEB 25<br>JAN 25 | MAR 29<br>MAR 12<br>FEB 21 | APR 10<br>MAR 26<br>MAR 20 | OCT 20<br>OCT 29<br>NOV 04 | NOV 02<br>NOV 13<br>NOV 26 | NOV 15<br>NOV 28<br>DEC 18 | 234<br>266<br>311       | 218<br>245<br>277 | 201<br>225<br>244 | 19<br>12<br>7                     |  |
| LIBERTY 1 W               | 36<br>32<br>28                | MAR 21<br>MAR 06<br>FEB 05 | APR 01<br>MAR 21<br>MAR 01 | APR 13<br>APR 04<br>MAR 25 | OCT 10<br>OCT 23<br>OCT 30 | OCT 26<br>NOV 05<br>NOV 17 | NOV 12<br>NOV 18<br>DEC 05 | 225<br>247<br>291       | 208<br>229<br>261 | 190<br>211<br>230 | 19<br>13<br>8                     |  |
| MERIDIAN WSO              | 36<br>32<br>28                | MAR 23<br>MAR 12<br>FEB 15 | APR 04<br>MAR 27<br>MAR 05 | APR 17<br>APR 12<br>MAR 23 | OCT 10<br>OCT 19<br>OCT 26 | OCT 26<br>NOV 03<br>NOV 16 | NOV 10<br>NOV 17<br>DEC 06 | 223<br>242<br>283       | 203<br>220<br>255 | 184<br>198<br>227 | 21<br>15<br>9                     |  |
| MONTICELLO                | 36<br>32<br>28                | MAR 20<br>MAR 10<br>FEB 10 | APR 04<br>MAR 25<br>MAR 04 | APR 20<br>APR 09<br>MAR 27 | OCT 09<br>OCT 22<br>OCT 28 | OCT 23<br>NOV 04<br>NOV 13 | NOV 06<br>NOV 18<br>NOV 29 | 221<br>245<br>283       | 201<br>224<br>253 | 181<br>203<br>222 | 21<br>16<br>10                    |  |
| MOORHEAD                  | 36<br>32<br>28                | MAR 25<br>MAR 06<br>FEB 13 | APR 07<br>MAR 23<br>MAR 06 | APR 19<br>APR 10<br>MAR 26 | OCT 07<br>OCT 21<br>OCT 26 | OCT 23<br>NOV 04<br>NOV 13 | NOV 08<br>NOV 19<br>DEC 01 | 219<br>248<br>278       | 199<br>225<br>252 | 179<br>203<br>225 | 20<br>14<br>8                     |  |
| NATCHEZ                   | 36<br>32<br>28                | MAR 06<br>FEB 10<br>JAN 26 | MAR 25<br>MAR 10<br>FEB 20 | APR 12<br>APR 07<br>MAR 16 | OCT 21<br>OCT 27<br>NOV 04 | NOV 04<br>NOV 14<br>NOV 30 | NOV 18<br>DEC 02<br>DEC 27 | 250<br>287<br>320       | 224<br>248<br>281 | 198<br>210<br>246 | 14<br>9<br>5                      |  |
| NEWTON EXP STATION        | 36<br>32<br>28                | MAR 27<br>MAR 19<br>FEB 22 | APR 09<br>APR 01<br>MAR 11 | APR 23<br>APR 14<br>MAR 28 | OCT 07<br>OCT 18<br>OCT 25 | OCT 20<br>OCT 31<br>NOV 11 | NOV 02<br>NOV 13<br>NOV 27 | 212<br>232<br>269       | 193<br>212<br>244 | 174<br>193<br>219 | 22<br>16<br>10                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                   |  |
| MISSISSIPPI               |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                   |  |
| PHILADELPHIA 1 WSW        | 36<br>32<br>28                | MAR 26<br>MAR 19<br>FEB 26 | APR 07<br>APR 31<br>MAR 13 | APR 19<br>APR 12<br>MAR 28 | OCT 05<br>OCT 16<br>OCT 24 | OCT 20<br>OCT 30<br>NOV 10 | NOV 04<br>NOV 13<br>NOV 27 | 212<br>231<br>266          | 196<br>212<br>241 | 179<br>194<br>217 | 24<br>17<br>11                    |  |
| PICAYUNE                  | 36<br>32<br>28                | MAR 05<br>FEB 17<br>JAN 18 | MAR 24<br>MAR 08<br>FEB 17 | APR 12<br>MAR 28<br>MAR 18 | OCT 14<br>OCT 26<br>NOV 02 | OCT 31<br>NOV 14<br>NOV 26 | NOV 17<br>DEC 04<br>DEC 20 | 247<br>276<br>319          | 221<br>250<br>282 | 194<br>224<br>244 | 13<br>8<br>4                      |  |
| PICKENS                   | 36<br>32<br>28                | MAR 26<br>MAR 14<br>FEB 16 | APR 08<br>MAR 26<br>MAR 05 | APR 20<br>APR 07<br>MAR 22 | OCT 05<br>OCT 15<br>OCT 23 | OCT 19<br>OCT 27<br>NOV 07 | NOV 01<br>NOV 08<br>NOV 22 | 212<br>229<br>269          | 193<br>214<br>246 | 175<br>200<br>223 | 21<br>15<br>9                     |  |
| POPLARVILLE EXP STA       | 36<br>32<br>28                | MAR 04<br>FEB 11<br>JAN 20 | MAR 20<br>MAR 03<br>FEB 18 | APR 04<br>MAR 23<br>MAR 19 | OCT 25<br>NOV 01<br>NOV 11 | NOV 11<br>NOV 21<br>DEC 11 | NOV 28<br>DEC 11<br>DEC 26 | 257<br>293<br>325          | 236<br>262<br>288 | 214<br>232<br>252 | 11<br>6<br>3                      |  |
| PORT GIBSON               | 36<br>32<br>28                | MAR 23<br>MAR 10<br>FEB 21 | APR 05<br>MAR 24<br>MAR 09 | APR 19<br>APR 07<br>MAR 26 | OCT 09<br>OCT 20<br>OCT 27 | OCT 24<br>NOV 02<br>NOV 13 | NOV 08<br>NOV 14<br>NOV 29 | 219<br>241<br>271          | 201<br>222<br>248 | 183<br>203<br>224 | 23<br>17<br>10                    |  |
| ROSEDALE                  | 36<br>32<br>28                | MAR 21<br>MAR 04<br>FEB 11 | APR 03<br>MAR 20<br>MAR 03 | APR 16<br>APR 06<br>MAR 22 | OCT 16<br>OCT 25<br>OCT 29 | OCT 27<br>NOV 05<br>NOV 15 | NOV 07<br>NOV 16<br>DEC 02 | 220<br>251<br>281          | 206<br>229<br>257 | 192<br>208<br>233 | 23<br>15<br>9                     |  |
| RUSSELL 2 WNW             | 36<br>32<br>28                | MAR 23<br>MAR 10<br>FEB 13 | APR 04<br>MAR 25<br>MAR 06 | APR 16<br>APR 09<br>MAR 26 | OCT 10<br>OCT 23<br>NOV 01 | OCT 26<br>NOV 05<br>NOV 18 | NOV 10<br>NOV 19<br>DEC 05 | 223<br>247<br>283          | 204<br>225<br>256 | 185<br>203<br>229 | 18<br>13<br>8                     |  |
| STATE UNIVERSITY          | 36<br>32<br>28                | MAR 22<br>MAR 02<br>FEB 09 | APR 03<br>MAR 20<br>MAR 04 | APR 15<br>APR 07<br>MAR 26 | OCT 16<br>OCT 28<br>NOV 04 | OCT 29<br>NOV 09<br>NOV 19 | NOV 10<br>NOV 20<br>DEC 05 | 226<br>254<br>288          | 208<br>233<br>260 | 190<br>212<br>232 | 20<br>14<br>8                     |  |
| STONEVILLE EXP STA        | 36<br>32<br>28                | MAR 16<br>FEB 28<br>FEB 10 | APR 01<br>MAR 18<br>MAR 03 | APR 16<br>APR 05<br>MAR 23 | OCT 16<br>OCT 25<br>NOV 02 | OCT 29<br>NOV 08<br>NOV 23 | NOV 11<br>NOV 22<br>DEC 13 | 228<br>260<br>293          | 211<br>234<br>264 | 193<br>208<br>235 | 20<br>13<br>7                     |  |
| TUPELO 2 WNW              | 36<br>32<br>28                | MAR 27<br>MAR 15<br>FEB 20 | APR 16<br>APR 01<br>MAR 17 | MAY 05<br>APR 18<br>APR 11 | OCT 05<br>OCT 11<br>OCT 21 | OCT 19<br>OCT 25<br>NOV 03 | NOV 02<br>NOV 08<br>NOV 16 | 216<br>232<br>259          | 185<br>206<br>230 | 155<br>179<br>202 | 25<br>18<br>12                    |  |
| TYLERTOWN 2 WNW           | 36<br>32<br>28                | MAR 18<br>MAR 05<br>FEB 19 | APR 01<br>MAR 21<br>MAR 06 | APR 16<br>APR 06<br>MAR 21 | OCT 15<br>OCT 23<br>OCT 28 | OCT 28<br>NOV 08<br>NOV 20 | NOV 11<br>NOV 25<br>DEC 14 | 230<br>254<br>291          | 209<br>231<br>259 | 188<br>209<br>227 | 16<br>11<br>6                     |  |
| UNIVERSITY                | 36<br>32<br>28                | APR 04<br>MAR 23<br>MAR 09 | APR 20<br>APR 05<br>MAR 24 | MAY 07<br>APR 19<br>APR 08 | OCT 01<br>OCT 07<br>OCT 20 | OCT 15<br>OCT 22<br>NOV 03 | OCT 30<br>NOV 07<br>NOV 18 | 202<br>222<br>241          | 177<br>199<br>224 | 152<br>176<br>207 | 27<br>20<br>14                    |  |
| VICKSBURG MILITARY PK     | 36<br>32<br>28                | MAR 07<br>FEB 18<br>JAN 25 | MAR 23<br>MAR 13<br>FEB 22 | APR 08<br>APR 04<br>MAR 21 | OCT 22<br>OCT 29<br>NOV 12 | NOV 07<br>NOV 18<br>DEC 01 | NOV 23<br>DEC 08<br>DEC 19 | 251<br>280<br>315          | 228<br>250<br>279 | 206<br>220<br>247 | 14<br>9<br>5                      |  |
| WATER VALLEY 1 NNE        | 36<br>32<br>28                | MAR 29<br>MAR 24<br>MAR 10 | APR 10<br>APR 04<br>MAR 22 | APR 23<br>APR 15<br>APR 03 | OCT 09<br>OCT 18<br>OCT 27 | OCT 21<br>OCT 30<br>NOV 10 | NOV 02<br>NOV 11<br>NOV 24 | 208<br>224<br>249          | 193<br>208<br>232 | 178<br>192<br>215 | 26<br>20<br>13                    |  |
| WIGGINS 4 SE              | 36<br>32<br>28                | MAR 11<br>FEB 23<br>JAN 27 | MAR 26<br>MAR 14<br>FEB 23 | APR 09<br>APR 02<br>MAR 21 | OCT 21<br>OCT 24<br>NOV 05 | NOV 02<br>NOV 12<br>NOV 26 | NOV 14<br>DEC 02<br>DEC 17 | 240<br>274<br>311          | 220<br>242<br>276 | 201<br>211<br>241 | 17<br>11<br>6                     |  |
| WOODVILLE 4 ESE           | 36<br>32<br>28                | MAR 14<br>FEB 20<br>JAN 28 | MAR 29<br>MAR 11<br>FEB 22 | APR 14<br>APR 08<br>MAR 19 | OCT 21<br>OCT 27<br>NOV 05 | NOV 05<br>NOV 14<br>NOV 25 | NOV 19<br>DEC 03<br>DEC 16 | 238<br>272<br>307          | 219<br>248<br>275 | 201<br>223<br>244 | 15<br>9<br>5                      |  |
| YAZOO CITY 5 NNE          | 36<br>32<br>28                | MAR 21<br>MAR 03<br>FEB 03 | APR 02<br>MAR 21<br>FEB 28 | APR 15<br>APR 08<br>MAR 25 | OCT 10<br>OCT 20<br>OCT 26 | OCT 26<br>NOV 06<br>NOV 16 | NOV 10<br>NOV 24<br>DEC 08 | 222<br>256<br>292          | 206<br>230<br>260 | 189<br>204<br>229 | 19<br>13<br>8                     |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F)<br><sup>1</sup> | SPRING (DATE)                         |                            |                            | FALL (DATE)                           |                            |                            | FREEZE FREE PERIOD                    |                   |                   | FREEZE/FROST<br>PROBABILITY <sup>(4)</sup><br><sup>*</sup> |  |
|---------------------------|---|---------------------------------------|----------------------------|----------------------------|---------------------------------------|----------------------------|----------------------------|---------------------------------------|-------------------|-------------------|--|--|
|                           |   | PROBABILITY LEVEL (1)<br><sup>*</sup> |                            |                            | PROBABILITY LEVEL (2)<br><sup>*</sup> |                            |                            | PROBABILITY LEVEL (3)<br><sup>*</sup> |                   |                   |  |  |
|                           |   | 90                                    | 50                         | 10                         | 10                                    | 50                         | 90                         | 10                                    | 50                | 90                |  |  |
| MISSOURI                  |   |                                       |                            |                            |                                       |                            |                            |                                       |                   |                   |  |  |
| ANDERSON                  | 36<br>32<br>28                                | APR 21<br>APR 10<br>MAR 29            | MAY 05<br>APR 26<br>APR 13 | MAY 19<br>MAY 13<br>APR 29 | SEP 26<br>OCT 01<br>OCT 13            | OCT 06<br>OCT 13<br>OCT 25 | OCT 17<br>OCT 25<br>NOV 07 | 170<br>185<br>215                     | 153<br>169<br>194 | 137<br>153<br>174 | 37<br>31<br>24   |  |
| APPLETON CITY             | 36<br>32<br>28                                | APR 14<br>APR 03<br>MAR 27            | APR 28<br>APR 17<br>APR 09 | MAY 13<br>MAY 01<br>APR 22 | SEP 29<br>OCT 09<br>OCT 17            | OCT 12<br>OCT 21<br>NOV 01 | OCT 24<br>NOV 02<br>NOV 16 | 186<br>204<br>228                     | 166<br>186<br>205 | 145<br>168<br>182 | 37<br>30<br>22   |  |
| ARCADIA                   | 36<br>32<br>28                                | APR 20<br>APR 10<br>MAR 25            | MAY 07<br>APR 26<br>APR 09 | MAY 24<br>MAY 12<br>APR 24 | SEP 19<br>SEP 30<br>OCT 06            | OCT 04<br>OCT 12<br>OCT 20 | OCT 18<br>OCT 24<br>NOV 04 | 166<br>190<br>212                     | 149<br>168<br>194 | 132<br>147<br>176 | 37<br>30<br>22   |  |
| BETHANY                   | 36<br>32<br>28                                | APR 28<br>APR 14<br>MAR 29            | MAY 11<br>APR 28<br>APR 12 | MAY 23<br>MAY 13<br>APR 27 | SEP 15<br>SEP 24<br>OCT 04            | SEP 26<br>OCT 07<br>OCT 18 | OCT 07<br>OCT 20<br>NOV 02 | 154<br>180<br>210                     | 138<br>161<br>188 | 122<br>142<br>167 | 43<br>37<br>29   |  |
| BOLIVAR 1NE               | 36<br>32<br>28                                | APR 15<br>APR 06<br>MAR 23            | APR 30<br>APR 20<br>APR 04 | MAY 14<br>MAY 05<br>APR 17 | SEP 30<br>OCT 05<br>OCT 16            | OCT 12<br>OCT 19<br>OCT 30 | OCT 25<br>NOV 02<br>NOV 14 | 184<br>202<br>229                     | 165<br>181<br>208 | 146<br>161<br>188 | 36<br>29<br>22   |  |
| BOONVILLE WATERWORKS      | 36<br>32<br>28                                | APR 04<br>MAR 30<br>MAR 20            | APR 21<br>APR 10<br>APR 01 | MAY 07<br>MAY 05<br>APR 13 | OCT 05<br>OCT 15<br>OCT 23            | OCT 18<br>OCT 30<br>NOV 06 | NOV 01<br>NOV 13<br>NOV 21 | 198<br>222<br>240                     | 180<br>202<br>219 | 162<br>181<br>198 | 38<br>31<br>24   |  |
| BROOKFIELD                | 36<br>32<br>28                                | APR 17<br>APR 04<br>MAR 24            | MAY 02<br>MAY 04<br>APR 06 | MAY 18<br>MAY 04<br>APR 18 | SEP 25<br>OCT 03<br>OCT 16            | OCT 08<br>OCT 18<br>OCT 29 | OCT 21<br>NOV 01<br>NOV 11 | 175<br>201<br>224                     | 158<br>181<br>205 | 141<br>160<br>186 | 39<br>33<br>25   |  |
| BRUNSWICK                 | 36<br>32<br>28                                | APR 13<br>APR 01<br>MAR 23            | APR 25<br>APR 16<br>APR 05 | MAY 07<br>MAY 01<br>APR 17 | SEP 30<br>OCT 08<br>OCT 16            | OCT 13<br>OCT 21<br>NOV 01 | OCT 26<br>NOV 03<br>NOV 17 | 187<br>207<br>232                     | 170<br>187<br>210 | 153<br>167<br>188 | 38<br>32<br>24   |  |
| CAMDENTON                 | 36<br>32<br>28                                | APR 16<br>MAR 27<br>MAR 19            | MAY 01<br>APR 14<br>APR 05 | MAY 16<br>MAY 02<br>APR 21 | SEP 29<br>OCT 06<br>OCT 19            | OCT 11<br>OCT 20<br>NOV 02 | OCT 23<br>NOV 04<br>NOV 17 | 179<br>212<br>233                     | 162<br>189<br>211 | 145<br>166<br>188 | 35<br>28<br>21   |  |
| CANTON LOCK AND DAM 20    | 36<br>32<br>28                                | APR 14<br>APR 03<br>MAR 25            | APR 29<br>APR 15<br>APR 07 | MAY 14<br>MAY 27<br>APR 20 | SEP 22<br>OCT 07<br>OCT 15            | OCT 07<br>OCT 22<br>OCT 30 | OCT 22<br>NOV 05<br>NOV 15 | 179<br>208<br>229                     | 160<br>189<br>206 | 141<br>170<br>183 | 40<br>34<br>26   |  |
| CARROLLTON                | 36<br>32<br>28                                | APR 15<br>APR 06<br>MAR 25            | MAY 02<br>MAY 02<br>APR 07 | MAY 19<br>MAY 02<br>APR 20 | SEP 24<br>OCT 05<br>OCT 17            | OCT 09<br>OCT 18<br>OCT 29 | OCT 23<br>OCT 31<br>NOV 10 | 179<br>198<br>223                     | 159<br>181<br>204 | 139<br>164<br>185 | 39<br>33<br>25   |  |
| CARTHAGE                  | 36<br>32<br>28                                | APR 12<br>MAR 31<br>MAR 21            | APR 28<br>APR 16<br>APR 06 | MAY 15<br>MAY 01<br>APR 22 | SEP 28<br>OCT 10<br>OCT 16            | OCT 10<br>OCT 22<br>NOV 02 | OCT 22<br>NOV 04<br>NOV 18 | 184<br>208<br>233                     | 164<br>189<br>209 | 145<br>170<br>185 | 34<br>28<br>20   |  |
| CARUTHERSVILLE            | 36<br>32<br>28                                | MAR 26<br>MAR 16<br>FEB 24            | APR 10<br>MAR 30<br>MAR 12 | APR 24<br>APR 12<br>MAR 28 | OCT 13<br>OCT 23<br>NOV 01            | OCT 26<br>NOV 05<br>NOV 15 | NOV 07<br>NOV 18<br>NOV 28 | 218<br>237<br>268                     | 198<br>220<br>247 | 178<br>202<br>226 | 27<br>20<br>13   |  |
| CHARLESTON                | 36<br>32<br>28                                | APR 02<br>MAR 23<br>MAR 12            | APR 18<br>APR 04<br>APR 11 | MAY 04<br>MAY 09<br>NOV 08 | OCT 02<br>OCT 10<br>OCT 27            | OCT 15<br>OCT 25<br>NOV 09 | OCT 27<br>NOV 09<br>NOV 20 | 197<br>223<br>244                     | 179<br>203<br>225 | 161<br>182<br>206 | 31<br>24<br>17   |  |
| CHILlicothe Radio KCHI    | 36<br>32<br>28                                | APR 18<br>APR 05<br>MAR 23            | MAY 01<br>MAY 02<br>APR 06 | MAY 14<br>MAY 02<br>APR 20 | SEP 21<br>OCT 02<br>OCT 15            | OCT 04<br>OCT 15<br>OCT 29 | OCT 17<br>OCT 29<br>NOV 12 | 170<br>198<br>225                     | 155<br>179<br>206 | 140<br>160<br>186 | 40<br>34<br>26   |  |
| CLEARWATER DAM            | 36<br>32<br>28                                | APR 17<br>APR 03<br>MAR 22            | MAY 03<br>MAY 04<br>APR 04 | MAY 18<br>MAY 04<br>APR 17 | SEP 29<br>OCT 05<br>OCT 18            | OCT 10<br>OCT 18<br>OCT 31 | OCT 22<br>OCT 31<br>NOV 13 | 179<br>202<br>229                     | 160<br>182<br>209 | 141<br>161<br>190 | 37<br>30<br>23   |  |
| CLINTON 3 NW              | 36<br>32<br>28                                | APR 20<br>APR 05<br>MAR 23            | MAY 01<br>MAY 04<br>APR 07 | MAY 13<br>MAY 04<br>APR 23 | SEP 26<br>OCT 03<br>OCT 16            | OCT 07<br>OCT 17<br>OCT 30 | OCT 18<br>OCT 31<br>NOV 12 | 174<br>198<br>227                     | 158<br>179<br>204 | 142<br>161<br>182 | 41<br>35<br>27   |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| MISSOURI                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| CONECTION                 | 36<br>32<br>28                | APR 17<br>APR 08<br>MAR 28 | APR 30<br>APR 21<br>APR 11 | MAY 13<br>MAY 04<br>APR 24 | SEP 26<br>OCT 04<br>OCT 13 | OCT 09<br>OCT 17<br>OCT 29 | OCT 22<br>OCT 31<br>NOV 14 | 181<br>198<br>220       | 161<br>179<br>200 | 141<br>159<br>181 | 43<br>36<br>29                    |  |
| DONIPHAN                  | 36<br>32<br>28                | APR 17<br>APR 09<br>MAR 24 | MAY 03<br>APR 23<br>APR 06 | MAY 19<br>MAY 08<br>APR 19 | SEP 27<br>OCT 01<br>OCT 13 | OCT 07<br>OCT 13<br>OCT 25 | OCT 17<br>OCT 26<br>NOV 07 | 176<br>192<br>220       | 156<br>172<br>202 | 136<br>153<br>184 | 36<br>30<br>23                    |  |
| EDGERTON                  | 36<br>32<br>28                | APR 25<br>APR 18<br>APR 05 | MAY 10<br>MAY 02<br>APR 19 | MAY 26<br>MAY 17<br>MAY 03 | SEP 13<br>SEP 25<br>OCT 07 | SEP 25<br>OCT 10<br>OCT 19 | OCT 06<br>OCT 24<br>OCT 31 | 159<br>176<br>201       | 137<br>160<br>182 | 115<br>143<br>163 | 43<br>37<br>29                    |  |
| ELDON                     | 36<br>32<br>28                | APR 07<br>MAR 30<br>MAR 21 | APR 21<br>APR 13<br>APR 02 | MAY 05<br>APR 26<br>APR 15 | OCT 02<br>OCT 14<br>OCT 22 | OCT 15<br>OCT 26<br>NOV 05 | OCT 28<br>NOV 08<br>NOV 20 | 194<br>215<br>238       | 176<br>196<br>216 | 157<br>177<br>195 | 35<br>28<br>21                    |  |
| ELSBERRY 1 S              | 36<br>32<br>28                | APR 18<br>APR 06<br>MAR 29 | MAY 04<br>APR 21<br>APR 10 | MAY 21<br>MAY 07<br>APR 21 | SEP 20<br>OCT 01<br>OCT 11 | OCT 05<br>OCT 15<br>OCT 25 | OCT 19<br>OCT 29<br>NOV 08 | 169<br>196<br>214       | 152<br>175<br>197 | 136<br>156<br>181 | 41<br>34<br>26                    |  |
| FARMINGTON                | 36<br>32<br>28                | APR 21<br>APR 07<br>MAR 25 | MAY 06<br>APR 24<br>APR 12 | MAY 20<br>MAY 12<br>MAY 01 | SEP 17<br>SEP 26<br>OCT 03 | OCT 02<br>OCT 10<br>OCT 17 | OCT 16<br>OCT 23<br>OCT 31 | 165<br>191<br>210       | 148<br>168<br>187 | 132<br>144<br>164 | 39<br>32<br>24                    |  |
| FOUNTAIN GROVE WL         | 36<br>32<br>28                | APR 16<br>APR 05<br>MAR 24 | MAY 02<br>APR 19<br>APR 07 | MAY 17<br>MAY 02<br>APR 20 | SEP 17<br>SEP 29<br>OCT 13 | OCT 03<br>OCT 13<br>OCT 26 | OCT 18<br>OCT 27<br>NOV 09 | 175<br>197<br>222       | 153<br>177<br>202 | 131<br>156<br>182 | 40<br>34<br>26                    |  |
| FULTON 4 SW               | 36<br>32<br>28                | APR 16<br>APR 01<br>MAR 25 | MAY 01<br>APR 16<br>APR 07 | MAY 15<br>APR 30<br>APR 20 | SEP 30<br>OCT 08<br>OCT 15 | OCT 12<br>OCT 21<br>OCT 30 | OCT 23<br>NOV 03<br>NOV 14 | 183<br>206<br>227       | 163<br>187<br>205 | 144<br>169<br>183 | 40<br>34<br>26                    |  |
| GRANT CITY                | 36<br>32<br>28                | APR 19<br>APR 09<br>MAR 29 | MAY 01<br>APR 23<br>APR 11 | MAY 14<br>MAY 06<br>APR 24 | SEP 24<br>SEP 30<br>OCT 12 | OCT 08<br>OCT 15<br>OCT 27 | OCT 23<br>OCT 29<br>NOV 11 | 178<br>193<br>218       | 159<br>174<br>198 | 140<br>156<br>179 | 42<br>36<br>29                    |  |
| GREENVILLE 4 NNW          | 36<br>32<br>28                | APR 24<br>APR 17<br>APR 02 | MAY 09<br>MAY 02<br>APR 18 | MAY 23<br>MAY 16<br>MAY 04 | SEP 16<br>SEP 29<br>OCT 05 | SEP 29<br>OCT 10<br>OCT 19 | OCT 11<br>OCT 21<br>NOV 02 | 160<br>180<br>208       | 142<br>161<br>183 | 124<br>141<br>159 | 40<br>33<br>26                    |  |
| HAMILTON 2 W              | 36<br>32<br>28                | APR 19<br>APR 10<br>MAR 30 | MAY 03<br>APR 24<br>APR 14 | MAY 17<br>MAY 08<br>APR 29 | SEP 16<br>OCT 02<br>OCT 09 | OCT 03<br>OCT 16<br>OCT 22 | OCT 20<br>OCT 29<br>NOV 05 | 176<br>195<br>212       | 152<br>174<br>191 | 129<br>153<br>170 | 42<br>35<br>29                    |  |
| HANNIBAL WATERWORKS       | 36<br>32<br>28                | APR 14<br>APR 02<br>MAR 26 | APR 28<br>APR 15<br>APR 06 | MAY 11<br>MAY 29<br>MAY 18 | SEP 29<br>OCT 09<br>OCT 17 | OCT 13<br>OCT 22<br>NOV 01 | OCT 28<br>NOV 04<br>NOV 15 | 188<br>207<br>227       | 168<br>189<br>208 | 147<br>171<br>188 | 39<br>33<br>26                    |  |
| HARRISONVILLE             | 36<br>32<br>28                | APR 11<br>APR 03<br>MAR 25 | APR 25<br>APR 15<br>APR 08 | MAY 10<br>MAY 26<br>MAY 22 | SEP 29<br>OCT 10<br>OCT 20 | OCT 11<br>OCT 23<br>NOV 02 | OCT 22<br>NOV 05<br>NOV 16 | 187<br>207<br>229       | 167<br>190<br>207 | 148<br>174<br>186 | 37<br>31<br>23                    |  |
| JACKSON                   | 36<br>32<br>28                | APR 14<br>MAR 31<br>MAR 20 | APR 29<br>APR 15<br>APR 03 | MAY 15<br>MAY 29<br>MAY 16 | OCT 01<br>OCT 07<br>OCT 17 | OCT 10<br>OCT 20<br>OCT 31 | OCT 19<br>NOV 02<br>NOV 14 | 182<br>205<br>231       | 163<br>188<br>211 | 144<br>170<br>191 | 34<br>27<br>19                    |  |
| JEFFERSON CITY L U        | 36<br>32<br>28                | APR 21<br>APR 08<br>MAR 26 | MAY 07<br>MAY 26<br>APR 26 | MAY 22<br>MAY 13<br>MAY 26 | SEP 20<br>OCT 01<br>OCT 11 | OCT 07<br>OCT 16<br>OCT 27 | OCT 23<br>NOV 01<br>NOV 11 | 175<br>198<br>223       | 152<br>173<br>198 | 130<br>148<br>174 | 40<br>33<br>26                    |  |
| JOPLIN FAA AIRPORT        | 36<br>32<br>28                | APR 07<br>MAR 26<br>MAR 10 | APR 21<br>APR 10<br>MAR 27 | MAY 05<br>MAY 26<br>APR 13 | OCT 04<br>OCT 13<br>OCT 22 | OCT 17<br>OCT 26<br>NOV 07 | OCT 29<br>NOV 08<br>NOV 23 | 196<br>218<br>248       | 178<br>198<br>224 | 160<br>178<br>199 | 32<br>25<br>17                    |  |
| KIRKSVILLE RADIO KIRX     | 36<br>32<br>28                | APR 19<br>APR 08<br>MAR 31 | MAY 05<br>MAY 22<br>APR 11 | MAY 22<br>MAY 06<br>APR 22 | SEP 16<br>SEP 27<br>OCT 10 | OCT 02<br>OCT 11<br>OCT 25 | OCT 17<br>OCT 25<br>NOV 10 | 171<br>193<br>215       | 149<br>171<br>196 | 127<br>150<br>178 | 42<br>36<br>28                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| MISSOURI                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| LAKESIDE                  | 36<br>32<br>28                | APR 16<br>APR 03<br>MAR 24 | MAY 02<br>APR 17<br>APR 05 | MAY 17<br>MAY 01<br>APR 18 | SEP 28<br>OCT 11<br>OCT 18 | OCT 12<br>OCT 24<br>NOV 02 | OCT 25<br>NOV 06<br>NOV 17 | 181<br>208<br>228       | 162<br>189<br>209 | 144<br>170<br>191 | 40<br>33<br>25                    |  |
| LAMAR                     | 36<br>32<br>28                | APR 08<br>APR 02<br>MAR 20 | APR 24<br>APR 15<br>APR 02 | MAY 09<br>APR 29<br>APR 14 | OCT 02<br>OCT 09<br>OCT 19 | OCT 15<br>OCT 23<br>NOV 02 | OCT 28<br>NOV 07<br>NOV 16 | 195<br>210<br>232       | 174<br>190<br>213 | 152<br>170<br>194 | 37<br>30<br>23                    |  |
| LEBANON                   | 36<br>32<br>28                | APR 18<br>APR 08<br>MAR 23 | MAY 01<br>APR 23<br>APR 06 | MAY 15<br>MAY 07<br>APR 20 | SEP 27<br>OCT 07<br>OCT 16 | OCT 10<br>OCT 20<br>NOV 01 | OCT 23<br>NOV 02<br>NOV 18 | 179<br>199<br>231       | 161<br>179<br>209 | 143<br>160<br>186 | 35<br>28<br>21                    |  |
| LEXINGTON                 | 36<br>32<br>28                | APR 07<br>MAR 30<br>MAR 19 | APR 20<br>APR 11<br>MAR 31 | MAY 03<br>APR 24<br>APR 12 | OCT 08<br>OCT 15<br>OCT 24 | OCT 19<br>OCT 29<br>NOV 05 | OCT 31<br>NOV 11<br>NOV 17 | 198<br>220<br>236       | 181<br>199<br>218 | 165<br>179<br>201 | 38<br>31<br>24                    |  |
| LICKING 4 N               | 36<br>32<br>28                | APR 23<br>APR 16<br>MAR 31 | MAY 09<br>APR 30<br>APR 17 | MAY 25<br>MAY 14<br>MAY 04 | SEP 16<br>SEP 30<br>OCT 09 | OCT 03<br>OCT 12<br>OCT 22 | OCT 20<br>OCT 24<br>NOV 04 | 167<br>185<br>208       | 146<br>164<br>187 | 126<br>144<br>166 | 40<br>34<br>26                    |  |
| LOCKWOOD                  | 36<br>32<br>28                | APR 11<br>APR 02<br>MAR 19 | APR 25<br>APR 16<br>APR 02 | MAY 09<br>APR 30<br>APR 17 | OCT 02<br>OCT 13<br>OCT 19 | OCT 15<br>OCT 24<br>NOV 03 | OCT 28<br>NOV 04<br>NOV 17 | 192<br>207<br>235       | 173<br>190<br>214 | 153<br>174<br>192 | 33<br>27<br>19                    |  |
| LOUISIANA STARKS NUR      | 36<br>32<br>28                | APR 22<br>APR 09<br>MAR 28 | MAY 08<br>APR 26<br>APR 12 | MAY 24<br>MAY 14<br>APR 26 | SEP 14<br>SEP 27<br>OCT 06 | SEP 29<br>OCT 10<br>OCT 21 | OCT 14<br>OCT 22<br>NOV 05 | 162<br>184<br>211       | 143<br>166<br>191 | 125<br>147<br>172 | 41<br>34<br>26                    |  |
| MACON                     | 36<br>32<br>28                | APR 17<br>APR 07<br>MAR 28 | APR 30<br>APR 20<br>APR 09 | MAY 12<br>MAY 03<br>APR 22 | SEP 24<br>OCT 05<br>OCT 14 | OCT 08<br>OCT 18<br>OCT 30 | OCT 21<br>OCT 31<br>NOV 14 | 179<br>199<br>223       | 160<br>180<br>203 | 142<br>162<br>182 | 42<br>36<br>29                    |  |
| MARBLE HILL               | 36<br>32<br>28                | APR 23<br>APR 10<br>MAR 28 | MAY 09<br>APR 24<br>APR 12 | MAY 24<br>MAY 08<br>APR 27 | SEP 19<br>SEP 28<br>OCT 08 | OCT 01<br>OCT 10<br>OCT 21 | OCT 12<br>OCT 23<br>NOV 04 | 159<br>188<br>214       | 144<br>168<br>192 | 129<br>149<br>170 | 38<br>31<br>23                    |  |
| MARSHFIELD                | 36<br>32<br>28                | APR 18<br>MAR 30<br>MAR 22 | MAY 01<br>APR 16<br>APR 04 | MAY 13<br>MAY 02<br>APR 17 | OCT 02<br>OCT 08<br>OCT 18 | OCT 14<br>OCT 21<br>NOV 01 | OCT 25<br>NOV 03<br>NOV 15 | 181<br>206<br>230       | 165<br>188<br>210 | 149<br>170<br>190 | 35<br>28<br>21                    |  |
| MARYVILLE 2 E             | 36<br>32<br>28                | APR 20<br>APR 14<br>APR 02 | MAY 05<br>APR 27<br>APR 14 | MAY 21<br>MAY 10<br>APR 26 | SEP 14<br>SEP 26<br>OCT 05 | SEP 30<br>OCT 11<br>OCT 18 | OCT 15<br>OCT 26<br>NOV 01 | 169<br>186<br>205       | 147<br>167<br>186 | 125<br>147<br>167 | 46<br>40<br>33                    |  |
| MEXICO                    | 36<br>32<br>28                | APR 16<br>APR 07<br>MAR 27 | MAY 02<br>MAY 04<br>APR 09 | MAY 19<br>MAY 04<br>APR 22 | SEP 23<br>OCT 02<br>OCT 12 | OCT 09<br>OCT 18<br>OCT 27 | OCT 26<br>NOV 02<br>NOV 11 | 179<br>199<br>221       | 159<br>179<br>201 | 140<br>159<br>180 | 42<br>35<br>28                    |  |
| MOBERLY RADIO KWIX        | 36<br>32<br>28                | APR 13<br>APR 03<br>MAR 26 | APR 29<br>APR 17<br>APR 09 | MAY 15<br>APR 30<br>APR 22 | SEP 27<br>OCT 06<br>OCT 13 | OCT 09<br>OCT 20<br>OCT 29 | OCT 21<br>NOV 02<br>NOV 13 | 181<br>203<br>225       | 162<br>185<br>202 | 144<br>167<br>179 | 39<br>33<br>25                    |  |
| MOUNTAIN GROVE 2 N        | 36<br>32<br>28                | APR 16<br>MAR 30<br>MAR 21 | MAY 01<br>APR 17<br>APR 04 | MAY 15<br>MAY 04<br>APR 19 | SEP 29<br>OCT 10<br>OCT 16 | OCT 13<br>OCT 22<br>NOV 01 | OCT 27<br>NOV 04<br>NOV 18 | 186<br>210<br>235       | 164<br>188<br>211 | 143<br>166<br>187 | 34<br>28<br>20                    |  |
| MOUNT VERNON MU FARM      | 36<br>32<br>28                | APR 17<br>APR 04<br>MAR 25 | MAY 02<br>MAY 09<br>APR 08 | MAY 18<br>MAY 05<br>APR 23 | SEP 26<br>OCT 03<br>OCT 11 | OCT 07<br>OCT 18<br>OCT 27 | OCT 18<br>NOV 02<br>NOV 12 | 174<br>199<br>221       | 157<br>181<br>201 | 140<br>162<br>181 | 36<br>29<br>22                    |  |
| NEOSHO                    | 36<br>32<br>28                | APR 18<br>APR 04<br>MAR 24 | MAY 03<br>APR 21<br>APR 08 | MAY 18<br>MAY 08<br>APR 23 | SEP 27<br>OCT 03<br>OCT 11 | OCT 07<br>OCT 16<br>OCT 27 | OCT 18<br>OCT 28<br>NOV 12 | 174<br>199<br>223       | 157<br>177<br>201 | 140<br>155<br>179 | 34<br>28<br>21                    |  |
| NEVADA SEWAGE PLANT       | 36<br>32<br>28                | APR 16<br>APR 05<br>MAR 27 | MAY 01<br>APR 20<br>APR 12 | MAY 17<br>MAY 04<br>APR 27 | SEP 21<br>OCT 02<br>OCT 13 | OCT 07<br>OCT 16<br>OCT 27 | OCT 23<br>OCT 31<br>NOV 10 | 184<br>200<br>218       | 158<br>179<br>198 | 132<br>157<br>177 | 36<br>30<br>23                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| MISSOURI                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| NEW FLORENCE              | 36                            | APR 12                  | APR 29 | MAY 15 | SEP 28                  | OCT 10 | OCT 22 | 183                     | 164 | 144 | 37                                |  |
|                           | 32                            | APR 04                  | APR 20 | MAY 06 | OCT 09                  | OCT 22 | NOV 03 | 203                     | 184 | 165 | 31                                |  |
|                           | 28                            | MAR 24                  | APR 07 | APR 20 | OCT 17                  | NOV 01 | NOV 16 | 231                     | 208 | 185 | 23                                |  |
| OREGON                    | 36                            | APR 14                  | APR 28 | MAY 12 | SEP 26                  | OCT 09 | OCT 22 | 184                     | 163 | 143 | 41                                |  |
|                           | 32                            | APR 07                  | APR 20 | MAY 03 | OCT 04                  | OCT 18 | NOV 01 | 199                     | 180 | 161 | 35                                |  |
|                           | 28                            | MAR 27                  | APR 10 | APR 24 | OCT 15                  | OCT 28 | NOV 11 | 221                     | 201 | 181 | 28                                |  |
| POPLAR BLUFF R S          | 36                            | APR 08                  | APR 21 | MAY 04 | SEP 28                  | OCT 13 | OCT 28 | 196                     | 174 | 153 | 33                                |  |
|                           | 32                            | MAR 24                  | APR 06 | APR 18 | OCT 11                  | OCT 23 | NOV 04 | 215                     | 199 | 184 | 26                                |  |
|                           | 28                            | MAR 12                  | MAR 25 | APR 07 | OCT 23                  | NOV 05 | NOV 19 | 240                     | 224 | 208 | 18                                |  |
| SAINT CHARLES             | 36                            | APR 11                  | APR 25 | MAY 09 | SEP 30                  | OCT 14 | OCT 28 | 191                     | 172 | 152 | 37                                |  |
|                           | 32                            | MAR 31                  | APR 15 | APR 30 | OCT 08                  | OCT 21 | NOV 03 | 209                     | 189 | 168 | 30                                |  |
|                           | 28                            | MAR 19                  | APR 02 | APR 15 | OCT 17                  | NOV 01 | NOV 16 | 236                     | 213 | 189 | 22                                |  |
| ST. JOSEPH HBAP           | 36                            | APR 16                  | APR 29 | MAY 13 | SEP 18                  | OCT 04 | OCT 20 | 177                     | 157 | 137 | 41                                |  |
|                           | 32                            | APR 03                  | APR 19 | MAY 04 | SEP 30                  | OCT 15 | OCT 31 | 200                     | 179 | 158 | 34                                |  |
|                           | 28                            | MAR 21                  | APR 05 | APR 21 | OCT 11                  | OCT 27 | NOV 12 | 227                     | 204 | 181 | 26                                |  |
| SALEM                     | 36                            | APR 19                  | MAY 04 | MAY 18 | SEP 22                  | OCT 05 | OCT 18 | 172                     | 154 | 136 | 37                                |  |
|                           | 32                            | APR 05                  | APR 22 | MAY 08 | OCT 02                  | OCT 16 | OCT 29 | 195                     | 176 | 157 | 31                                |  |
|                           | 28                            | MAR 25                  | APR 07 | APR 19 | OCT 14                  | OCT 27 | NOV 08 | 219                     | 203 | 186 | 23                                |  |
| SALISBURY                 | 36                            | APR 14                  | APR 28 | MAY 13 | SEP 26                  | OCT 11 | OCT 25 | 184                     | 165 | 146 | 38                                |  |
|                           | 32                            | APR 05                  | APR 17 | APR 30 | OCT 06                  | OCT 19 | OCT 31 | 201                     | 184 | 166 | 32                                |  |
|                           | 28                            | MAR 24                  | APR 06 | APR 18 | OCT 14                  | OCT 30 | NOV 14 | 229                     | 206 | 184 | 24                                |  |
| SAVERTON L AND D 22       | 36                            | APR 08                  | APR 20 | MAY 01 | OCT 02                  | OCT 17 | OCT 31 | 198                     | 179 | 160 | 37                                |  |
|                           | 32                            | MAR 29                  | APR 10 | APR 23 | OCT 10                  | OCT 27 | NOV 12 | 222                     | 199 | 175 | 31                                |  |
|                           | 28                            | MAR 21                  | APR 01 | APR 11 | OCT 22                  | NOV 05 | NOV 19 | 237                     | 218 | 199 | 22                                |  |
| SEDALIA                   | 36                            | APR 18                  | APR 30 | MAY 12 | SEP 29                  | OCT 11 | OCT 23 | 182                     | 164 | 146 | 37                                |  |
|                           | 32                            | MAR 29                  | APR 14 | APR 30 | OCT 08                  | OCT 20 | NOV 01 | 208                     | 188 | 168 | 30                                |  |
|                           | 28                            | MAR 23                  | APR 05 | APR 19 | OCT 17                  | NOV 01 | NOV 17 | 230                     | 209 | 189 | 23                                |  |
| SELIGMAN                  | 36                            | APR 10                  | APR 26 | MAY 13 | SEP 30                  | OCT 12 | OCT 24 | 189                     | 168 | 147 | 33                                |  |
|                           | 32                            | MAR 28                  | APR 14 | MAY 01 | OCT 09                  | OCT 23 | NOV 05 | 216                     | 191 | 165 | 26                                |  |
|                           | 28                            | MAR 22                  | APR 05 | APR 20 | OCT 17                  | NOV 03 | NOV 19 | 235                     | 211 | 187 | 19                                |  |
| SHELBYNA                  | 36                            | APR 23                  | MAY 09 | MAY 24 | SEP 15                  | OCT 01 | OCT 16 | 162                     | 144 | 126 | 41                                |  |
|                           | 32                            | APR 15                  | APR 26 | MAY 08 | SEP 26                  | OCT 11 | OCT 26 | 186                     | 167 | 149 | 35                                |  |
|                           | 28                            | MAR 31                  | APR 13 | APR 27 | OCT 07                  | OCT 22 | NOV 07 | 212                     | 191 | 171 | 27                                |  |
| SIKESTON PWR PLT          | 36                            | APR 02                  | APR 17 | MAY 03 | OCT 03                  | OCT 15 | OCT 27 | 197                     | 180 | 163 | 32                                |  |
|                           | 32                            | MAR 23                  | APR 07 | APR 21 | OCT 15                  | OCT 29 | NOV 11 | 225                     | 204 | 184 | 25                                |  |
|                           | 28                            | MAR 11                  | MAR 25 | APR 08 | OCT 25                  | NOV 07 | NOV 20 | 246                     | 227 | 207 | 17                                |  |
| STEFFENVILLE 1 E          | 36                            | APR 16                  | MAY 02 | MAY 18 | SEP 23                  | OCT 06 | OCT 20 | 175                     | 156 | 138 | 41                                |  |
|                           | 32                            | APR 07                  | APR 21 | MAY 05 | SEP 30                  | OCT 14 | OCT 28 | 195                     | 175 | 155 | 34                                |  |
|                           | 28                            | MAR 28                  | APR 09 | APR 20 | OCT 13                  | OCT 28 | NOV 12 | 221                     | 201 | 182 | 27                                |  |
| SWEET SPRINGS             | 36                            | APR 24                  | MAY 08 | MAY 22 | SEP 20                  | OCT 03 | OCT 17 | 163                     | 147 | 131 | 39                                |  |
|                           | 32                            | APR 05                  | APR 21 | MAY 07 | OCT 02                  | OCT 15 | OCT 27 | 193                     | 176 | 158 | 33                                |  |
|                           | 28                            | MAR 28                  | APR 09 | APR 21 | OCT 12                  | OCT 26 | NOV 09 | 218                     | 199 | 181 | 25                                |  |
| TRENTON                   | 36                            | APR 17                  | APR 30 | MAY 13 | SEP 21                  | OCT 07 | OCT 23 | 176                     | 159 | 141 | 41                                |  |
|                           | 32                            | APR 05                  | APR 19 | MAY 03 | OCT 03                  | OCT 17 | OCT 31 | 203                     | 180 | 158 | 34                                |  |
|                           | 28                            | MAR 26                  | APR 08 | APR 21 | OCT 11                  | OCT 27 | NOV 13 | 220                     | 201 | 183 | 26                                |  |
| UNION                     | 36                            | APR 21                  | MAY 06 | MAY 22 | SEP 17                  | SEP 30 | OCT 14 | 160                     | 146 | 133 | 39                                |  |
|                           | 32                            | APR 11                  | APR 26 | MAY 11 | SEP 29                  | OCT 12 | OCT 25 | 187                     | 168 | 149 | 32                                |  |
|                           | 28                            | MAR 28                  | APR 11 | APR 26 | OCT 06                  | OCT 22 | NOV 07 | 213                     | 193 | 173 | 24                                |  |
| UNIONVILLE                | 36                            | APR 19                  | MAY 02 | MAY 15 | SEP 23                  | OCT 07 | OCT 20 | 172                     | 157 | 141 | 42                                |  |
|                           | 32                            | APR 08                  | APR 20 | MAY 03 | OCT 03                  | OCT 17 | NOV 01 | 199                     | 179 | 159 | 36                                |  |
|                           | 28                            | MAR 28                  | APR 10 | APR 24 | OCT 12                  | OCT 29 | NOV 14 | 222                     | 201 | 179 | 28                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                 |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                 |  |
| MISSOURI                  |                               |                         |        |        |                         |        |        |                         |     |     |                                 |  |
| VICHY FAA AIRPORT         | 36                            | APR 13                  | APR 26 | MAY 08 | OCT 05                  | OCT 17 | OCT 28 | 191                     | 173 | 156 | 35                              |  |
|                           | 32                            | MAR 27                  | APR 12 | APR 27 | OCT 15                  | OCT 28 | NOV 09 | 219                     | 198 | 177 | 29                              |  |
|                           | 28                            | MAR 21                  | APR 01 | APR 12 | OCT 21                  | NOV 05 | NOV 19 | 237                     | 217 | 196 | 21                              |  |
| WAPPAPELLO DAM            | 36                            | APR 05                  | APR 19 | MAY 02 | OCT 07                  | OCT 20 | NOV 03 | 204                     | 184 | 163 | 33                              |  |
|                           | 32                            | MAR 23                  | APR 04 | APR 15 | OCT 16                  | OCT 29 | NOV 12 | 223                     | 208 | 193 | 26                              |  |
|                           | 28                            | MAR 14                  | MAR 26 | APR 08 | OCT 28                  | NOV 09 | NOV 21 | 243                     | 227 | 211 | 19                              |  |
| WARRENSBURG               | 36                            | APR 12                  | APR 25 | MAY 08 | SEP 28                  | OCT 15 | NOV 01 | 196                     | 173 | 150 | 36                              |  |
|                           | 32                            | MAR 28                  | APR 13 | APR 30 | OCT 09                  | OCT 24 | NOV 08 | 221                     | 193 | 165 | 29                              |  |
|                           | 28                            | MAR 21                  | APR 04 | APR 18 | OCT 20                  | NOV 03 | NOV 17 | 235                     | 212 | 189 | 21                              |  |
| WARSAW NO 1               | 36                            | APR 20                  | MAY 03 | MAY 17 | SEP 29                  | OCT 10 | OCT 21 | 176                     | 159 | 141 | 38                              |  |
|                           | 32                            | APR 08                  | APR 22 | MAY 05 | OCT 04                  | OCT 17 | OCT 30 | 195                     | 178 | 160 | 31                              |  |
|                           | 28                            | MAR 26                  | APR 09 | APR 23 | OCT 15                  | OCT 28 | NOV 09 | 221                     | 201 | 181 | 24                              |  |
| WASOLA                    | 36                            | APR 09                  | APR 25 | MAY 11 | OCT 01                  | OCT 16 | OCT 31 | 193                     | 173 | 153 | 34                              |  |
|                           | 32                            | MAR 28                  | APR 13 | APR 29 | OCT 15                  | OCT 29 | NOV 12 | 221                     | 199 | 176 | 26                              |  |
|                           | 28                            | MAR 19                  | MAR 31 | APR 12 | OCT 24                  | NOV 06 | NOV 19 | 237                     | 219 | 201 | 20                              |  |
| WAYNESVILLE 2 W           | 36                            | APR 26                  | MAY 11 | MAY 25 | SEP 11                  | SEP 24 | OCT 08 | 153                     | 136 | 120 | 41                              |  |
|                           | 32                            | APR 21                  | MAY 04 | MAY 17 | SEP 27                  | OCT 08 | OCT 19 | 174                     | 157 | 139 | 34                              |  |
|                           | 28                            | APR 05                  | APR 22 | MAY 09 | OCT 02                  | OCT 17 | NOV 01 | 199                     | 177 | 156 | 27                              |  |
| WEST PLAINS               | 36                            | APR 14                  | MAY 01 | MAY 17 | SEP 29                  | OCT 09 | OCT 18 | 180                     | 160 | 140 | 38                              |  |
|                           | 32                            | APR 05                  | APR 20 | MAY 04 | OCT 06                  | OCT 18 | OCT 29 | 196                     | 180 | 164 | 31                              |  |
|                           | 28                            | MAR 24                  | APR 08 | APR 23 | OCT 17                  | OCT 29 | NOV 10 | 223                     | 203 | 184 | 23                              |  |
| WILLOW SPRINGS            | 36                            | APR 20                  | MAY 07 | MAY 24 | SEP 27                  | OCT 06 | OCT 16 | 169                     | 151 | 133 | 39                              |  |
|                           | 32                            | APR 10                  | APR 27 | MAY 13 | OCT 02                  | OCT 15 | OCT 27 | 191                     | 170 | 149 | 32                              |  |
|                           | 28                            | MAR 26                  | APR 13 | APR 30 | OCT 07                  | OCT 22 | NOV 06 | 212                     | 192 | 171 | 25                              |  |
| WINDSOR                   | 36                            | APR 17                  | APR 28 | MAY 09 | SEP 27                  | OCT 13 | OCT 28 | 188                     | 167 | 147 | 38                              |  |
|                           | 32                            | MAR 30                  | APR 16 | MAY 03 | OCT 07                  | OCT 21 | NOV 05 | 212                     | 188 | 163 | 32                              |  |
|                           | 28                            | MAR 24                  | APR 07 | APR 20 | OCT 15                  | OCT 31 | NOV 16 | 231                     | 206 | 182 | 24                              |  |
| MONTANA                   |                               |                         |        |        |                         |        |        |                         |     |     |                                 |  |
| AUGUSTA                   | 36                            | MAY 28                  | JUN 18 | JUL 09 | AUG 18                  | SEP 01 | SEP 15 | 96                      | 74  | 52  | 59                              |  |
|                           | 32                            | MAY 09                  | MAY 27 | JUN 13 | AUG 31                  | SEP 12 | SEP 25 | 129                     | 108 | 87  | 50                              |  |
|                           | 28                            | APR 25                  | MAY 12 | MAY 30 | SEP 03                  | SEP 20 | OCT 06 | 153                     | 130 | 107 | 40                              |  |
| AUSTIN 1 W                | 36                            | JUN 05                  | JUN 26 | JUL 17 | AUG 20                  | AUG 31 | SEP 11 | 86                      | 65  | 44  | 63                              |  |
|                           | 32                            | MAY 18                  | JUN 08 | JUN 30 | AUG 25                  | SEP 11 | SEP 28 | 124                     | 94  | 64  | 54                              |  |
|                           | 28                            | APR 29                  | MAY 18 | JUN 06 | SEP 04                  | SEP 20 | OCT 05 | 149                     | 124 | 99  | 43                              |  |
| BALLANTINE                | 36                            | MAY 07                  | MAY 24 | JUN 09 | AUG 30                  | SEP 11 | SEP 23 | 130                     | 110 | 89  | 57                              |  |
|                           | 32                            | APR 27                  | MAY 14 | MAY 31 | SEP 10                  | SEP 22 | OCT 03 | 149                     | 130 | 110 | 50                              |  |
|                           | 28                            | APR 20                  | MAY 03 | MAY 16 | SEP 17                  | OCT 02 | OCT 16 | 167                     | 151 | 135 | 41                              |  |
| BARBER                    | 36                            | MAY 23                  | JUN 12 | JUL 01 | AUG 22                  | SEP 03 | SEP 15 | 104                     | 83  | 61  | 60                              |  |
|                           | 32                            | MAY 09                  | MAY 28 | JUN 16 | SEP 01                  | SEP 15 | SEP 29 | 132                     | 109 | 86  | 52                              |  |
|                           | 28                            | APR 25                  | MAY 10 | MAY 25 | SEP 11                  | SEP 25 | OCT 10 | 159                     | 137 | 116 | 43                              |  |
| BELGRADE AP               | 36                            | MAY 29                  | JUN 20 | JUL 12 | AUG 20                  | SEP 04 | SEP 19 | 102                     | 75  | 48  | 63                              |  |
|                           | 32                            | MAY 09                  | JUN 03 | JUN 27 | AUG 28                  | SEP 12 | SEP 27 | 133                     | 101 | 69  | 55                              |  |
|                           | 28                            | APR 24                  | MAY 09 | MAY 24 | SEP 08                  | SEP 23 | OCT 09 | 159                     | 137 | 114 | 45                              |  |
| BIGFORK 13 S              | 36                            | MAY 16                  | JUN 02 | JUN 19 | AUG 29                  | SEP 17 | OCT 06 | 134                     | 106 | 78  | 53                              |  |
|                           | 32                            | APR 30                  | MAY 16 | MAY 31 | SEP 11                  | SEP 29 | OCT 17 | 159                     | 136 | 113 | 40                              |  |
|                           | 28                            | APR 05                  | APR 24 | MAY 12 | SEP 22                  | OCT 14 | NOV 06 | 205                     | 173 | 141 | 27                              |  |
| BIG SANDY                 | 36                            | MAY 21                  | JUN 08 | JUN 26 | AUG 19                  | SEP 04 | SEP 19 | 113                     | 87  | 61  | 58                              |  |
|                           | 32                            | MAY 07                  | MAY 25 | JUN 12 | SEP 01                  | SEP 14 | SEP 28 | 133                     | 112 | 90  | 51                              |  |
|                           | 28                            | APR 22                  | MAY 09 | MAY 25 | SEP 09                  | SEP 24 | OCT 09 | 157                     | 138 | 119 | 43                              |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                  | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                  |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90               |                                   |  |
| <b>MONTANA</b>            |                               |                            |                            |                            |                            |                            |                            |                         |                   |                  |                                   |  |
| BIG TIMBER                | 36<br>32<br>28                | MAY 15<br>MAY 02<br>APR 19 | JUN 05<br>MAY 18<br>MAY 01 | JUN 26<br>JUN 03<br>MAY 12 | AUG 25<br>SEP 04<br>SEP 15 | SEP 09<br>SEP 20<br>OCT 02 | SEP 24<br>OCT 06<br>OCT 20 | 125<br>149<br>175       | 95<br>124<br>154  | 65<br>99<br>132  | 53<br>43<br>33                    |  |
| BILLINGS WATER PLANT      | 36<br>32<br>28                | MAY 11<br>APR 25<br>APR 18 | MAY 26<br>MAY 12<br>APR 30 | JUN 10<br>MAY 29<br>MAY 12 | SEP 01<br>SEP 06<br>SEP 18 | SEP 14<br>SEP 23<br>OCT 04 | SEP 28<br>OCT 10<br>OCT 21 | 133<br>156<br>178       | 111<br>133<br>157 | 89<br>110<br>135 | 55<br>47<br>37                    |  |
| BOULDER STATE SCHOOL      | 36<br>32<br>28                | JUN 11<br>MAY 21<br>MAY 06 | JUN 30<br>JUN 08<br>MAY 25 | JUL 20<br>JUN 27<br>JUN 12 | AUG 13<br>AUG 26<br>AUG 30 | AUG 26<br>SEP 06<br>SEP 14 | SEP 08<br>SEP 16<br>SEP 29 | 81<br>108<br>136        | 56<br>88<br>112   | 31<br>69<br>88   | 67<br>58<br>48                    |  |
| BOZEMAN MONT ST UNIV      | 36<br>32<br>28                | MAY 25<br>MAY 11<br>APR 21 | JUN 14<br>MAY 30<br>MAY 06 | JUL 03<br>JUN 19<br>MAY 20 | AUG 23<br>AUG 31<br>SEP 16 | SEP 06<br>SEP 16<br>OCT 03 | SEP 19<br>OCT 02<br>OCT 20 | 105<br>137<br>172       | 83<br>108<br>149  | 61<br>80<br>126  | 59<br>50<br>39                    |  |
| BOZEMAN 12 NE             | 36<br>32<br>28                | JUL 10<br>JUN 25<br>MAY 19 | JUL 22<br>JUL 12<br>JUN 12 | AUG 03<br>JUL 28<br>JUL 06 | JUL 30<br>AUG 03<br>AUG 18 | AUG 07<br>AUG 18<br>SEP 04 | AUG 17<br>SEP 03<br>SEP 20 | 31<br>64<br>116         | 15<br>37<br>83    | 0<br>10<br>49    | 77<br>66<br>53                    |  |
| BRADY AZNOE               | 36<br>32<br>28                | JUN 09<br>MAY 17<br>MAY 06 | JUN 30<br>JUN 06<br>MAY 21 | JUL 21<br>JUN 27<br>JUN 05 | AUG 12<br>AUG 27<br>SEP 04 | AUG 25<br>SEP 09<br>SEP 19 | SEP 08<br>SEP 21<br>OCT 04 | 82<br>117<br>143        | 56<br>94<br>121   | 30<br>70<br>98   | 63<br>55<br>46                    |  |
| BREDETTE                  | 36<br>32<br>28                | MAY 12<br>MAY 04<br>APR 25 | JUN 02<br>MAY 19<br>MAY 11 | JUN 24<br>JUN 03<br>MAY 27 | AUG 19<br>AUG 28<br>SEP 05 | SEP 06<br>SEP 14<br>SEP 23 | SEP 24<br>OCT 02<br>OCT 11 | 128<br>145<br>156       | 95<br>118<br>134  | 62<br>90<br>113  | 59<br>53<br>47                    |  |
| BRIDGER                   | 36<br>32<br>28                | MAY 12<br>APR 27<br>APR 17 | JUN 05<br>MAY 16<br>MAY 02 | JUN 28<br>JUN 04<br>MAY 17 | AUG 27<br>SEP 06<br>SEP 18 | SEP 10<br>SEP 20<br>OCT 03 | SEP 23<br>OCT 05<br>OCT 18 | 125<br>151<br>173       | 97<br>127<br>153  | 68<br>102<br>134 | 55<br>46<br>37                    |  |
| BROADUS                   | 36<br>32<br>28                | MAY 10<br>MAY 01<br>APR 20 | MAY 31<br>MAY 19<br>MAY 06 | JUN 22<br>JUN 07<br>MAY 21 | AUG 20<br>AUG 31<br>SEP 10 | SEP 05<br>SEP 14<br>SEP 24 | SEP 21<br>SEP 28<br>OCT 08 | 123<br>140<br>158       | 96<br>117<br>140  | 69<br>94<br>122  | 59<br>53<br>45                    |  |
| BROWNING                  | 36<br>32<br>28                | JUN 05<br>MAY 16<br>MAY 01 | JUN 29<br>JUN 09<br>MAY 17 | JUL 23<br>JUL 02<br>JUN 01 | AUG 08<br>AUG 23<br>SEP 05 | AUG 26<br>SEP 06<br>SEP 19 | SEP 13<br>SEP 21<br>OCT 04 | 88<br>116<br>146        | 57<br>89<br>125   | 25<br>62<br>104  | 61<br>51<br>41                    |  |
| CASCADE 5 S               | 36<br>32<br>28                | MAY 27<br>MAY 05<br>APR 23 | JUN 21<br>MAY 27<br>MAY 11 | JUL 16<br>JUN 17<br>MAY 29 | AUG 16<br>AUG 31<br>SEP 10 | AUG 29<br>SEP 13<br>SEP 25 | SEP 12<br>SEP 27<br>OCT 11 | 96<br>134<br>162        | 69<br>109<br>137  | 42<br>84<br>111  | 52<br>43<br>32                    |  |
| CHESTER                   | 36<br>32<br>28                | MAY 30<br>MAY 17<br>APR 29 | JUN 23<br>JUN 06<br>MAY 15 | JUL 17<br>JUN 26<br>JUN 01 | AUG 12<br>AUG 27<br>SEP 03 | AUG 27<br>SEP 08<br>SEP 17 | SEP 12<br>SEP 21<br>OCT 01 | 92<br>118<br>145        | 64<br>94<br>124   | 37<br>70<br>103  | 64<br>57<br>50                    |  |
| CHINOOK                   | 36<br>32<br>28                | MAY 16<br>MAY 03<br>APR 18 | JUN 02<br>MAY 16<br>MAY 04 | JUN 19<br>MAY 29<br>MAY 20 | AUG 22<br>SEP 03<br>SEP 09 | SEP 06<br>SEP 16<br>SEP 23 | SEP 22<br>SEP 29<br>OCT 08 | 116<br>140<br>162       | 96<br>122<br>142  | 77<br>104<br>122 | 58<br>51<br>43                    |  |
| CHOTEAU AIRPORT           | 36<br>32<br>28                | MAY 21<br>MAY 07<br>APR 23 | JUN 09<br>MAY 23<br>MAY 08 | JUN 27<br>JUN 08<br>MAY 22 | AUG 26<br>SEP 04<br>SEP 10 | SEP 08<br>SEP 17<br>SEP 27 | SEP 20<br>SEP 30<br>OCT 14 | 112<br>139<br>168       | 90<br>116<br>142  | 69<br>94<br>115  | 56<br>47<br>38                    |  |
| CIRCLE                    | 36<br>32<br>28                | MAY 13<br>MAY 02<br>APR 26 | JUN 10<br>MAY 20<br>MAY 11 | JUL 07<br>JUN 06<br>MAY 26 | AUG 18<br>AUG 28<br>SEP 06 | SEP 01<br>SEP 13<br>SEP 22 | SEP 14<br>SEP 30<br>OCT 07 | 115<br>146<br>155       | 82<br>116<br>133  | 49<br>86<br>112  | 60<br>53<br>46                    |  |
| COLSTRIP                  | 36<br>32<br>28                | MAY 17<br>APR 30<br>APR 17 | JUN 08<br>MAY 18<br>MAY 06 | JUN 29<br>JUN 06<br>MAY 25 | AUG 26<br>SEP 04<br>SEP 12 | SEP 09<br>SEP 18<br>SEP 29 | SEP 24<br>OCT 01<br>OCT 17 | 118<br>146<br>173       | 93<br>122<br>146  | 68<br>97<br>118  | 58<br>50<br>40                    |  |
| COLUMBUS                  | 36<br>32<br>28                | MAY 21<br>MAY 05<br>APR 21 | JUN 11<br>MAY 20<br>MAY 06 | JUL 02<br>JUN 03<br>MAY 21 | AUG 29<br>SEP 04<br>SEP 13 | SEP 09<br>SEP 18<br>SEP 28 | SEP 19<br>OCT 02<br>OCT 14 | 110<br>141<br>166       | 89<br>120<br>145  | 68<br>99<br>123  | 59<br>51<br>42                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                  | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                  |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90               |                                   |  |
| <b>MONTANA</b>            |                               |                            |                            |                            |                            |                            |                            |                         |                   |                  |                                   |  |
| CONRAD AIRPORT            | 36<br>32<br>28                | MAY 30<br>MAY 12<br>APR 30 | JUN 19<br>MAY 27<br>MAY 13 | JUL 09<br>JUN 12<br>MAY 25 | AUG 17<br>AUG 28<br>SEP 07 | SEP 02<br>SEP 14<br>SEP 23 | SEP 19<br>SEP 30<br>OCT 09 | 103<br>133<br>151       | 75<br>109<br>132  | 47<br>84<br>113  | 61<br>53<br>43                    |  |
| COOKE CITY                | 36<br>32<br>28                | JUL 26<br>JUL 10<br>JUN 15 | JUL 29<br>JUL 22<br>JUN 29 | AUG 01<br>AUG 03<br>JUL 12 | JUL 31<br>JUL 31<br>AUG 05 | AUG 03<br>AUG 08<br>AUG 23 | AUG 07<br>AUG 16<br>SEP 09 | 9<br>31<br>75           | 4<br>16<br>54     | 0<br>1<br>34     | 89<br>78<br>66                    |  |
| CRESTON                   | 36<br>32<br>28                | JUN 01<br>MAY 11<br>APR 25 | JUN 24<br>MAY 30<br>MAY 11 | JUL 17<br>JUN 18<br>MAY 28 | AUG 13<br>SEP 02<br>SEP 09 | AUG 29<br>SEP 14<br>SEP 24 | SEP 14<br>SEP 26<br>OCT 08 | 96<br>131<br>156        | 66<br>106<br>134  | 35<br>81<br>113  | 61<br>50<br>37                    |  |
| CROW AGENCY               | 36<br>32<br>28                | MAY 14<br>APR 26<br>APR 19 | MAY 31<br>MAY 15<br>MAY 02 | JUN 17<br>JUN 02<br>MAY 16 | AUG 27<br>SEP 03<br>SEP 11 | SEP 10<br>SEP 18<br>SEP 27 | SEP 23<br>OCT 03<br>OCT 12 | 120<br>146<br>164       | 101<br>125<br>147 | 81<br>105<br>129 | 59<br>52<br>43                    |  |
| CULBERTSON                | 36<br>32<br>28                | MAY 20<br>MAY 06<br>APR 26 | JUN 08<br>MAY 22<br>MAY 14 | JUN 27<br>JUN 07<br>MAY 31 | AUG 10<br>AUG 27<br>SEP 06 | AUG 28<br>SEP 10<br>SEP 19 | SEP 15<br>SEP 25<br>OCT 01 | 107<br>134<br>149       | 80<br>110<br>128  | 53<br>87<br>106  | 61<br>55<br>48                    |  |
| DARBY                     | 36<br>32<br>28                | JUN 06<br>MAY 08<br>APR 22 | JUN 26<br>JUN 01<br>MAY 12 | JUL 16<br>JUN 26<br>JUN 02 | AUG 13<br>AUG 28<br>SEP 11 | AUG 28<br>SEP 12<br>SEP 27 | SEP 13<br>SEP 27<br>OCT 13 | 88<br>131<br>162        | 62<br>102<br>137  | 37<br>73<br>111  | 61<br>48<br>35                    |  |
| DILLON FRA AP             | 36<br>32<br>28                | JUN 06<br>MAY 13<br>APR 29 | JUN 23<br>JUN 01<br>MAY 14 | JUL 11<br>JUN 21<br>MAY 28 | AUG 17<br>AUG 28<br>SEP 07 | SEP 01<br>SEP 11<br>SEP 21 | SEP 15<br>SEP 26<br>OCT 05 | 89<br>127<br>149        | 69<br>101<br>130  | 48<br>75<br>111  | 63<br>54<br>45                    |  |
| DILLON WMCE               | 36<br>32<br>28                | JUN 11<br>MAY 17<br>MAY 02 | JUN 30<br>JUN 08<br>MAY 18 | JUL 18<br>JUN 30<br>JUN 03 | AUG 15<br>AUG 25<br>SEP 03 | AUG 27<br>SEP 07<br>SEP 18 | SEP 09<br>SEP 20<br>OCT 03 | 82<br>115<br>142        | 58<br>91<br>122   | 34<br>67<br>103  | 64<br>54<br>43                    |  |
| DIVIDE 2 NW               | 36<br>32<br>28                | JUN 11<br>MAY 18<br>MAY 04 | JUN 30<br>JUN 09<br>MAY 20 | JUL 19<br>JUL 01<br>JUN 04 | AUG 19<br>AUG 23<br>SEP 07 | AUG 30<br>SEP 08<br>SEP 23 | SEP 10<br>SEP 24<br>OCT 08 | 81<br>115<br>143        | 60<br>91<br>125   | 39<br>66<br>108  | 67<br>58<br>48                    |  |
| EAST ANACONDA             | 36<br>32<br>28                | JUN 02<br>MAY 13<br>APR 25 | JUN 20<br>MAY 27<br>MAY 10 | JUL 08<br>JUN 10<br>MAY 24 | AUG 24<br>SEP 03<br>SEP 14 | SEP 07<br>SEP 21<br>OCT 02 | SEP 22<br>OCT 10<br>OCT 20 | 99<br>141<br>168        | 79<br>117<br>145  | 59<br>93<br>122  | 59<br>50<br>40                    |  |
| EKALAKA                   | 36<br>32<br>28                | MAY 17<br>MAY 11<br>APR 19 | JUN 07<br>MAY 26<br>MAY 09 | JUN 27<br>JUN 10<br>MAY 29 | AUG 17<br>AUG 30<br>SEP 07 | SEP 03<br>SEP 15<br>SEP 25 | SEP 19<br>OCT 01<br>OCT 13 | 113<br>133<br>160       | 87<br>112<br>138  | 61<br>90<br>115  | 58<br>52<br>43                    |  |
| ENNIS                     | 36<br>32<br>28                | JUN 05<br>MAY 17<br>APR 28 | JUN 27<br>JUN 04<br>MAY 17 | JUL 20<br>JUN 22<br>JUN 05 | AUG 08<br>AUG 25<br>SEP 04 | AUG 26<br>SEP 07<br>SEP 19 | SEP 13<br>SEP 21<br>OCT 03 | 86<br>117<br>148        | 59<br>95<br>125   | 32<br>73<br>101  | 63<br>51<br>40                    |  |
| FAIRFIELD                 | 36<br>32<br>28                | MAY 23<br>MAY 07<br>APR 23 | JUN 09<br>MAY 20<br>MAY 06 | JUN 26<br>JUN 03<br>MAY 19 | AUG 28<br>SEP 04<br>SEP 15 | SEP 09<br>SEP 20<br>OCT 03 | SEP 21<br>OCT 07<br>OCT 21 | 111<br>146<br>172       | 91<br>122<br>149  | 71<br>99<br>126  | 56<br>47<br>37                    |  |
| FLATWILLOW 4 ENE          | 36<br>32<br>28                | MAY 15<br>MAY 05<br>APR 25 | JUN 09<br>MAY 19<br>MAY 10 | JUL 05<br>JUN 03<br>MAY 25 | AUG 25<br>SEP 04<br>SEP 14 | SEP 08<br>SEP 17<br>SEP 28 | SEP 21<br>SEP 30<br>OCT 13 | 119<br>139<br>162       | 90<br>120<br>141  | 60<br>101<br>120 | 57<br>49<br>40                    |  |
| FORKS 4 NNE               | 36<br>32<br>28                | MAY 21<br>MAY 06<br>APR 26 | JUN 10<br>MAY 23<br>MAY 12 | JUN 30<br>JUN 10<br>MAY 27 | AUG 17<br>SEP 05<br>SEP 06 | SEP 03<br>SEP 15<br>SEP 23 | SEP 20<br>SEP 24<br>OCT 10 | 107<br>134<br>152       | 84<br>113<br>152  | 60<br>93<br>115  | 61<br>54<br>47                    |  |
| FORT ASSINNIBOINE         | 36<br>32<br>28                | MAY 19<br>MAY 01<br>APR 20 | JUN 04<br>MAY 16<br>MAY 04 | JUN 21<br>MAY 30<br>MAY 18 | AUG 26<br>SEP 05<br>SEP 12 | SEP 09<br>SEP 18<br>SEP 28 | SEP 22<br>OCT 02<br>OCT 14 | 114<br>145<br>165       | 96<br>125<br>146  | 78<br>105<br>128 | 58<br>51<br>42                    |  |
| FORT BENTON               | 36<br>32<br>28                | MAY 17<br>MAY 09<br>APR 24 | JUN 08<br>MAY 21<br>MAY 07 | JUN 29<br>JUN 03<br>MAY 20 | AUG 26<br>SEP 02<br>SEP 08 | SEP 07<br>SEP 14<br>SEP 24 | SEP 20<br>SEP 25<br>OCT 10 | 114<br>132<br>160       | 91<br>114<br>139  | 68<br>97<br>119  | 56<br>49<br>40                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| MONTANA                   |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| FORTINE 1 N               | 36                            | JUL 01                  | JUL 18 | AUG 05 | JUL 31                  | AUG 14 | AUG 29 | 51                      | 26  | 2   | 66                                |  |
|                           | 32                            | MAY 21                  | JUN 18 | JUL 16 | AUG 18                  | SEP 01 | SEP 15 | 106                     | 74  | 42  | 54                                |  |
|                           | 28                            | MAY 04                  | MAY 23 | JUN 11 | AUG 31                  | SEP 14 | SEP 28 | 139                     | 114 | 88  | 42                                |  |
| FORT PECK POWER PLANT     | 36                            | MAY 01                  | MAY 16 | JUN 01 | SEP 05                  | SEP 18 | SEP 30 | 143                     | 123 | 104 | 52                                |  |
|                           | 32                            | APR 20                  | MAY 05 | MAY 19 | SEP 13                  | SEP 28 | OCT 13 | 164                     | 146 | 127 | 46                                |  |
|                           | 28                            | APR 13                  | APR 27 | MAY 11 | SEP 19                  | OCT 08 | OCT 26 | 181                     | 163 | 145 | 39                                |  |
| GERALDINE                 | 36                            | MAY 23                  | JUN 17 | JUL 12 | AUG 19                  | SEP 03 | SEP 19 | 111                     | 78  | 45  | 56                                |  |
|                           | 32                            | MAY 06                  | MAY 24 | JUN 11 | SEP 03                  | SEP 14 | SEP 24 | 133                     | 112 | 90  | 47                                |  |
|                           | 28                            | APR 28                  | MAY 10 | MAY 22 | SEP 06                  | SEP 23 | OCT 09 | 154                     | 135 | 117 | 39                                |  |
| GIBSON DAM                | 36                            | JUN 14                  | JUL 03 | JUL 22 | AUG 09                  | AUG 24 | SEP 09 | 73                      | 52  | 30  | 63                                |  |
|                           | 32                            | MAY 22                  | JUN 10 | JUN 29 | AUG 29                  | SEP 10 | SEP 22 | 113                     | 91  | 69  | 51                                |  |
|                           | 28                            | APR 30                  | MAY 16 | JUN 01 | SEP 12                  | SEP 25 | OCT 09 | 152                     | 132 | 111 | 39                                |  |
| GLENDALE                  | 36                            | MAY 01                  | MAY 14 | MAY 28 | SEP 04                  | SEP 18 | OCT 02 | 144                     | 126 | 107 | 53                                |  |
|                           | 32                            | APR 21                  | MAY 05 | MAY 19 | SEP 10                  | SEP 27 | OCT 14 | 168                     | 145 | 121 | 47                                |  |
|                           | 28                            | APR 14                  | APR 27 | MAY 09 | SEP 21                  | OCT 06 | OCT 21 | 181                     | 162 | 142 | 39                                |  |
| GOLDBUTTE 7 N             | 36                            | JUN 14                  | JUL 06 | JUL 29 | AUG 07                  | AUG 23 | SEP 09 | 75                      | 47  | 20  | 59                                |  |
|                           | 32                            | MAY 22                  | JUN 04 | JUN 18 | AUG 15                  | SEP 03 | SEP 22 | 114                     | 90  | 66  | 50                                |  |
|                           | 28                            | MAY 03                  | MAY 15 | MAY 27 | SEP 04                  | SEP 21 | OCT 08 | 147                     | 128 | 110 | 41                                |  |
| GRASSRANGE                | 36                            | MAY 29                  | JUN 18 | JUL 08 | AUG 21                  | SEP 02 | SEP 15 | 95                      | 76  | 56  | 61                                |  |
|                           | 32                            | MAY 10                  | MAY 27 | JUN 13 | AUG 31                  | SEP 16 | OCT 01 | 134                     | 111 | 88  | 52                                |  |
|                           | 28                            | APR 26                  | MAY 12 | MAY 29 | SEP 08                  | SEP 24 | OCT 10 | 155                     | 134 | 113 | 43                                |  |
| HAMILTON                  | 36                            | MAY 20                  | JUN 07 | JUN 25 | AUG 25                  | SEP 05 | SEP 16 | 110                     | 89  | 68  | 57                                |  |
|                           | 32                            | MAY 06                  | MAY 24 | JUN 12 | SEP 06                  | SEP 20 | OCT 03 | 143                     | 117 | 92  | 46                                |  |
|                           | 28                            | APR 19                  | MAY 04 | MAY 19 | SEP 17                  | OCT 03 | OCT 20 | 175                     | 152 | 128 | 34                                |  |
| HARDIN                    | 36                            | MAY 09                  | MAY 31 | JUN 22 | AUG 27                  | SEP 09 | SEP 23 | 125                     | 100 | 76  | 59                                |  |
|                           | 32                            | APR 27                  | MAY 17 | JUN 05 | SEP 06                  | SEP 20 | OCT 05 | 149                     | 126 | 103 | 52                                |  |
|                           | 28                            | APR 17                  | MAY 01 | MAY 14 | SEP 15                  | OCT 01 | OCT 17 | 170                     | 153 | 135 | 43                                |  |
| HARLEM                    | 36                            | MAY 17                  | JUN 05 | JUN 24 | AUG 18                  | SEP 04 | SEP 22 | 119                     | 91  | 63  | 60                                |  |
|                           | 32                            | MAY 06                  | MAY 23 | JUN 08 | SEP 02                  | SEP 15 | SEP 28 | 137                     | 114 | 91  | 53                                |  |
|                           | 28                            | APR 23                  | MAY 08 | MAY 24 | SEP 09                  | SEP 24 | OCT 08 | 157                     | 138 | 118 | 46                                |  |
| HARLOWTON                 | 36                            | MAY 27                  | JUN 18 | JUL 10 | AUG 17                  | AUG 29 | SEP 10 | 98                      | 72  | 45  | 61                                |  |
|                           | 32                            | MAY 08                  | MAY 27 | JUN 15 | AUG 29                  | SEP 11 | SEP 24 | 131                     | 106 | 81  | 52                                |  |
|                           | 28                            | APR 27                  | MAY 15 | JUN 03 | SEP 06                  | SEP 22 | OCT 07 | 151                     | 129 | 106 | 42                                |  |
| HAUGAN 3 E                | 36                            | JUL 13                  | JUL 24 | AUG 05 | JUL 31                  | AUG 06 | AUG 13 | 27                      | 12  | 0   | 74                                |  |
|                           | 32                            | JUN 20                  | JUL 13 | AUG 05 | JUL 31                  | AUG 18 | SEP 06 | 70                      | 35  | 1   | 61                                |  |
|                           | 28                            | MAY 11                  | JUN 11 | JUL 12 | AUG 17                  | SEP 05 | SEP 23 | 122                     | 85  | 48  | 43                                |  |
| HAXBY 18 SW               | 36                            | MAY 16                  | JUN 03 | JUN 21 | AUG 23                  | SEP 06 | SEP 21 | 120                     | 95  | 69  | 60                                |  |
|                           | 32                            | MAY 06                  | MAY 20 | JUN 02 | SEP 06                  | SEP 17 | SEP 29 | 137                     | 120 | 103 | 53                                |  |
|                           | 28                            | APR 22                  | MAY 07 | MAY 22 | SEP 10                  | SEP 25 | OCT 10 | 155                     | 140 | 125 | 45                                |  |
| HEBGEN DAM                | 36                            | JUN 21                  | JUL 06 | JUL 21 | AUG 06                  | AUG 21 | SEP 05 | 67                      | 45  | 23  | 74                                |  |
|                           | 32                            | JUN 11                  | JUN 27 | JUL 13 | AUG 12                  | AUG 30 | SEP 17 | 85                      | 63  | 41  | 66                                |  |
|                           | 28                            | MAY 13                  | JUN 01 | JUN 20 | AUG 31                  | SEP 15 | SEP 30 | 130                     | 105 | 80  | 54                                |  |
| HELENA WSO                | 36                            | MAY 16                  | JUN 04 | JUN 23 | AUG 25                  | SEP 08 | SEP 21 | 120                     | 95  | 70  | 59                                |  |
|                           | 32                            | MAY 02                  | MAY 18 | JUN 02 | SEP 02                  | SEP 18 | OCT 03 | 141                     | 122 | 104 | 50                                |  |
|                           | 28                            | APR 16                  | MAY 02 | MAY 18 | SEP 13                  | SEP 29 | OCT 16 | 172                     | 149 | 126 | 41                                |  |
| HERON 2 NW                | 36                            | JUN 18                  | JUL 10 | AUG 01 | AUG 01                  | AUG 21 | SEP 10 | 74                      | 42  | 9   | 62                                |  |
|                           | 32                            | MAY 10                  | JUN 06 | JUL 04 | AUG 20                  | SEP 09 | SEP 28 | 128                     | 94  | 59  | 49                                |  |
|                           | 28                            | APR 28                  | MAY 13 | MAY 29 | SEP 08                  | SEP 26 | OCT 13 | 155                     | 135 | 114 | 32                                |  |
| HOTTER DAM                | 36                            | MAY 05                  | MAY 25 | JUN 13 | SEP 01                  | SEP 19 | OCT 07 | 141                     | 116 | 91  | 44                                |  |
|                           | 32                            | APR 23                  | MAY 07 | MAY 22 | SEP 13                  | OCT 01 | OCT 18 | 165                     | 146 | 126 | 34                                |  |
|                           | 28                            | APR 11                  | APR 24 | MAY 07 | SEP 27                  | OCT 15 | NOV 01 | 192                     | 173 | 154 | 25                                |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| MONTANA                   |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| HUNGRY HORSE DAM          | 36                            | MAY 16                  | JUN 09 | JUL 02 | SEP 01                  | SEP 11 | SEP 21 | 122                     | 94  | 66  | 59                                |  |
|                           | 32                            | APR 30                  | MAY 18 | JUN 05 | SEP 08                  | SEP 23 | OCT 08 | 149                     | 128 | 106 | 47                                |  |
|                           | 28                            | APR 08                  | APR 25 | MAY 12 | SEP 20                  | OCT 12 | NOV 03 | 200                     | 169 | 138 | 33                                |  |
| HUNTLEY EXP STATION       | 36                            | MAY 13                  | MAY 31 | JUN 18 | AUG 30                  | SEP 11 | SEP 23 | 126                     | 102 | 78  | 58                                |  |
|                           | 32                            | MAY 01                  | MAY 17 | JUN 02 | SEP 04                  | SEP 20 | OCT 05 | 147                     | 125 | 102 | 51                                |  |
|                           | 28                            | APR 21                  | MAY 02 | MAY 13 | SEP 13                  | SEP 29 | OCT 14 | 167                     | 149 | 130 | 41                                |  |
| HYSHAM                    | 36                            | MAY 12                  | MAY 28 | JUN 13 | AUG 28                  | SEP 09 | SEP 21 | 122                     | 103 | 84  | 57                                |  |
|                           | 32                            | APR 29                  | MAY 16 | JUN 01 | SEP 04                  | SEP 18 | OCT 02 | 143                     | 124 | 106 | 50                                |  |
|                           | 28                            | APR 16                  | APR 30 | MAY 14 | SEP 15                  | OCT 02 | OCT 18 | 173                     | 154 | 135 | 41                                |  |
| JOPLIN 1 N                | 36                            | MAY 24                  | JUN 17 | JUL 10 | AUG 19                  | SEP 03 | SEP 18 | 106                     | 78  | 50  | 61                                |  |
|                           | 32                            | MAY 10                  | MAY 27 | JUN 12 | SEP 02                  | SEP 13 | SEP 25 | 129                     | 109 | 89  | 54                                |  |
|                           | 28                            | APR 26                  | MAY 12 | MAY 27 | SEP 07                  | SEP 22 | OCT 07 | 153                     | 133 | 112 | 46                                |  |
| JORDAN                    | 36                            | MAY 17                  | JUN 04 | JUN 23 | AUG 18                  | SEP 03 | SEP 19 | 115                     | 90  | 65  | 59                                |  |
|                           | 32                            | MAY 03                  | MAY 19 | JUN 03 | AUG 31                  | SEP 14 | SEP 27 | 136                     | 117 | 99  | 53                                |  |
|                           | 28                            | APR 23                  | MAY 05 | MAY 17 | SEP 08                  | SEP 23 | OCT 09 | 157                     | 140 | 124 | 45                                |  |
| KALISPELL                 | 36                            | MAY 20                  | JUN 12 | JUL 05 | AUG 26                  | SEP 07 | SEP 19 | 116                     | 87  | 57  | 58                                |  |
|                           | 32                            | APR 30                  | MAY 20 | JUN 10 | SEP 07                  | SEP 20 | OCT 03 | 148                     | 122 | 96  | 47                                |  |
|                           | 28                            | APR 11                  | APR 28 | MAY 15 | SEP 15                  | OCT 02 | OCT 19 | 183                     | 157 | 130 | 34                                |  |
| LAKEVIEW                  | 36                            | JUL 11                  | JUL 23 | AUG 03 | JUL 31                  | AUG 10 | AUG 20 | 34                      | 17  | 1   | 79                                |  |
|                           | 32                            | JUN 26                  | JUL 09 | JUL 21 | AUG 09                  | AUG 24 | SEP 07 | 63                      | 45  | 27  | 69                                |  |
|                           | 28                            | MAY 20                  | JUN 13 | JUL 06 | AUG 18                  | SEP 03 | SEP 19 | 106                     | 81  | 57  | 58                                |  |
| LEWISTOWN FAA AP          | 36                            | MAY 22                  | JUN 15 | JUL 10 | AUG 20                  | SEP 03 | SEP 17 | 106                     | 79  | 51  | 61                                |  |
|                           | 32                            | MAY 10                  | MAY 24 | JUN 07 | SEP 01                  | SEP 18 | OCT 04 | 137                     | 116 | 94  | 51                                |  |
|                           | 28                            | APR 25                  | MAY 10 | MAY 26 | SEP 09                  | SEP 25 | OCT 12 | 156                     | 137 | 118 | 42                                |  |
| LIBBY 1 NE RANGER STA     | 36                            | JUN 23                  | JUL 14 | AUG 03 | AUG 03                  | AUG 20 | SEP 06 | 66                      | 36  | 7   | 65                                |  |
|                           | 32                            | MAY 22                  | JUN 16 | JUL 12 | AUG 19                  | SEP 05 | SEP 21 | 112                     | 80  | 47  | 53                                |  |
|                           | 28                            | APR 28                  | MAY 17 | JUN 04 | SEP 01                  | SEP 20 | OCT 08 | 151                     | 125 | 100 | 37                                |  |
| LIMA                      | 36                            | JUL 02                  | JUL 16 | JUL 30 | JUL 31                  | AUG 13 | AUG 27 | 49                      | 28  | 7   | 73                                |  |
|                           | 32                            | JUN 14                  | JUL 01 | JUL 19 | AUG 13                  | AUG 27 | SEP 11 | 81                      | 56  | 31  | 64                                |  |
|                           | 28                            | MAY 18                  | JUN 10 | JUL 02 | AUG 21                  | SEP 06 | SEP 22 | 118                     | 88  | 57  | 54                                |  |
| LINCOLN RANGER STATION    | 36                            | JUL 13                  | JUL 24 | AUG 04 | JUL 31                  | AUG 07 | AUG 15 | 26                      | 13  | 0   | 76                                |  |
|                           | 32                            | JUN 21                  | JUL 11 | JUL 30 | JUL 31                  | AUG 13 | AUG 25 | 57                      | 32  | 7   | 65                                |  |
|                           | 28                            | MAY 17                  | JUN 15 | JUL 14 | AUG 16                  | AUG 29 | SEP 12 | 111                     | 75  | 38  | 52                                |  |
| LIVINGSTON                | 36                            | MAY 22                  | JUN 11 | JUN 30 | AUG 26                  | SEP 09 | SEP 22 | 115                     | 89  | 63  | 54                                |  |
|                           | 32                            | MAY 07                  | MAY 22 | JUN 06 | AUG 31                  | SEP 19 | OCT 08 | 144                     | 119 | 95  | 43                                |  |
|                           | 28                            | APR 22                  | MAY 06 | MAY 20 | SEP 11                  | SEP 29 | OCT 18 | 170                     | 145 | 121 | 33                                |  |
| LIVINGSTON FAA AIRPORT    | 36                            | MAY 21                  | JUN 13 | JUL 06 | AUG 28                  | SEP 09 | SEP 22 | 115                     | 87  | 60  | 55                                |  |
|                           | 32                            | MAY 08                  | MAY 24 | JUN 09 | SEP 01                  | SEP 18 | OCT 04 | 141                     | 116 | 91  | 45                                |  |
|                           | 28                            | APR 20                  | MAY 05 | MAY 19 | SEP 12                  | SEP 29 | OCT 16 | 170                     | 147 | 123 | 34                                |  |
| LOMA 1 NW                 | 36                            | MAY 20                  | JUN 06 | JUN 23 | AUG 24                  | SEP 06 | SEP 19 | 109                     | 91  | 73  | 59                                |  |
|                           | 32                            | MAY 03                  | MAY 18 | JUN 03 | SEP 05                  | SEP 15 | SEP 26 | 138                     | 119 | 101 | 51                                |  |
|                           | 28                            | APR 22                  | MAY 06 | MAY 20 | SEP 10                  | SEP 25 | OCT 10 | 162                     | 141 | 120 | 43                                |  |
| LONESOME LAKE             | 36                            | MAY 26                  | JUN 20 | JUL 15 | AUG 09                  | AUG 28 | SEP 16 | 104                     | 69  | 33  | 61                                |  |
|                           | 32                            | MAY 11                  | MAY 30 | JUN 18 | AUG 29                  | SEP 11 | SEP 23 | 124                     | 103 | 82  | 54                                |  |
|                           | 28                            | APR 28                  | MAY 14 | MAY 30 | SEP 04                  | SEP 20 | OCT 06 | 150                     | 128 | 106 | 45                                |  |
| LUSTRE 4 NNW              | 36                            | MAY 11                  | MAY 28 | JUN 13 | AUG 26                  | SEP 11 | SEP 26 | 129                     | 105 | 82  | 58                                |  |
|                           | 32                            | MAY 02                  | MAY 16 | MAY 29 | SEP 06                  | SEP 20 | OCT 04 | 146                     | 127 | 107 | 52                                |  |
|                           | 28                            | APR 22                  | MAY 08 | MAY 23 | SEP 15                  | OCT 03 | OCT 20 | 166                     | 147 | 128 | 44                                |  |
| MARTINSDALE 3 NNW         | 36                            | JUN 15                  | JUL 08 | JUL 31 | AUG 01                  | AUG 17 | SEP 03 | 69                      | 40  | 10  | 66                                |  |
|                           | 32                            | MAY 22                  | JUN 19 | JUL 16 | AUG 14                  | AUG 31 | SEP 18 | 109                     | 73  | 37  | 56                                |  |
|                           | 28                            | MAY 02                  | MAY 25 | JUN 16 | AUG 30                  | SEP 14 | SEP 29 | 140                     | 111 | 83  | 45                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|-----|-----|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |     |     |                                   |  |
|                           |                               | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50  | 90  |                                   |  |
| MONTANA                   |                               |                            |        |        |                            |        |        |                            |     |     |                                   |  |
| MEDICINE LAKE 3 SE        | 36                            | MAY 09                     | MAY 28 | JUN 16 | AUG 18                     | SEP 05 | SEP 23 | 124                        | 99  | 74  | 58                                |  |
|                           | 32                            | MAY 02                     | MAY 18 | JUN 03 | SEP 01                     | SEP 18 | OCT 05 | 148                        | 123 | 98  | 52                                |  |
|                           | 28                            | APR 23                     | MAY 11 | MAY 29 | SEP 07                     | SEP 24 | OCT 11 | 160                        | 136 | 111 | 45                                |  |
| MELSTONE                  | 36                            | MAY 10                     | MAY 29 | JUN 16 | SEP 03                     | SEP 13 | SEP 23 | 126                        | 107 | 87  | 56                                |  |
|                           | 32                            | APR 30                     | MAY 15 | MAY 31 | SEP 08                     | SEP 23 | OCT 07 | 147                        | 130 | 112 | 48                                |  |
|                           | 28                            | APR 20                     | MAY 05 | MAY 20 | SEP 18                     | OCT 02 | OCT 17 | 166                        | 150 | 133 | 39                                |  |
| MILES CITY                | 36                            | MAY 06                     | MAY 20 | JUN 03 | SEP 01                     | SEP 15 | SEP 29 | 135                        | 117 | 99  | 54                                |  |
|                           | 32                            | APR 25                     | MAY 09 | MAY 24 | SEP 09                     | SEP 25 | OCT 10 | 158                        | 138 | 117 | 48                                |  |
|                           | 28                            | APR 16                     | APR 29 | MAY 11 | SEP 17                     | OCT 05 | OCT 22 | 178                        | 158 | 138 | 40                                |  |
| MILES CITY FAA AP         | 36                            | APR 30                     | MAY 16 | JUN 01 | SEP 05                     | SEP 21 | OCT 08 | 148                        | 128 | 107 | 53                                |  |
|                           | 32                            | APR 22                     | MAY 07 | MAY 22 | SEP 13                     | SEP 29 | OCT 15 | 167                        | 145 | 122 | 46                                |  |
|                           | 28                            | APR 11                     | APR 25 | MAY 09 | SEP 27                     | OCT 12 | OCT 27 | 189                        | 169 | 149 | 39                                |  |
| MOCCASIN EXP STATION      | 36                            | MAY 22                     | JUN 13 | JUL 06 | AUG 25                     | SEP 05 | SEP 16 | 109                        | 83  | 57  | 59                                |  |
|                           | 32                            | MAY 09                     | MAY 26 | JUN 13 | SEP 02                     | SEP 18 | OCT 04 | 139                        | 114 | 90  | 51                                |  |
|                           | 28                            | APR 26                     | MAY 10 | MAY 24 | SEP 11                     | SEP 26 | OCT 11 | 162                        | 138 | 115 | 41                                |  |
| MYSTIC LAKE               | 36                            | JUN 03                     | JUN 23 | JUL 13 | AUG 20                     | SEP 04 | SEP 18 | 96                         | 71  | 47  | 60                                |  |
|                           | 32                            | MAY 22                     | JUN 12 | JUL 02 | AUG 27                     | SEP 14 | OCT 03 | 121                        | 94  | 67  | 51                                |  |
|                           | 28                            | MAY 02                     | MAY 19 | JUN 06 | SEP 08                     | SEP 27 | OCT 15 | 152                        | 129 | 106 | 41                                |  |
| NOHLY 3 WNW               | 36                            | MAY 14                     | JUN 06 | JUN 29 | AUG 13                     | AUG 30 | SEP 16 | 112                        | 85  | 57  | 59                                |  |
|                           | 32                            | MAY 06                     | MAY 21 | JUN 06 | AUG 24                     | SEP 10 | SEP 27 | 129                        | 111 | 93  | 53                                |  |
|                           | 28                            | APR 24                     | MAY 09 | MAY 24 | SEP 07                     | SEP 22 | OCT 07 | 155                        | 135 | 114 | 46                                |  |
| NORRIS MADISON PH         | 36                            | MAY 11                     | MAY 30 | JUN 19 | SEP 04                     | SEP 19 | OCT 03 | 137                        | 111 | 84  | 50                                |  |
|                           | 32                            | APR 22                     | MAY 07 | MAY 22 | SEP 12                     | SEP 30 | OCT 18 | 171                        | 145 | 119 | 40                                |  |
|                           | 28                            | APR 14                     | APR 26 | MAY 08 | SEP 25                     | OCT 13 | OCT 31 | 191                        | 169 | 146 | 29                                |  |
| OPHEIM 12 SSE             | 36                            | MAY 30                     | JUN 21 | JUL 13 | AUG 08                     | AUG 24 | SEP 10 | 97                         | 64  | 31  | 65                                |  |
|                           | 32                            | MAY 11                     | MAY 31 | JUN 19 | AUG 21                     | SEP 07 | SEP 23 | 127                        | 98  | 69  | 59                                |  |
|                           | 28                            | MAY 02                     | MAY 19 | JUN 05 | SEP 06                     | SEP 20 | OCT 04 | 145                        | 123 | 101 | 51                                |  |
| PHILIPSBURG RANGER STA    | 36                            | JUL 09                     | JUL 21 | AUG 02 | JUL 30                     | AUG 10 | AUG 22 | 38                         | 19  | 1   | 74                                |  |
|                           | 32                            | JUN 17                     | JUL 06 | JUL 24 | AUG 12                     | AUG 25 | SEP 07 | 70                         | 49  | 28  | 62                                |  |
|                           | 28                            | MAY 15                     | JUN 07 | JUN 30 | AUG 26                     | SEP 07 | SEP 19 | 119                        | 91  | 63  | 49                                |  |
| PLEVNA                    | 36                            | MAY 15                     | JUN 04 | JUN 24 | AUG 18                     | SEP 03 | SEP 18 | 113                        | 90  | 67  | 60                                |  |
|                           | 32                            | MAY 05                     | MAY 21 | JUN 06 | AUG 26                     | SEP 14 | OCT 03 | 141                        | 116 | 90  | 54                                |  |
|                           | 28                            | APR 25                     | MAY 09 | MAY 23 | SEP 07                     | SEP 24 | OCT 12 | 158                        | 137 | 117 | 47                                |  |
| POLEBRIDGE                | 36                            | JUL 17                     | JUL 26 | AUG 04 | JUL 30                     | AUG 06 | AUG 14 | 24                         | 10  | 0   | 78                                |  |
|                           | 32                            | JUN 25                     | JUL 15 | AUG 05 | JUL 30                     | AUG 11 | AUG 24 | 51                         | 26  | 1   | 66                                |  |
|                           | 28                            | MAY 20                     | JUN 16 | JUL 13 | AUG 17                     | SEP 02 | SEP 17 | 105                        | 77  | 50  | 52                                |  |
| POLSON KERR DAM           | 36                            | MAY 08                     | MAY 30 | JUN 22 | AUG 29                     | SEP 12 | SEP 26 | 127                        | 104 | 80  | 54                                |  |
|                           | 32                            | APR 23                     | MAY 14 | JUN 03 | SEP 14                     | SEP 28 | OCT 12 | 164                        | 137 | 109 | 43                                |  |
|                           | 28                            | APR 10                     | APR 25 | MAY 09 | SEP 24                     | OCT 11 | OCT 28 | 195                        | 169 | 143 | 31                                |  |
| POPLAR                    | 36                            | MAY 07                     | MAY 24 | JUN 10 | AUG 31                     | SEP 12 | SEP 25 | 132                        | 110 | 89  | 57                                |  |
|                           | 32                            | MAY 01                     | MAY 15 | MAY 29 | SEP 07                     | SEP 20 | OCT 03 | 146                        | 127 | 108 | 51                                |  |
|                           | 28                            | APR 20                     | MAY 04 | MAY 19 | SEP 11                     | SEP 27 | OCT 13 | 165                        | 145 | 125 | 44                                |  |
| RAPELJE 4 S               | 36                            | MAY 22                     | JUN 17 | JUL 12 | AUG 25                     | SEP 06 | SEP 18 | 110                        | 81  | 52  | 60                                |  |
|                           | 32                            | MAY 07                     | MAY 24 | JUN 09 | SEP 04                     | SEP 17 | OCT 01 | 137                        | 116 | 95  | 51                                |  |
|                           | 28                            | MAY 22                     | MAY 09 | MAY 25 | SEP 12                     | SEP 27 | OCT 13 | 161                        | 141 | 120 | 42                                |  |
| RAYMOND BORDER STATION    | 36                            | MAY 17                     | JUN 05 | JUN 24 | AUG 15                     | SEP 01 | SEP 18 | 112                        | 87  | 63  | 60                                |  |
|                           | 32                            | MAY 06                     | MAY 20 | JUN 04 | AUG 30                     | SEP 16 | OCT 04 | 142                        | 118 | 94  | 54                                |  |
|                           | 28                            | APR 25                     | MAY 11 | MAY 27 | SEP 07                     | SEP 24 | OCT 12 | 160                        | 135 | 110 | 47                                |  |
| RED LODGE                 | 36                            | JUN 04                     | JUN 24 | JUL 13 | AUG 17                     | AUG 31 | SEP 15 | 91                         | 68  | 45  | 61                                |  |
|                           | 32                            | MAY 17                     | JUN 09 | JUL 02 | AUG 28                     | SEP 13 | SEP 29 | 124                        | 95  | 66  | 52                                |  |
|                           | 28                            | APR 25                     | MAY 13 | JUN 01 | SEP 08                     | SEP 23 | OCT 07 | 151                        | 131 | 112 | 42                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|-----|-----|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |     |     |                                   |  |
|                           |                               | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50  | 90  |                                   |  |
| MONTANA                   |                               |                            |        |        |                            |        |        |                            |     |     |                                   |  |
| REDSTONE                  | 36                            | MAY 30                     | JUN 22 | JUL 16 | AUG 09                     | AUG 24 | SEP 08 | 89                         | 62  | 35  | 64                                |  |
|                           | 32                            | MAY 14                     | MAY 30 | JUN 16 | AUG 12                     | AUG 30 | SEP 18 | 118                        | 91  | 65  | 57                                |  |
|                           | 28                            | APR 30                     | MAY 16 | JUN 02 | SEP 03                     | SEP 14 | SEP 25 | 140                        | 120 | 101 | 49                                |  |
| ROCK SPRINGS              | 36                            | MAY 11                     | JUN 03 | JUN 27 | AUG 19                     | SEP 04 | SEP 21 | 119                        | 92  | 65  | 58                                |  |
|                           | 32                            | MAY 03                     | MAY 20 | JUN 06 | AUG 31                     | SEP 15 | OCT 01 | 140                        | 118 | 95  | 51                                |  |
|                           | 28                            | APR 20                     | MAY 07 | MAY 23 | SEP 10                     | SEP 26 | OCT 12 | 163                        | 142 | 120 | 43                                |  |
| ROUNDUP                   | 36                            | MAY 12                     | MAY 29 | JUN 15 | AUG 30                     | SEP 10 | SEP 21 | 123                        | 103 | 84  | 55                                |  |
|                           | 32                            | APR 28                     | MAY 14 | MAY 30 | SEP 01                     | SEP 17 | OCT 03 | 144                        | 125 | 106 | 47                                |  |
|                           | 28                            | APR 18                     | MAY 02 | MAY 15 | SEP 14                     | SEP 29 | OCT 14 | 167                        | 150 | 133 | 38                                |  |
| ROY B NE                  | 36                            | MAY 11                     | MAY 31 | JUN 20 | AUG 23                     | SEP 09 | SEP 25 | 129                        | 100 | 70  | 57                                |  |
|                           | 32                            | MAY 01                     | MAY 18 | JUN 04 | SEP 03                     | SEP 19 | OCT 05 | 142                        | 123 | 103 | 50                                |  |
|                           | 28                            | APR 19                     | MAY 03 | MAY 16 | SEP 11                     | SEP 27 | OCT 13 | 163                        | 147 | 131 | 41                                |  |
| SAINT IGNATIUS            | 36                            | MAY 26                     | JUN 16 | JUL 07 | AUG 27                     | SEP 07 | SEP 17 | 107                        | 82  | 56  | 57                                |  |
|                           | 32                            | MAY 08                     | MAY 24 | JUN 10 | SEP 03                     | SEP 19 | OCT 04 | 139                        | 117 | 95  | 45                                |  |
|                           | 28                            | APR 20                     | MAY 06 | MAY 21 | SEP 16                     | OCT 02 | OCT 17 | 172                        | 148 | 124 | 33                                |  |
| SAVAGE                    | 36                            | MAY 05                     | MAY 19 | JUN 03 | SEP 02                     | SEP 14 | SEP 26 | 135                        | 117 | 99  | 57                                |  |
|                           | 32                            | MAY 01                     | MAY 13 | MAY 26 | SEP 06                     | SEP 23 | OCT 09 | 151                        | 132 | 112 | 50                                |  |
|                           | 28                            | APR 20                     | MAY 04 | MAY 18 | SEP 16                     | OCT 02 | OCT 18 | 170                        | 150 | 130 | 42                                |  |
| SCOBAY                    | 36                            | MAY 12                     | MAY 29 | JUN 14 | AUG 18                     | SEP 06 | SEP 26 | 124                        | 100 | 76  | 59                                |  |
|                           | 32                            | MAY 02                     | MAY 18 | JUN 03 | AUG 29                     | SEP 15 | OCT 01 | 141                        | 119 | 98  | 52                                |  |
|                           | 28                            | APR 20                     | MAY 07 | MAY 24 | SEP 06                     | SEP 26 | OCT 15 | 167                        | 140 | 114 | 45                                |  |
| SEELEY LAKE RANGER STA    | 36                            | JUL 09                     | JUL 22 | AUG 04 | JUL 30                     | AUG 08 | AUG 18 | 34                         | 17  | 0   | 72                                |  |
|                           | 32                            | JUN 11                     | JUL 05 | JUL 28 | AUG 10                     | AUG 26 | SEP 10 | 81                         | 51  | 22  | 61                                |  |
|                           | 28                            | MAY 04                     | MAY 26 | JUN 17 | AUG 27                     | SEP 15 | OCT 03 | 139                        | 111 | 83  | 46                                |  |
| SIDNEY                    | 36                            | MAY 10                     | MAY 31 | JUN 21 | AUG 26                     | SEP 08 | SEP 22 | 122                        | 99  | 76  | 59                                |  |
|                           | 32                            | MAY 04                     | MAY 17 | MAY 29 | SEP 06                     | SEP 19 | OCT 01 | 142                        | 125 | 107 | 52                                |  |
|                           | 28                            | APR 22                     | MAY 07 | MAY 21 | SEP 12                     | SEP 26 | OCT 09 | 159                        | 141 | 124 | 45                                |  |
| SIMPSON 6 NW              | 36                            | MAY 23                     | JUN 17 | JUL 12 | AUG 10                     | AUG 28 | SEP 15 | 107                        | 72  | 36  | 63                                |  |
|                           | 32                            | MAY 06                     | MAY 28 | JUN 20 | AUG 26                     | SEP 08 | SEP 22 | 127                        | 102 | 77  | 56                                |  |
|                           | 28                            | APR 28                     | MAY 14 | MAY 29 | SEP 06                     | SEP 19 | OCT 01 | 147                        | 127 | 107 | 47                                |  |
| STANFORD 1 WNW            | 36                            | JUN 02                     | JUN 24 | JUL 16 | AUG 18                     | AUG 30 | SEP 12 | 92                         | 66  | 40  | 61                                |  |
|                           | 32                            | MAY 16                     | JUN 03 | JUN 20 | AUG 28                     | SEP 11 | SEP 24 | 122                        | 99  | 76  | 51                                |  |
|                           | 28                            | MAY 01                     | MAY 15 | MAY 29 | SEP 08                     | SEP 23 | OCT 08 | 151                        | 130 | 109 | 41                                |  |
| STEVENSVILLE              | 36                            | JUN 04                     | JUN 23 | JUL 13 | AUG 15                     | AUG 26 | SEP 05 | 85                         | 63  | 40  | 62                                |  |
|                           | 32                            | MAY 11                     | JUN 01 | JUN 23 | AUG 27                     | SEP 07 | SEP 19 | 121                        | 97  | 74  | 51                                |  |
|                           | 28                            | APR 29                     | MAY 19 | JUN 07 | SEP 06                     | SEP 22 | OCT 08 | 151                        | 125 | 100 | 39                                |  |
| SUPERIOR                  | 36                            | MAY 24                     | JUN 18 | JUL 13 | AUG 17                     | SEP 03 | SEP 20 | 111                        | 76  | 42  | 59                                |  |
|                           | 32                            | MAY 06                     | MAY 22 | JUN 07 | SEP 04                     | SEP 18 | OCT 02 | 136                        | 118 | 100 | 46                                |  |
|                           | 28                            | APR 20                     | MAY 05 | MAY 20 | SEP 14                     | OCT 04 | OCT 25 | 177                        | 151 | 126 | 32                                |  |
| TERRY                     | 36                            | MAY 09                     | MAY 26 | JUN 12 | AUG 24                     | SEP 09 | SEP 25 | 125                        | 105 | 85  | 58                                |  |
|                           | 32                            | APR 30                     | MAY 14 | MAY 28 | SEP 06                     | SEP 18 | SEP 30 | 143                        | 126 | 109 | 52                                |  |
|                           | 28                            | APR 19                     | MAY 03 | MAY 17 | SEP 09                     | SEP 26 | OCT 13 | 170                        | 146 | 122 | 45                                |  |
| THOMPSON FALLS PH         | 36                            | MAY 17                     | JUN 08 | JUN 30 | AUG 29                     | SEP 11 | SEP 25 | 121                        | 94  | 67  | 57                                |  |
|                           | 32                            | MAY 01                     | MAY 16 | JUN 01 | SEP 07                     | SEP 24 | OCT 10 | 154                        | 130 | 105 | 45                                |  |
|                           | 28                            | APR 19                     | MAY 04 | MAY 19 | SEP 17                     | OCT 07 | OCT 27 | 181                        | 156 | 131 | 29                                |  |
| TOWNSEND                  | 36                            | MAY 26                     | JUN 17 | JUL 09 | AUG 21                     | SEP 03 | SEP 15 | 101                        | 77  | 53  | 62                                |  |
|                           | 32                            | MAY 12                     | MAY 28 | JUN 12 | AUG 27                     | SEP 11 | SEP 26 | 128                        | 106 | 84  | 53                                |  |
|                           | 28                            | APR 25                     | MAY 10 | MAY 24 | SEP 07                     | SEP 24 | OCT 11 | 161                        | 137 | 112 | 43                                |  |
| TRIDENT                   | 36                            | MAY 20                     | JUN 08 | JUN 27 | AUG 28                     | SEP 08 | SEP 20 | 114                        | 91  | 68  | 58                                |  |
|                           | 32                            | MAY 01                     | MAY 17 | JUN 02 | SEP 04                     | SEP 18 | OCT 02 | 146                        | 123 | 100 | 49                                |  |
|                           | 28                            | APR 20                     | MAY 02 | MAY 13 | SEP 13                     | SEP 28 | OCT 13 | 169                        | 149 | 128 | 38                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| MONTANA                   |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| TROUT CREEK RANGER STA    | 36                            | JUL 05                  | JUL 18 | AUG 01 | JUL 31                  | AUG 15 | AUG 30 | 49                      | 27  | 5   | 67                                |  |
|                           | 32                            | MAY 23                  | JUN 19 | JUL 16 | AUG 17                  | SEP 01 | SEP 16 | 105                     | 74  | 43  | 53                                |  |
|                           | 28                            | MAY 04                  | MAY 23 | JUN 11 | AUG 29                  | SEP 17 | OCT 05 | 141                     | 116 | 91  | 37                                |  |
| TURNER                    | 36                            | MAY 24                  | JUN 06 | JUN 19 | AUG 14                  | SEP 02 | SEP 21 | 109                     | 87  | 66  | 60                                |  |
|                           | 32                            | MAY 09                  | MAY 24 | JUN 08 | SEP 03                  | SEP 16 | SEP 28 | 133                     | 114 | 96  | 53                                |  |
|                           | 28                            | APR 25                  | MAY 10 | MAY 24 | SEP 09                  | SEP 25 | OCT 11 | 158                     | 137 | 117 | 45                                |  |
| VALIER                    | 36                            | MAY 21                  | JUN 13 | JUL 07 | AUG 27                  | SEP 08 | SEP 21 | 112                     | 85  | 60  | 57                                |  |
|                           | 32                            | MAY 01                  | MAY 22 | JUN 12 | SEP 04                  | SEP 18 | OCT 02 | 146                     | 118 | 91  | 49                                |  |
|                           | 28                            | APR 26                  | MAY 07 | MAY 19 | SEP 12                  | SEP 29 | OCT 15 | 164                     | 144 | 124 | 40                                |  |
| VIOA                      | 36                            | MAY 08                  | MAY 21 | JUN 04 | AUG 28                  | SEP 12 | SEP 27 | 135                     | 113 | 91  | 56                                |  |
|                           | 32                            | APR 28                  | MAY 14 | MAY 30 | SEP 05                  | SEP 20 | OCT 05 | 149                     | 129 | 108 | 49                                |  |
|                           | 28                            | APR 16                  | MAY 03 | MAY 19 | SEP 15                  | OCT 01 | OCT 17 | 170                     | 151 | 131 | 42                                |  |
| VIRGINIA CITY             | 36                            | JUN 14                  | JUN 30 | JUL 15 | AUG 14                  | AUG 27 | SEP 09 | 78                      | 58  | 37  | 64                                |  |
|                           | 32                            | MAY 26                  | JUN 15 | JUL 06 | AUG 19                  | SEP 07 | SEP 25 | 111                     | 83  | 54  | 56                                |  |
|                           | 28                            | MAY 01                  | MAY 26 | JUN 20 | SEP 02                  | SEP 18 | OCT 04 | 142                     | 114 | 86  | 46                                |  |
| WESTBY                    | 36                            | MAY 12                  | MAY 27 | JUN 12 | AUG 18                  | SEP 05 | SEP 23 | 126                     | 100 | 74  | 59                                |  |
|                           | 32                            | MAY 01                  | MAY 17 | JUN 02 | SEP 04                  | SEP 18 | OCT 02 | 147                     | 123 | 99  | 53                                |  |
|                           | 28                            | APR 23                  | MAY 07 | MAY 21 | SEP 09                  | SEP 25 | OCT 12 | 160                     | 141 | 122 | 47                                |  |
| WEST GLACIER              | 36                            | JUN 06                  | JUN 29 | JUL 22 | AUG 14                  | AUG 28 | SEP 12 | 88                      | 60  | 31  | 64                                |  |
|                           | 32                            | MAY 15                  | JUN 06 | JUN 27 | AUG 31                  | SEP 12 | SEP 25 | 125                     | 98  | 71  | 54                                |  |
|                           | 28                            | APR 26                  | MAY 13 | MAY 31 | SEP 12                  | SEP 28 | OCT 14 | 162                     | 137 | 112 | 38                                |  |
| WEST YELLOWSTONE          | 36                            | JUL 11                  | JUL 22 | AUG 03 | AUG 01                  | AUG 06 | AUG 11 | 26                      | 14  | 1   | 82                                |  |
|                           | 32                            | JUN 23                  | JUL 08 | JUL 22 | AUG 03                  | AUG 18 | SEP 02 | 62                      | 41  | 19  | 73                                |  |
|                           | 28                            | JUN 03                  | JUN 23 | JUL 13 | AUG 16                  | AUG 30 | SEP 13 | 90                      | 67  | 44  | 63                                |  |
| WIBAUX 2 E                | 36                            | MAY 23                  | JUN 17 | JUL 11 | AUG 12                  | AUG 28 | SEP 12 | 100                     | 72  | 43  | 62                                |  |
|                           | 32                            | MAY 05                  | MAY 23 | JUN 09 | AUG 21                  | SEP 08 | SEP 26 | 134                     | 108 | 81  | 55                                |  |
|                           | 28                            | APR 25                  | MAY 12 | MAY 29 | SEP 06                  | SEP 23 | OCT 10 | 157                     | 133 | 108 | 47                                |  |
| WINIFRED                  | 36                            | MAY 20                  | JUN 13 | JUL 06 | AUG 17                  | SEP 01 | SEP 16 | 109                     | 80  | 50  | 60                                |  |
|                           | 32                            | MAY 04                  | MAY 21 | JUN 07 | SEP 02                  | SEP 13 | SEP 24 | 137                     | 114 | 92  | 52                                |  |
|                           | 28                            | APR 28                  | MAY 10 | MAY 22 | SEP 07                  | SEP 22 | OCT 08 | 152                     | 135 | 117 | 43                                |  |
| WISDOM                    | 36                            | JUL 22                  | JUL 29 | AUG 05 | JUL 31                  | AUG 02 | AUG 04 | 11                      | 3   | 0   | 86                                |  |
|                           | 32                            | JUL 08                  | JUL 21 | AUG 04 | JUL 31                  | AUG 05 | AUG 12 | 31                      | 14  | 0   | 76                                |  |
|                           | 28                            | MAY 29                  | JUN 29 | JUL 31 | AUG 05                  | AUG 18 | AUG 31 | 83                      | 49  | 14  | 64                                |  |
| WYOLA                     | 36                            | JUN 01                  | JUN 23 | JUL 14 | AUG 20                  | SEP 03 | SEP 17 | 99                      | 72  | 45  | 61                                |  |
|                           | 32                            | MAY 12                  | MAY 29 | JUN 14 | AUG 23                  | SEP 12 | OCT 01 | 134                     | 105 | 76  | 53                                |  |
|                           | 28                            | APR 23                  | MAY 08 | MAY 23 | SEP 09                  | SEP 23 | OCT 07 | 157                     | 137 | 117 | 43                                |  |
| NEBRASKA                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| AINSWORTH                 | 36                            | MAY 01                  | MAY 16 | MAY 31 | SEP 10                  | SEP 24 | OCT 09 | 151                     | 131 | 110 | 49                                |  |
|                           | 32                            | APR 20                  | MAY 06 | MAY 21 | SEP 24                  | OCT 08 | OCT 22 | 177                     | 155 | 132 | 43                                |  |
|                           | 28                            | APR 09                  | APR 25 | MAY 11 | OCT 04                  | OCT 18 | NOV 01 | 195                     | 175 | 156 | 35                                |  |
| ALBION                    | 36                            | MAY 01                  | MAY 15 | MAY 28 | SEP 10                  | SEP 23 | OCT 07 | 149                     | 131 | 113 | 51                                |  |
|                           | 32                            | APR 25                  | MAY 06 | MAY 17 | SEP 18                  | OCT 02 | OCT 16 | 163                     | 148 | 132 | 45                                |  |
|                           | 28                            | APR 11                  | APR 28 | MAY 15 | SEP 27                  | OCT 11 | OCT 25 | 188                     | 165 | 142 | 39                                |  |
| ALLIANCE                  | 36                            | MAY 06                  | MAY 22 | JUN 07 | SEP 04                  | SEP 16 | SEP 28 | 133                     | 116 | 99  | 55                                |  |
|                           | 32                            | APR 28                  | MAY 13 | MAY 29 | SEP 14                  | SEP 25 | OCT 07 | 151                     | 134 | 117 | 48                                |  |
|                           | 28                            | APR 12                  | APR 27 | MAY 13 | SEP 20                  | OCT 04 | OCT 18 | 177                     | 159 | 141 | 40                                |  |
| ARTHUR                    | 36                            | MAY 08                  | MAY 24 | JUN 09 | SEP 02                  | SEP 15 | SEP 28 | 132                     | 114 | 95  | 55                                |  |
|                           | 32                            | APR 30                  | MAY 16 | MAY 31 | SEP 09                  | SEP 23 | OCT 08 | 151                     | 130 | 110 | 50                                |  |
|                           | 28                            | APR 24                  | MAY 06 | MAY 17 | SEP 18                  | OCT 03 | OCT 18 | 167                     | 150 | 132 | 42                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| NEBRASKA                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| ASHLAND 3 NE              | 36                            | APR 27                  | MAY 08 | MAY 19 | SEP 14                  | SEP 30 | OCT 15 | 159                     | 144 | 129 | 46                                |  |
|                           | 32                            | APR 16                  | APR 30 | MAY 15 | SEP 24                  | OCT 07 | OCT 20 | 178                     | 159 | 140 | 41                                |  |
|                           | 28                            | APR 05                  | APR 17 | APR 28 | OCT 07                  | OCT 20 | NOV 03 | 204                     | 186 | 168 | 34                                |  |
| ATKINSON                  | 36                            | MAY 01                  | MAY 13 | MAY 26 | SEP 10                  | SEP 25 | OCT 10 | 154                     | 134 | 114 | 50                                |  |
|                           | 32                            | APR 21                  | MAY 05 | MAY 19 | SEP 20                  | OCT 04 | OCT 18 | 173                     | 152 | 130 | 44                                |  |
|                           | 28                            | APR 08                  | APR 25 | MAY 13 | SEP 29                  | OCT 15 | OCT 31 | 194                     | 172 | 150 | 36                                |  |
| AUBURN                    | 36                            | APR 22                  | MAY 05 | MAY 18 | SEP 18                  | OCT 01 | OCT 14 | 166                     | 148 | 131 | 43                                |  |
|                           | 32                            | APR 10                  | APR 24 | MAY 07 | SEP 25                  | OCT 10 | OCT 24 | 190                     | 169 | 147 | 37                                |  |
|                           | 28                            | MAR 29                  | APR 12 | APR 26 | OCT 10                  | OCT 24 | NOV 07 | 214                     | 194 | 174 | 29                                |  |
| BEATRICE NO 1             | 36                            | APR 20                  | MAY 05 | MAY 19 | SEP 19                  | OCT 05 | OCT 20 | 171                     | 153 | 134 | 43                                |  |
|                           | 32                            | APR 08                  | APR 23 | MAY 08 | SEP 29                  | OCT 12 | OCT 26 | 194                     | 172 | 150 | 37                                |  |
|                           | 28                            | MAR 29                  | APR 11 | APR 24 | OCT 12                  | OCT 25 | NOV 06 | 213                     | 196 | 179 | 29                                |  |
| BEAVER CITY               | 36                            | MAY 03                  | MAY 16 | MAY 28 | SEP 08                  | SEP 23 | OCT 07 | 146                     | 129 | 113 | 49                                |  |
|                           | 32                            | APR 19                  | MAY 05 | MAY 20 | SEP 14                  | OCT 01 | OCT 17 | 172                     | 148 | 125 | 44                                |  |
|                           | 28                            | APR 07                  | APR 25 | MAY 13 | SEP 27                  | OCT 12 | OCT 28 | 193                     | 170 | 147 | 36                                |  |
| BENKELMAN                 | 36                            | MAY 02                  | MAY 16 | MAY 29 | SEP 11                  | SEP 24 | OCT 06 | 150                     | 130 | 110 | 51                                |  |
|                           | 32                            | APR 21                  | MAY 05 | MAY 19 | SEP 17                  | OCT 04 | OCT 21 | 175                     | 151 | 128 | 46                                |  |
|                           | 28                            | APR 09                  | APR 24 | MAY 10 | SEP 30                  | OCT 15 | OCT 29 | 195                     | 173 | 150 | 38                                |  |
| BIG SPRINGS               | 36                            | MAY 03                  | MAY 18 | JUN 01 | SEP 03                  | SEP 19 | OCT 06 | 146                     | 124 | 101 | 53                                |  |
|                           | 32                            | APR 22                  | MAY 08 | MAY 23 | SEP 18                  | OCT 01 | OCT 15 | 168                     | 146 | 124 | 46                                |  |
|                           | 28                            | APR 08                  | APR 23 | MAY 08 | SEP 28                  | OCT 12 | OCT 25 | 192                     | 171 | 151 | 39                                |  |
| BLAIR                     | 36                            | APR 24                  | MAY 07 | MAY 21 | SEP 16                  | OCT 01 | OCT 15 | 164                     | 146 | 127 | 46                                |  |
|                           | 32                            | APR 14                  | APR 27 | MAY 09 | SEP 26                  | OCT 10 | OCT 23 | 185                     | 165 | 145 | 40                                |  |
|                           | 28                            | MAR 30                  | APR 13 | APR 28 | OCT 07                  | OCT 22 | NOV 06 | 212                     | 191 | 170 | 32                                |  |
| BOX BUTTE EXP STATION     | 36                            | MAY 09                  | MAY 25 | JUN 09 | SEP 02                  | SEP 13 | SEP 23 | 126                     | 110 | 94  | 57                                |  |
|                           | 32                            | MAY 02                  | MAY 16 | MAY 30 | SEP 10                  | SEP 23 | OCT 06 | 146                     | 129 | 112 | 50                                |  |
|                           | 28                            | APR 16                  | MAY 01 | MAY 16 | SEP 18                  | OCT 03 | OCT 18 | 179                     | 154 | 129 | 42                                |  |
| BRIDGEPORT                | 36                            | MAY 09                  | MAY 22 | JUN 05 | SEP 02                  | SEP 14 | SEP 27 | 129                     | 114 | 99  | 55                                |  |
|                           | 32                            | MAY 02                  | MAY 17 | MAY 31 | SEP 12                  | SEP 26 | OCT 09 | 151                     | 131 | 111 | 49                                |  |
|                           | 28                            | APR 14                  | APR 30 | MAY 17 | SEP 18                  | OCT 02 | OCT 15 | 174                     | 154 | 133 | 41                                |  |
| BROKEN BOW 2 W            | 36                            | MAY 07                  | MAY 22 | JUN 06 | AUG 31                  | SEP 15 | SEP 30 | 136                     | 115 | 95  | 52                                |  |
|                           | 32                            | MAY 01                  | MAY 15 | MAY 29 | SEP 07                  | SEP 22 | OCT 07 | 148                     | 129 | 110 | 47                                |  |
|                           | 28                            | APR 19                  | MAY 06 | MAY 22 | SEP 14                  | OCT 02 | OCT 19 | 170                     | 148 | 126 | 40                                |  |
| BUTTE                     | 36                            | MAY 02                  | MAY 18 | JUN 03 | SEP 11                  | SEP 23 | OCT 05 | 148                     | 128 | 107 | 50                                |  |
|                           | 32                            | APR 24                  | MAY 07 | MAY 20 | SEP 17                  | OCT 02 | OCT 18 | 166                     | 147 | 128 | 44                                |  |
|                           | 28                            | APR 07                  | APR 25 | MAY 12 | SEP 30                  | OCT 14 | OCT 28 | 191                     | 172 | 153 | 36                                |  |
| CAMBRIDGE                 | 36                            | APR 26                  | MAY 12 | MAY 28 | SEP 10                  | SEP 26 | OCT 11 | 157                     | 136 | 114 | 49                                |  |
|                           | 32                            | APR 18                  | MAY 02 | MAY 16 | SEP 18                  | OCT 03 | OCT 19 | 174                     | 153 | 133 | 43                                |  |
|                           | 28                            | APR 04                  | APR 22 | MAY 10 | SEP 29                  | OCT 12 | OCT 25 | 197                     | 172 | 148 | 37                                |  |
| CENTRAL CITY              | 36                            | APR 27                  | MAY 09 | MAY 21 | SEP 10                  | SEP 27 | OCT 13 | 160                     | 140 | 120 | 46                                |  |
|                           | 32                            | APR 13                  | APR 29 | MAY 16 | SEP 27                  | OCT 10 | OCT 23 | 186                     | 163 | 140 | 40                                |  |
|                           | 28                            | APR 03                  | APR 18 | MAY 03 | OCT 06                  | OCT 18 | OCT 30 | 203                     | 182 | 161 | 33                                |  |
| CHADRON FAA AIRPORT       | 36                            | MAY 10                  | MAY 24 | JUN 08 | SEP 03                  | SEP 15 | SEP 27 | 131                     | 113 | 95  | 55                                |  |
|                           | 32                            | MAY 01                  | MAY 15 | MAY 29 | SEP 12                  | SEP 25 | OCT 08 | 150                     | 132 | 114 | 48                                |  |
|                           | 28                            | APR 14                  | APR 30 | MAY 16 | SEP 17                  | OCT 03 | OCT 18 | 176                     | 155 | 134 | 40                                |  |
| CLARKSON                  | 36                            | APR 27                  | MAY 11 | MAY 24 | SEP 12                  | SEP 27 | OCT 11 | 156                     | 138 | 120 | 48                                |  |
|                           | 32                            | APR 17                  | MAY 03 | MAY 18 | SEP 16                  | OCT 01 | OCT 16 | 170                     | 150 | 130 | 43                                |  |
|                           | 28                            | APR 13                  | APR 29 | MAY 15 | SEP 25                  | OCT 11 | OCT 26 | 184                     | 164 | 144 | 36                                |  |
| COLUMBUS 3 NE             | 36                            | APR 22                  | MAY 06 | MAY 20 | SEP 16                  | SEP 30 | OCT 15 | 166                     | 147 | 128 | 46                                |  |
|                           | 32                            | APR 14                  | APR 30 | MAY 16 | SEP 24                  | OCT 07 | OCT 19 | 177                     | 159 | 142 | 41                                |  |
|                           | 28                            | APR 02                  | APR 16 | APR 30 | OCT 04                  | OCT 19 | NOV 02 | 205                     | 185 | 165 | 33                                |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| NEBRASKA                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| CRESCENT LAKE NATL WLR    | 36                            | MAY 11                  | MAY 25 | JUN 08 | AUG 31                  | SEP 12 | SEP 25 | 129                     | 109 | 90  | 56                                |  |
|                           | 32                            | APR 29                  | MAY 15 | MAY 30 | SEP 07                  | SEP 20 | OCT 02 | 145                     | 127 | 110 | 50                                |  |
|                           | 28                            | APR 16                  | MAY 01 | MAY 17 | SEP 15                  | OCT 01 | OCT 16 | 174                     | 152 | 129 | 42                                |  |
| CRETE                     | 36                            | APR 19                  | MAY 04 | MAY 18 | SEP 17                  | OCT 03 | OCT 18 | 169                     | 151 | 133 | 44                                |  |
|                           | 32                            | APR 10                  | APR 25 | MAY 11 | SEP 27                  | OCT 10 | OCT 23 | 187                     | 167 | 147 | 38                                |  |
|                           | 28                            | APR 01                  | APR 16 | MAY 01 | OCT 10                  | OCT 22 | NOV 03 | 207                     | 189 | 170 | 30                                |  |
| CULBERTSON                | 36                            | MAY 01                  | MAY 16 | MAY 31 | SEP 10                  | SEP 24 | OCT 07 | 150                     | 130 | 110 | 53                                |  |
|                           | 32                            | APR 21                  | MAY 07 | MAY 23 | SEP 14                  | OCT 01 | OCT 18 | 169                     | 146 | 123 | 47                                |  |
|                           | 28                            | APR 09                  | APR 26 | MAY 12 | SEP 25                  | OCT 10 | OCT 26 | 193                     | 167 | 142 | 40                                |  |
| CURTIS                    | 36                            | MAY 07                  | MAY 20 | JUN 03 | SEP 01                  | SEP 16 | OCT 02 | 136                     | 118 | 101 | 53                                |  |
|                           | 32                            | APR 27                  | MAY 12 | MAY 26 | SEP 09                  | SEP 25 | OCT 10 | 157                     | 135 | 114 | 47                                |  |
|                           | 28                            | APR 18                  | MAY 01 | MAY 14 | SEP 19                  | OCT 04 | OCT 20 | 176                     | 155 | 135 | 41                                |  |
| DAVID CITY                | 36                            | APR 18                  | MAY 03 | MAY 19 | SEP 18                  | OCT 02 | OCT 15 | 174                     | 151 | 128 | 46                                |  |
|                           | 32                            | APR 10                  | APR 26 | MAY 13 | SEP 27                  | OCT 11 | OCT 25 | 189                     | 167 | 145 | 40                                |  |
|                           | 28                            | APR 03                  | APR 18 | MAY 02 | OCT 07                  | OCT 21 | NOV 05 | 204                     | 186 | 168 | 33                                |  |
| EWING                     | 36                            | MAY 04                  | MAY 17 | MAY 31 | SEP 08                  | SEP 19 | SEP 30 | 141                     | 124 | 107 | 50                                |  |
|                           | 32                            | APR 26                  | MAY 10 | MAY 23 | SEP 11                  | SEP 26 | OCT 11 | 160                     | 139 | 117 | 45                                |  |
|                           | 28                            | APR 11                  | APR 29 | MAY 17 | SEP 20                  | OCT 04 | OCT 19 | 182                     | 158 | 134 | 38                                |  |
| FAIRBURY 2 SSE            | 36                            | APR 25                  | MAY 07 | MAY 18 | SEP 16                  | OCT 01 | OCT 15 | 163                     | 146 | 130 | 46                                |  |
|                           | 32                            | APR 12                  | APR 27 | MAY 12 | SEP 27                  | OCT 09 | OCT 22 | 183                     | 165 | 147 | 41                                |  |
|                           | 28                            | APR 03                  | APR 16 | APR 29 | OCT 11                  | OCT 22 | NOV 02 | 204                     | 188 | 173 | 34                                |  |
| FAIRMONT                  | 36                            | APR 26                  | MAY 09 | MAY 22 | SEP 17                  | OCT 02 | OCT 17 | 164                     | 146 | 127 | 45                                |  |
|                           | 32                            | APR 10                  | APR 27 | MAY 13 | OCT 01                  | OCT 14 | OCT 27 | 189                     | 170 | 150 | 39                                |  |
|                           | 28                            | APR 02                  | APR 18 | MAY 03 | OCT 10                  | OCT 21 | NOV 01 | 202                     | 185 | 168 | 32                                |  |
| FALLS CITY                | 36                            | APR 14                  | APR 27 | MAY 09 | SEP 25                  | OCT 08 | OCT 20 | 182                     | 164 | 145 | 41                                |  |
|                           | 32                            | APR 07                  | APR 20 | MAY 03 | OCT 03                  | OCT 16 | OCT 30 | 198                     | 179 | 159 | 34                                |  |
|                           | 28                            | MAR 23                  | APR 06 | APR 20 | OCT 15                  | OCT 29 | NOV 11 | 225                     | 205 | 185 | 26                                |  |
| FRANKLIN                  | 36                            | APR 29                  | MAY 09 | MAY 19 | SEP 13                  | SEP 29 | OCT 14 | 158                     | 142 | 125 | 47                                |  |
|                           | 32                            | APR 17                  | MAY 02 | MAY 16 | SEP 22                  | OCT 07 | OCT 21 | 177                     | 157 | 138 | 41                                |  |
|                           | 28                            | APR 03                  | APR 18 | MAY 03 | OCT 03                  | OCT 18 | NOV 02 | 202                     | 183 | 164 | 34                                |  |
| FREMONT                   | 36                            | APR 22                  | MAY 05 | MAY 18 | SEP 14                  | SEP 29 | OCT 13 | 163                     | 146 | 130 | 45                                |  |
|                           | 32                            | APR 13                  | APR 27 | MAY 12 | SEP 23                  | OCT 08 | OCT 23 | 183                     | 163 | 143 | 39                                |  |
|                           | 28                            | APR 02                  | APR 14 | APR 27 | OCT 04                  | OCT 18 | NOV 01 | 206                     | 186 | 166 | 31                                |  |
| GENEVA                    | 36                            | APR 23                  | MAY 06 | MAY 20 | SEP 20                  | OCT 05 | OCT 19 | 170                     | 150 | 131 | 45                                |  |
|                           | 32                            | APR 11                  | APR 26 | MAY 11 | OCT 02                  | OCT 15 | OCT 28 | 191                     | 171 | 151 | 39                                |  |
|                           | 28                            | MAR 31                  | APR 15 | APR 30 | OCT 11                  | OCT 24 | NOV 05 | 210                     | 191 | 171 | 31                                |  |
| GENOA 2 W                 | 36                            | APR 30                  | MAY 14 | MAY 28 | SEP 11                  | SEP 25 | OCT 09 | 153                     | 134 | 114 | 48                                |  |
|                           | 32                            | APR 20                  | MAY 05 | MAY 19 | SEP 19                  | OCT 03 | OCT 18 | 172                     | 151 | 130 | 43                                |  |
|                           | 28                            | APR 12                  | APR 28 | MAY 14 | SEP 27                  | OCT 11 | OCT 24 | 184                     | 165 | 146 | 36                                |  |
| GOTHENBURG                | 36                            | MAY 01                  | MAY 13 | MAY 25 | SEP 08                  | SEP 25 | OCT 13 | 155                     | 134 | 114 | 50                                |  |
|                           | 32                            | APR 19                  | MAY 03 | MAY 16 | SEP 17                  | OCT 03 | OCT 20 | 173                     | 153 | 132 | 43                                |  |
|                           | 28                            | APR 11                  | APR 24 | MAY 06 | OCT 01                  | OCT 15 | OCT 28 | 194                     | 173 | 153 | 36                                |  |
| GRAND ISLAND WSO          | 36                            | APR 24                  | MAY 08 | MAY 21 | SEP 12                  | SEP 28 | OCT 14 | 164                     | 143 | 121 | 48                                |  |
|                           | 32                            | APR 12                  | APR 29 | MAY 16 | SEP 26                  | OCT 09 | OCT 22 | 185                     | 162 | 140 | 41                                |  |
|                           | 28                            | APR 02                  | APR 19 | MAY 05 | OCT 06                  | OCT 20 | NOV 02 | 203                     | 183 | 163 | 34                                |  |
| HALSEY 2 W                | 36                            | MAY 01                  | MAY 24 | JUN 16 | AUG 29                  | SEP 13 | SEP 29 | 137                     | 111 | 86  | 53                                |  |
|                           | 32                            | APR 27                  | MAY 11 | MAY 25 | SEP 10                  | SEP 26 | OCT 12 | 157                     | 137 | 117 | 47                                |  |
|                           | 28                            | APR 14                  | MAY 01 | MAY 17 | SEP 18                  | OCT 05 | OCT 21 | 179                     | 156 | 134 | 40                                |  |
| HARLAN COUNTY DAM         | 36                            | APR 27                  | MAY 10 | MAY 22 | SEP 16                  | OCT 01 | OCT 16 | 165                     | 144 | 122 | 48                                |  |
|                           | 32                            | APR 13                  | APR 29 | MAY 16 | SEP 23                  | OCT 08 | OCT 23 | 182                     | 161 | 140 | 43                                |  |
|                           | 28                            | APR 04                  | APR 19 | MAY 04 | OCT 09                  | OCT 21 | NOV 01 | 203                     | 184 | 165 | 36                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP. THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|--------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                                | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                                | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| NEBRASKA                  |                                |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| HARRISON                  | 36<br>32<br>28                 | MAY 19<br>MAY 07<br>APR 26 | JUN 04<br>MAY 23<br>MAY 12 | JUN 19<br>JUN 08<br>MAY 28 | AUG 26<br>SEP 05<br>SEP 12 | SEP 10<br>SEP 19<br>SEP 26 | SEP 25<br>OCT 02<br>OCT 10 | 118<br>139<br>157       | 97<br>118<br>137  | 77<br>97<br>116   | 60<br>53<br>45                    |  |
| HARTINGTON                | 36<br>32<br>28                 | MAY 01<br>APR 19<br>APR 10 | MAY 11<br>MAY 04<br>APR 26 | MAY 21<br>MAY 19<br>MAY 13 | SEP 11<br>SEP 22<br>OCT 01 | SEP 26<br>OCT 06<br>OCT 15 | OCT 12<br>OCT 20<br>OCT 29 | 153<br>174<br>192       | 137<br>154<br>171 | 122<br>134<br>150 | 48<br>43<br>35                    |  |
| HASTINGS                  | 36<br>32<br>28                 | APR 18<br>APR 11<br>MAR 28 | MAY 05<br>APR 25<br>APR 14 | MAY 21<br>MAY 08<br>MAY 01 | SEP 17<br>OCT 02<br>OCT 10 | OCT 02<br>OCT 14<br>OCT 24 | OCT 17<br>OCT 26<br>NOV 06 | 174<br>189<br>212       | 150<br>172<br>192 | 126<br>155<br>171 | 46<br>39<br>32                    |  |
| HAYES CENTER              | 36<br>32<br>28                 | APR 29<br>APR 17<br>APR 08 | MAY 11<br>APR 30<br>APR 22 | MAY 22<br>MAY 12<br>MAY 06 | SEP 16<br>SEP 25<br>OCT 10 | SEP 29<br>OCT 10<br>OCT 22 | OCT 13<br>OCT 25<br>NOV 04 | 159<br>181<br>202       | 141<br>163<br>183 | 123<br>144<br>164 | 50<br>43<br>36                    |  |
| HAY SPRINGS               | 36<br>32<br>28                 | MAY 11<br>APR 30<br>APR 14 | MAY 30<br>MAY 15<br>MAY 03 | JUN 17<br>MAY 29<br>MAY 22 | SEP 03<br>SEP 10<br>SEP 17 | SEP 14<br>SEP 23<br>OCT 02 | SEP 26<br>OCT 06<br>OCT 16 | 126<br>148<br>174       | 107<br>131<br>151 | 88<br>114<br>128  | 56<br>50<br>41                    |  |
| HEBRON                    | 36<br>32<br>28                 | APR 23<br>APR 11<br>APR 01 | MAY 06<br>APR 28<br>APR 16 | MAY 18<br>MAY 16<br>MAY 02 | SEP 19<br>SEP 27<br>OCT 08 | OCT 01<br>OCT 10<br>OCT 22 | OCT 14<br>OCT 23<br>NOV 04 | 164<br>182<br>209       | 148<br>164<br>188 | 132<br>146<br>167 | 45<br>39<br>32                    |  |
| HOLDREGE 3 SW             | 36<br>32<br>28                 | APR 26<br>APR 12<br>APR 02 | MAY 07<br>APR 27<br>APR 16 | MAY 18<br>MAY 11<br>MAY 01 | SEP 17<br>SEP 25<br>OCT 08 | OCT 03<br>OCT 11<br>OCT 23 | OCT 19<br>OCT 27<br>NOV 06 | 169<br>190<br>211       | 148<br>166<br>188 | 127<br>143<br>166 | 46<br>40<br>33                    |  |
| IMPERIAL                  | 36<br>32<br>28                 | MAY 03<br>APR 21<br>APR 09 | MAY 15<br>MAY 03<br>APR 22 | MAY 28<br>MAY 14<br>MAY 06 | SEP 13<br>SEP 22<br>OCT 06 | SEP 25<br>OCT 04<br>OCT 17 | OCT 07<br>OCT 16<br>OCT 28 | 148<br>171<br>194       | 132<br>154<br>177 | 115<br>136<br>160 | 50<br>44<br>36                    |  |
| KEARNEY                   | 36<br>32<br>28                 | APR 26<br>APR 13<br>APR 03 | MAY 07<br>APR 28<br>APR 18 | MAY 18<br>MAY 13<br>MAY 03 | SEP 16<br>SEP 22<br>OCT 05 | OCT 01<br>OCT 08<br>OCT 20 | OCT 15<br>OCT 23<br>NOV 03 | 163<br>185<br>205       | 146<br>162<br>184 | 129<br>139<br>162 | 49<br>43<br>36                    |  |
| KIMBALL                   | 36<br>32<br>28                 | MAY 10<br>APR 30<br>APR 19 | MAY 24<br>MAY 14<br>APR 30 | JUN 07<br>MAY 27<br>MAY 12 | SEP 02<br>SEP 13<br>SEP 20 | SEP 15<br>SEP 26<br>OCT 04 | SEP 29<br>OCT 10<br>OCT 17 | 131<br>153<br>173       | 114<br>135<br>156 | 96<br>116<br>138  | 56<br>49<br>40                    |  |
| KINGSLEY DAM              | 36<br>32<br>28                 | APR 26<br>APR 14<br>APR 04 | MAY 09<br>APR 27<br>APR 21 | MAY 22<br>MAY 10<br>MAY 07 | SEP 11<br>SEP 25<br>OCT 04 | SEP 28<br>OCT 10<br>OCT 19 | OCT 15<br>OCT 25<br>NOV 03 | 161<br>187<br>202       | 141<br>165<br>181 | 122<br>143<br>160 | 48<br>41<br>33                    |  |
| LODGEPOLE                 | 36<br>32<br>28                 | MAY 07<br>APR 27<br>APR 16 | MAY 21<br>MAY 12<br>MAY 10 | JUN 04<br>MAY 28<br>MAY 10 | SEP 05<br>SEP 15<br>SEP 20 | SEP 17<br>SEP 29<br>OCT 06 | SEP 29<br>OCT 12<br>OCT 22 | 134<br>158<br>182       | 118<br>138<br>160 | 103<br>119<br>139 | 54<br>48<br>39                    |  |
| LOUP CITY                 | 36<br>32<br>28                 | APR 30<br>APR 20<br>APR 09 | MAY 14<br>MAY 04<br>APR 23 | MAY 28<br>MAY 19<br>MAY 08 | SEP 09<br>SEP 20<br>SEP 29 | SEP 25<br>OCT 03<br>OCT 13 | OCT 11<br>OCT 17<br>OCT 27 | 155<br>171<br>194       | 133<br>151<br>172 | 111<br>132<br>150 | 50<br>44<br>38                    |  |
| MADISON                   | 36<br>32<br>28                 | MAY 03<br>APR 23<br>APR 13 | MAY 16<br>MAY 08<br>APR 29 | MAY 29<br>MAY 23<br>MAY 15 | SEP 09<br>SEP 15<br>SEP 24 | SEP 22<br>SEP 30<br>OCT 07 | OCT 05<br>OCT 14<br>OCT 20 | 144<br>162<br>178       | 128<br>144<br>161 | 113<br>126<br>143 | 49<br>44<br>37                    |  |
| MADRID                    | 36<br>32<br>28                 | MAY 04<br>APR 23<br>APR 11 | MAY 17<br>MAY 05<br>MAY 25 | MAY 30<br>MAY 16<br>MAY 08 | SEP 10<br>SEP 18<br>SEP 27 | SEP 23<br>OCT 01<br>OCT 12 | OCT 05<br>OCT 14<br>OCT 27 | 147<br>167<br>191       | 128<br>148<br>170 | 109<br>129<br>149 | 51<br>46<br>38                    |  |
| MCCOOK                    | 36<br>32<br>28                 | APR 26<br>APR 15<br>APR 06 | MAY 10<br>MAY 30<br>APR 20 | MAY 24<br>MAY 14<br>MAY 04 | SEP 11<br>SEP 23<br>OCT 07 | SEP 28<br>OCT 09<br>OCT 19 | OCT 14<br>OCT 24<br>OCT 31 | 163<br>180<br>198       | 140<br>161<br>181 | 117<br>142<br>164 | 48<br>42<br>35                    |  |
| MEDICINE CREEK DAM        | 36<br>32<br>28                 | APR 27<br>APR 19<br>APR 05 | MAY 12<br>MAY 02<br>APR 21 | MAY 27<br>MAY 14<br>MAY 07 | SEP 10<br>SEP 16<br>OCT 01 | SEP 27<br>OCT 03<br>OCT 15 | OCT 14<br>OCT 19<br>OCT 28 | 161<br>176<br>194       | 137<br>153<br>176 | 113<br>130<br>157 | 51<br>45<br>39                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| NEBRASKA                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| MERRIMAN                  | 36<br>32<br>28                | MAY 08<br>APR 28<br>APR 18 | MAY 25<br>MAY 14<br>MAY 03 | JUN 11<br>MAY 29<br>MAY 19 | AUG 31<br>SEP 10<br>SEP 17 | SEP 14<br>SEP 24<br>OCT 02 | SEP 29<br>OCT 09<br>OCT 16 | 135<br>154<br>172       | 112<br>133<br>150 | 88<br>112<br>129  | 54<br>47<br>40                    |  |
| MINDEN                    | 36<br>32<br>28                | APR 25<br>APR 18<br>APR 04 | MAY 08<br>MAY 03<br>APR 19 | MAY 21<br>MAY 17<br>MAY 05 | SEP 16<br>SEP 23<br>OCT 05 | SEP 30<br>OCT 08<br>OCT 20 | OCT 14<br>OCT 24<br>NOV 04 | 163<br>179<br>203       | 145<br>158<br>183 | 126<br>137<br>162 | 47<br>41<br>33                    |  |
| MITCHELL S E              | 36<br>32<br>28                | MAY 06<br>MAY 01<br>APR 16 | MAY 21<br>MAY 15<br>APR 28 | JUN 05<br>MAY 30<br>MAY 11 | SEP 03<br>SEP 11<br>SEP 20 | SEP 15<br>SEP 24<br>OCT 05 | SEP 27<br>OCT 07<br>OCT 20 | 134<br>150<br>178       | 116<br>131<br>159 | 98<br>112<br>140  | 56<br>49<br>40                    |  |
| MULLEN                    | 36<br>32<br>28                | MAY 04<br>APR 27<br>APR 10 | MAY 19<br>MAY 11<br>APR 27 | JUN 03<br>MAY 24<br>MAY 15 | SEP 07<br>SEP 12<br>SEP 24 | SEP 20<br>SEP 27<br>OCT 09 | OCT 02<br>OCT 12<br>OCT 24 | 143<br>156<br>187       | 123<br>138<br>164 | 103<br>120<br>141 | 52<br>46<br>37                    |  |
| NENZEL 20 S               | 36<br>32<br>28                | MAY 10<br>MAY 05<br>APR 23 | JUN 02<br>MAY 19<br>MAY 08 | JUN 25<br>JUN 01<br>MAY 23 | AUG 20<br>AUG 31<br>SEP 13 | SEP 06<br>SEP 18<br>SEP 28 | SEP 23<br>OCT 05<br>OCT 14 | 124<br>144<br>166       | 95<br>121<br>143  | 67<br>98<br>120   | 55<br>48<br>41                    |  |
| NIORBRARA                 | 36<br>32<br>28                | MAY 01<br>APR 23<br>APR 07 | MAY 15<br>MAY 06<br>APR 24 | MAY 29<br>MAY 20<br>MAY 12 | SEP 09<br>SEP 17<br>SEP 27 | SEP 23<br>OCT 04<br>OCT 11 | OCT 07<br>OCT 21<br>OCT 25 | 149<br>171<br>190       | 131<br>150<br>169 | 113<br>128<br>148 | 49<br>44<br>36                    |  |
| NORFOLK WSO               | 36<br>32<br>28                | APR 29<br>APR 17<br>APR 07 | MAY 12<br>MAY 01<br>APR 21 | MAY 24<br>MAY 16<br>MAY 04 | SEP 12<br>SEP 23<br>SEP 29 | SEP 27<br>OCT 05<br>OCT 13 | OCT 11<br>OCT 17<br>OCT 27 | 155<br>173<br>196       | 137<br>156<br>175 | 119<br>139<br>153 | 49<br>43<br>36                    |  |
| NORTH LOUP                | 36<br>32<br>28                | MAY 02<br>APR 28<br>APR 13 | MAY 16<br>MAY 08<br>APR 28 | MAY 30<br>MAY 19<br>MAY 13 | SEP 08<br>SEP 15<br>SEP 29 | SEP 24<br>OCT 01<br>OCT 13 | OCT 10<br>OCT 18<br>OCT 27 | 149<br>161<br>188       | 130<br>145<br>167 | 111<br>129<br>146 | 50<br>44<br>37                    |  |
| NORTH PLATTE WSO          | 36<br>32<br>28                | MAY 07<br>APR 26<br>APR 13 | MAY 19<br>MAY 11<br>APR 28 | JUN 01<br>MAY 25<br>MAY 14 | SEP 04<br>SEP 10<br>SEP 16 | SEP 17<br>SEP 24<br>OCT 03 | SEP 29<br>OCT 08<br>OCT 20 | 137<br>157<br>181       | 120<br>136<br>157 | 103<br>114<br>133 | 54<br>49<br>42                    |  |
| OAKDALE                   | 36<br>32<br>28                | MAY 04<br>APR 25<br>APR 08 | MAY 18<br>MAY 07<br>APR 27 | JUN 01<br>MAY 20<br>MAY 15 | SEP 07<br>SEP 17<br>SEP 25 | SEP 22<br>SEP 30<br>OCT 09 | OCT 07<br>OCT 13<br>OCT 23 | 145<br>161<br>186       | 126<br>146<br>165 | 108<br>130<br>144 | 50<br>45<br>38                    |  |
| OGALLALA 3 W              | 36<br>32<br>28                | MAY 06<br>APR 22<br>APR 13 | MAY 18<br>MAY 06<br>APR 26 | MAY 30<br>MAY 20<br>MAY 10 | SEP 08<br>SEP 14<br>SEP 18 | SEP 20<br>SEP 30<br>OCT 04 | OCT 02<br>OCT 15<br>OCT 21 | 143<br>166<br>183       | 124<br>146<br>160 | 106<br>125<br>137 | 54<br>47<br>40                    |  |
| O NEILL                   | 36<br>32<br>28                | MAY 03<br>APR 26<br>APR 13 | MAY 18<br>MAY 09<br>APR 29 | JUN 03<br>MAY 21<br>MAY 16 | SEP 09<br>SEP 14<br>SEP 26 | SEP 21<br>SEP 30<br>OCT 11 | OCT 04<br>OCT 16<br>OCT 25 | 145<br>164<br>185       | 125<br>143<br>164 | 106<br>123<br>142 | 50<br>45<br>37                    |  |
| OSCEOLA                   | 36<br>32<br>28                | APR 29<br>APR 29<br>APR 03 | MAY 08<br>MAY 15<br>MAY 04 | MAY 17<br>MAY 21<br>OCT 08 | SEP 13<br>SEP 25<br>OCT 19 | SEP 28<br>OCT 08<br>OCT 30 | OCT 13<br>OCT 21<br>OCT 30 | 157<br>183<br>201       | 142<br>161<br>183 | 127<br>139<br>165 | 47<br>41<br>34                    |  |
| OSHKOSH                   | 36<br>32<br>28                | MAY 09<br>APR 26<br>APR 19 | MAY 23<br>MAY 11<br>APR 29 | JUN 06<br>MAY 26<br>MAY 10 | SEP 02<br>SEP 11<br>SEP 19 | SEP 15<br>SEP 24<br>OCT 03 | SEP 28<br>OCT 07<br>OCT 17 | 134<br>153<br>175       | 115<br>135<br>156 | 96<br>117<br>137  | 55<br>49<br>42                    |  |
| PAWNEE CITY               | 36<br>32<br>28                | APR 22<br>APR 06<br>MAR 26 | MAY 04<br>MAY 21<br>APR 11 | MAY 16<br>MAY 06<br>APR 27 | SEP 19<br>SEP 23<br>OCT 09 | OCT 01<br>OCT 06<br>OCT 22 | OCT 12<br>OCT 19<br>NOV 05 | 162<br>187<br>212       | 149<br>167<br>194 | 136<br>148<br>175 | 42<br>35<br>27                    |  |
| PURDUM                    | 36<br>32<br>28                | MAY 08<br>APR 30<br>APR 18 | MAY 24<br>MAY 11<br>MAY 03 | JUN 08<br>MAY 22<br>MAY 17 | SEP 04<br>SEP 11<br>SEP 24 | SEP 16<br>SEP 27<br>OCT 08 | SEP 28<br>OCT 12<br>OCT 22 | 135<br>156<br>179       | 115<br>138<br>157 | 94<br>120<br>136  | 53<br>47<br>39                    |  |
| RAVENNA                   | 36<br>32<br>28                | MAY 04<br>APR 27<br>APR 14 | MAY 20<br>MAY 09<br>APR 30 | JUN 05<br>MAY 21<br>MAY 16 | SEP 05<br>SEP 14<br>SEP 24 | SEP 21<br>SEP 30<br>OCT 09 | OCT 06<br>OCT 16<br>OCT 23 | 145<br>163<br>185       | 123<br>143<br>161 | 101<br>124<br>137 | 49<br>44<br>37                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY *<br>(4) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|--------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                      |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                      |  |
| NEBRASKA                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                      |  |
| RED CLOUD                 | 36<br>32<br>28                | MAY 01<br>APR 17<br>APR 05 | MAY 12<br>MAY 02<br>APR 22 | MAY 23<br>MAY 18<br>MAY 09 | SEP 07<br>SEP 19<br>SEP 27 | SEP 23<br>OCT 03<br>OCT 12 | OCT 10<br>OCT 18<br>OCT 27 | 155<br>175<br>193       | 134<br>153<br>172 | 113<br>131<br>152 | 48<br>42<br>36                       |  |
| SAINT PAUL                | 36<br>32<br>28                | APR 29<br>APR 17<br>APR 06 | MAY 11<br>MAY 03<br>APR 22 | MAY 22<br>MAY 18<br>MAY 08 | SEP 10<br>SEP 19<br>OCT 02 | SEP 26<br>OCT 04<br>OCT 16 | OCT 12<br>OCT 19<br>OCT 29 | 156<br>177<br>197       | 138<br>154<br>176 | 119<br>132<br>155 | 48<br>42<br>36                       |  |
| SCOTTSBLUFF WSO           | 36<br>32<br>28                | MAY 06<br>APR 19<br>APR 11 | MAY 21<br>MAY 07<br>APR 24 | JUN 04<br>MAY 25<br>MAY 07 | SEP 04<br>SEP 14<br>SEP 24 | SEP 20<br>SEP 29<br>OCT 09 | OCT 05<br>OCT 13<br>OCT 23 | 143<br>169<br>183       | 121<br>144<br>167 | 100<br>119<br>151 | 54<br>47<br>39                       |  |
| SEWARD                    | 36<br>32<br>28                | APR 21<br>APR 09<br>APR 01 | MAY 04<br>APR 24<br>APR 14 | MAY 18<br>MAY 09<br>APR 27 | SEP 22<br>SEP 30<br>OCT 12 | OCT 05<br>OCT 14<br>OCT 24 | OCT 17<br>OCT 28<br>NOV 05 | 171<br>192<br>207       | 153<br>173<br>192 | 134<br>153<br>178 | 44<br>38<br>31                       |  |
| SIDNEY 6 NNW              | 36<br>32<br>28                | MAY 11<br>MAY 01<br>APR 21 | MAY 29<br>MAY 16<br>MAY 01 | JUN 17<br>JUN 01<br>MAY 12 | AUG 26<br>SEP 12<br>SEP 18 | SEP 14<br>SEP 25<br>OCT 04 | OCT 02<br>OCT 08<br>OCT 20 | 135<br>153<br>176       | 106<br>131<br>155 | 78<br>110<br>134  | 56<br>49<br>41                       |  |
| SIDNEY FAA AIRPORT        | 36<br>32<br>28                | MAY 12<br>APR 30<br>APR 16 | MAY 27<br>MAY 16<br>MAY 03 | JUN 10<br>JUN 01<br>MAY 20 | SEP 02<br>SEP 11<br>SEP 19 | SEP 15<br>SEP 25<br>OCT 04 | SEP 28<br>OCT 09<br>OCT 19 | 129<br>153<br>176       | 111<br>131<br>154 | 93<br>110<br>131  | 57<br>51<br>43                       |  |
| SPRINGVIEW                | 36<br>32<br>28                | APR 29<br>APR 17<br>APR 10 | MAY 14<br>MAY 03<br>APR 25 | MAY 28<br>MAY 20<br>MAY 09 | SEP 10<br>SEP 20<br>OCT 02 | SEP 25<br>OCT 05<br>OCT 16 | OCT 10<br>OCT 19<br>OCT 31 | 155<br>178<br>191       | 134<br>153<br>174 | 112<br>129<br>156 | 50<br>44<br>36                       |  |
| STANTON                   | 36<br>32<br>28                | APR 30<br>APR 21<br>APR 11 | MAY 15<br>MAY 05<br>APR 27 | MAY 30<br>MAY 19<br>MAY 13 | SEP 08<br>SEP 21<br>SEP 28 | SEP 24<br>OCT 03<br>OCT 11 | OCT 09<br>OCT 16<br>OCT 25 | 152<br>166<br>188       | 131<br>151<br>167 | 110<br>135<br>145 | 48<br>43<br>36                       |  |
| STAPLETON 5 SSE           | 36<br>32<br>28                | MAY 09<br>APR 26<br>APR 13 | MAY 21<br>MAY 09<br>APR 29 | JUN 03<br>MAY 22<br>MAY 15 | SEP 04<br>SEP 12<br>SEP 23 | SEP 18<br>SEP 28<br>OCT 08 | OCT 03<br>OCT 14<br>OCT 23 | 135<br>163<br>182       | 119<br>141<br>162 | 103<br>119<br>141 | 53<br>47<br>40                       |  |
| SYRACUSE                  | 36<br>32<br>28                | APR 27<br>APR 12<br>APR 01 | MAY 07<br>MAY 12<br>MAY 15 | MAY 17<br>MAY 12<br>MAY 30 | SEP 13<br>SEP 21<br>OCT 04 | SEP 29<br>OCT 05<br>OCT 17 | OCT 15<br>OCT 19<br>OCT 29 | 159<br>180<br>205       | 144<br>160<br>184 | 129<br>140<br>163 | 45<br>40<br>33                       |  |
| TECUMSEH                  | 36<br>32<br>28                | APR 29<br>APR 19<br>APR 06 | MAY 09<br>MAY 03<br>APR 19 | MAY 19<br>MAY 17<br>MAY 01 | SEP 15<br>SEP 23<br>OCT 04 | SEP 27<br>OCT 06<br>OCT 15 | OCT 08<br>OCT 18<br>OCT 27 | 156<br>167<br>197       | 140<br>155<br>179 | 124<br>143<br>161 | 46<br>40<br>33                       |  |
| TEKAMAH                   | 36<br>32<br>28                | APR 24<br>APR 13<br>APR 01 | MAY 08<br>MAY 28<br>MAY 16 | MAY 22<br>MAY 13<br>MAY 30 | SEP 16<br>SEP 26<br>OCT 04 | SEP 30<br>OCT 09<br>OCT 18 | OCT 14<br>OCT 22<br>NOV 01 | 163<br>183<br>206       | 144<br>164<br>185 | 125<br>144<br>164 | 46<br>40<br>32                       |  |
| TRENTON DAM               | 36<br>32<br>28                | APR 30<br>APR 19<br>APR 03 | MAY 12<br>MAY 03<br>APR 21 | MAY 23<br>MAY 17<br>MAY 09 | SEP 13<br>SEP 22<br>OCT 04 | SEP 28<br>OCT 08<br>OCT 18 | OCT 13<br>OCT 23<br>OCT 31 | 158<br>178<br>202       | 139<br>157<br>179 | 120<br>136<br>156 | 51<br>45<br>38                       |  |
| VALENTINE LKS GAME REF    | 36<br>32<br>28                | MAY 03<br>APR 20<br>APR 12 | MAY 21<br>MAY 05<br>APR 27 | JUN 08<br>MAY 21<br>MAY 13 | SEP 07<br>SEP 19<br>SEP 24 | SEP 22<br>OCT 02<br>OCT 11 | OCT 06<br>OCT 16<br>OCT 28 | 145<br>170<br>190       | 123<br>149<br>166 | 102<br>129<br>143 | 50<br>43<br>36                       |  |
| WAKEFIELD                 | 36<br>32<br>28                | MAY 02<br>APR 27<br>APR 16 | MAY 15<br>MAY 08<br>MAY 29 | MAY 28<br>MAY 18<br>MAY 12 | SEP 09<br>SEP 13<br>SEP 22 | SEP 21<br>SEP 29<br>OCT 05 | OCT 02<br>OCT 15<br>OCT 19 | 144<br>158<br>177       | 128<br>143<br>159 | 112<br>128<br>140 | 50<br>45<br>38                       |  |
| WEEPING WATER             | 36<br>32<br>28                | APR 27<br>APR 15<br>APR 03 | MAY 08<br>MAY 13<br>MAY 01 | MAY 19<br>MAY 13<br>MAY 01 | SEP 13<br>SEP 23<br>OCT 05 | SEP 28<br>OCT 06<br>OCT 18 | OCT 12<br>OCT 19<br>OCT 31 | 158<br>176<br>203       | 142<br>160<br>183 | 126<br>143<br>163 | 45<br>40<br>32                       |  |
| WEST POINT                | 36<br>32<br>28                | APR 26<br>APR 18<br>APR 08 | MAY 11<br>MAY 02<br>APR 21 | MAY 25<br>MAY 16<br>MAY 05 | SEP 14<br>SEP 21<br>OCT 01 | SEP 27<br>OCT 06<br>OCT 14 | OCT 10<br>OCT 22<br>OCT 26 | 156<br>174<br>195       | 139<br>156<br>175 | 121<br>138<br>155 | 48<br>42<br>35                       |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F.) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|--------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                                | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                                | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| NEBRASKA                  |                                |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| YORK                      | 36<br>32<br>28                 | APR 24<br>APR 11<br>MAR 31 | MAY 06<br>APR 26<br>APR 15 | MAY 18<br>MAY 10<br>APR 30 | SEP 18<br>SEP 30<br>OCT 10 | OCT 02<br>OCT 13<br>OCT 23 | OCT 16<br>OCT 26<br>NOV 04 | 164<br>192<br>208       | 148<br>170<br>190 | 133<br>147<br>173 | 45<br>39<br>32                    |  |
| NEVADA                    |                                |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| BATTLE MOUNTAIN AP R      | 36<br>32<br>28                 | MAY 30<br>MAY 13<br>APR 25 | JUN 15<br>JUN 01<br>MAY 16 | JUL 01<br>JUN 21<br>JUN 06 | AUG 12<br>AUG 23<br>SEP 05 | AUG 30<br>SEP 11<br>SEP 22 | SEP 17<br>OCT 01<br>OCT 09 | 98<br>131<br>156        | 75<br>101<br>128  | 52<br>72<br>100   | 61<br>52<br>41                    |  |
| BOULDER CITY              | 36<br>32<br>28                 | FEB 10<br>DEC 30<br>-      | MAR 11<br>FEB 17<br>JAN 16 | APR 09<br>APR 02<br>FEB 18 | NOV 10<br>NOV 16<br>DEC 08 | NOV 28<br>DEC 11<br>JAN 08 | DEC 16<br>JAN 11<br>-      | 300<br>>365<br>>365     | 261<br>296<br>365 | 223<br>246<br>317 | 8<br>3<br>1                       |  |
| CALIENTE                  | 36<br>32<br>28                 | MAY 10<br>APR 30<br>APR 17 | MAY 25<br>MAY 13<br>MAY 02 | JUN 09<br>MAY 26<br>MAY 17 | SEP 10<br>SEP 20<br>OCT 01 | SEP 24<br>OCT 05<br>OCT 18 | OCT 09<br>OCT 21<br>NOV 03 | 142<br>166<br>191       | 122<br>145<br>168 | 101<br>123<br>144 | 54<br>45<br>36                    |  |
| CARSON CITY               | 36<br>32<br>28                 | MAY 29<br>MAY 08<br>APR 25 | JUN 18<br>MAY 29<br>MAY 11 | JUL 08<br>JUN 18<br>MAY 27 | AUG 18<br>SEP 02<br>SEP 11 | SEP 05<br>SEP 21<br>SEP 30 | SEP 24<br>OCT 10<br>OCT 20 | 112<br>144<br>169       | 79<br>115<br>141  | 45<br>86<br>113   | 56<br>46<br>36                    |  |
| CONTACT                   | 36<br>32<br>28                 | JUN 09<br>MAY 21<br>APR 30 | JUN 28<br>JUN 10<br>MAY 22 | JUL 17<br>JUN 30<br>JUN 14 | AUG 11<br>AUG 20<br>SEP 01 | AUG 24<br>SEP 07<br>SEP 16 | SEP 06<br>SEP 24<br>OCT 02 | 83<br>114<br>143        | 56<br>88<br>116   | 29<br>62<br>89    | 66<br>57<br>45                    |  |
| DESERT NATL WL RANGE      | 36<br>32<br>28                 | APR 08<br>MAR 15<br>FEB 24 | APR 25<br>APR 07<br>MAR 17 | MAY 12<br>APR 29<br>APR 08 | OCT 14<br>OCT 26<br>NOV 07 | OCT 28<br>NOV 08<br>NOV 20 | NOV 11<br>NOV 22<br>DEC 03 | 205<br>238<br>271       | 186<br>215<br>247 | 167<br>192<br>223 | 31<br>21<br>12                    |  |
| DYER 4 SE                 | 36<br>32<br>28                 | MAY 27<br>MAY 07<br>APR 28 | JUN 11<br>MAY 26<br>MAY 15 | JUN 26<br>JUN 14<br>JUN 01 | AUG 22<br>SEP 07<br>SEP 19 | SEP 09<br>SEP 23<br>OCT 05 | SEP 27<br>OCT 08<br>OCT 21 | 114<br>147<br>163       | 89<br>119<br>142  | 64<br>91<br>122   | 59<br>50<br>40                    |  |
| ELKO WSO                  | 36<br>32<br>28                 | JUN 05<br>MAY 15<br>APR 30 | JUN 24<br>JUN 05<br>MAY 21 | JUL 13<br>JUN 26<br>JUN 10 | AUG 09<br>AUG 20<br>SEP 03 | AUG 28<br>SEP 08<br>SEP 23 | SEP 16<br>SEP 27<br>OCT 13 | 97<br>127<br>154        | 64<br>95<br>124   | 32<br>63<br>94    | 64<br>54<br>43                    |  |
| ELY WSO                   | 36<br>32<br>28                 | JUN 14<br>JUN 03<br>MAY 13 | JUN 29<br>JUN 16<br>JUN 02 | JUL 14<br>JUN 30<br>JUN 21 | AUG 13<br>AUG 21<br>AUG 30 | AUG 28<br>SEP 06<br>SEP 16 | SEP 13<br>SEP 21<br>OCT 03 | 82<br>103<br>131        | 60<br>81<br>106   | 37<br>58<br>80    | 68<br>60<br>50                    |  |
| FALLON EXPERIMENT STA     | 36<br>32<br>28                 | MAY 16<br>APR 27<br>APR 18 | JUN 04<br>MAY 14<br>MAY 04 | JUN 23<br>MAY 30<br>MAY 20 | AUG 31<br>SEP 14<br>SEP 22 | SEP 20<br>SEP 30<br>OCT 08 | OCT 10<br>OCT 16<br>OCT 24 | 130<br>161<br>178       | 107<br>139<br>156 | 83<br>117<br>135  | 53<br>44<br>35                    |  |
| GLENBROOK                 | 36<br>32<br>28                 | JUN 01<br>MAY 18<br>MAY 01 | JUN 19<br>JUN 06<br>MAY 20 | JUL 06<br>JUN 25<br>JUN 08 | AUG 21<br>SEP 09<br>SEP 20 | SEP 15<br>OCT 01<br>OCT 13 | OCT 09<br>OCT 23<br>NOV 06 | 121<br>146<br>174       | 88<br>116<br>145  | 54<br>87<br>116   | 59<br>46<br>30                    |  |
| LAS VEGAS WSO             | 36<br>32<br>28                 | MAR 04<br>FEB 08<br>JAN 09 | MAR 27<br>MAR 07<br>FEB 13 | APR 19<br>APR 03<br>MAR 16 | OCT 31<br>NOV 07<br>NOV 14 | NOV 14<br>NOV 21<br>DEC 06 | NOV 28<br>DEC 05<br>DEC 30 | 260<br>287<br>346       | 232<br>259<br>295 | 204<br>231<br>256 | 19<br>11<br>5                     |  |
| LEHMAN CAVES NAT MON      | 36<br>32<br>28                 | MAY 25<br>MAY 10<br>APR 27 | JUN 11<br>MAY 28<br>MAY 14 | JUN 28<br>JUN 15<br>MAY 31 | AUG 30<br>SEP 12<br>SEP 18 | SEP 17<br>SEP 29<br>OCT 06 | OCT 06<br>OCT 16<br>OCT 23 | 124<br>149<br>170       | 98<br>123<br>144  | 71<br>98<br>118   | 54<br>46<br>36                    |  |
| LOVELOCK FAA AP           | 36<br>32<br>28                 | MAY 08<br>APR 29<br>APR 15 | MAY 30<br>MAY 15<br>MAY 04 | JUN 21<br>MAY 30<br>MAY 23 | AUG 28<br>SEP 07<br>SEP 20 | SEP 15<br>SEP 24<br>OCT 06 | OCT 04<br>OCT 11<br>OCT 23 | 138<br>159<br>183       | 108<br>132<br>155 | 77<br>105<br>126  | 55<br>47<br>38                    |  |
| MC GILL                   | 36<br>32<br>28                 | MAY 28<br>MAY 12<br>APR 26 | JUN 11<br>MAY 31<br>MAY 13 | JUN 25<br>JUN 19<br>MAY 30 | AUG 27<br>SEP 06<br>SEP 15 | SEP 12<br>SEP 24<br>OCT 06 | SEP 29<br>OCT 12<br>OCT 26 | 115<br>141<br>174       | 92<br>115<br>145  | 69<br>89<br>115   | 59<br>50<br>40                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| NEVADA                    |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| MINA                      | 36<br>32<br>28                | MAY 07<br>APR 23<br>APR 11 | MAY 21<br>MAY 08<br>APR 25 | JUN 04<br>MAY 22<br>MAY 09 | SEP 12<br>SEP 24<br>OCT 06 | SEP 28<br>OCT 09<br>OCT 22 | OCT 13<br>OCT 25<br>NOV 07 | 152<br>174<br>200       | 129<br>154<br>179 | 106<br>134<br>159 | 48<br>40<br>29                    |  |
| MINDEN                    | 36<br>32<br>28                | JUN 07<br>MAY 19<br>APR 30 | JUN 24<br>JUN 05<br>MAY 15 | JUL 12<br>JUN 22<br>MAY 30 | AUG 09<br>AUG 28<br>SEP 08 | AUG 28<br>SEP 15<br>SEP 26 | SEP 16<br>OCT 03<br>OCT 13 | 90<br>124<br>150        | 64<br>101<br>133  | 39<br>79<br>115   | 63<br>54<br>43                    |  |
| OWYHEE                    | 36<br>32<br>28                | JUN 05<br>MAY 20<br>APR 30 | JUN 21<br>JUN 08<br>MAY 18 | JUL 08<br>JUN 27<br>JUN 04 | AUG 16<br>AUG 27<br>SEP 10 | AUG 30<br>SEP 12<br>SEP 27 | SEP 13<br>SEP 27<br>OCT 15 | 91<br>118<br>155        | 69<br>95<br>132   | 47<br>71<br>109   | 60<br>49<br>37                    |  |
| PIOCHE                    | 36<br>32<br>28                | MAY 12<br>APR 30<br>APR 20 | MAY 29<br>MAY 17<br>MAY 04 | JUN 15<br>JUN 02<br>MAY 17 | SEP 20<br>SEP 27<br>OCT 04 | OCT 04<br>OCT 13<br>OCT 25 | OCT 18<br>OCT 28<br>NOV 14 | 150<br>170<br>200       | 127<br>148<br>173 | 103<br>127<br>147 | 49<br>40<br>30                    |  |
| RENO WSO                  | 36<br>32<br>28                | JUN 08<br>MAY 13<br>APR 27 | JUN 23<br>JUN 01<br>MAY 12 | JUL 09<br>JUN 19<br>MAY 27 | AUG 12<br>AUG 23<br>SEP 14 | AUG 29<br>SEP 16<br>SEP 30 | SEP 15<br>OCT 09<br>OCT 17 | 92<br>139<br>163        | 66<br>106<br>141  | 40<br>74<br>119   | 62<br>51<br>40                    |  |
| RYE PATCH DAM             | 36<br>32<br>28                | MAY 28<br>MAY 12<br>APR 27 | JUN 18<br>JUN 03<br>MAY 11 | JUL 08<br>JUN 24<br>MAY 25 | AUG 15<br>AUG 28<br>SEP 11 | AUG 30<br>SEP 15<br>SEP 27 | SEP 14<br>OCT 03<br>OCT 14 | 100<br>131<br>161       | 73<br>104<br>139  | 45<br>76<br>116   | 58<br>48<br>38                    |  |
| SEARCHLIGHT               | 36<br>32<br>28                | MAR 27<br>FEB 21<br>JAN 18 | APR 17<br>MAR 26<br>FEB 21 | MAY 09<br>APR 27<br>MAR 26 | OCT 23<br>NOV 02<br>NOV 10 | NOV 08<br>NOV 19<br>DEC 12 | NOV 23<br>DEC 05<br>JAN 15 | 228<br>271<br>344       | 204<br>237<br>289 | 179<br>203<br>246 | 19<br>10<br>4                     |  |
| SMOKEY VALLEY             | 36<br>32<br>28                | MAY 27<br>MAY 14<br>APR 29 | JUN 14<br>MAY 30<br>MAY 16 | JUL 02<br>JUN 15<br>JUN 02 | AUG 22<br>SEP 02<br>SEP 15 | SEP 10<br>SEP 20<br>OCT 02 | SEP 29<br>OCT 08<br>OCT 19 | 113<br>138<br>163       | 87<br>112<br>138  | 62<br>87<br>113   | 60<br>51<br>42                    |  |
| SUNRISE MNR LAS VEGAS     | 36<br>32<br>28                | APR 09<br>MAR 19<br>FEB 22 | APR 25<br>APR 08<br>MAR 19 | MAY 10<br>APR 28<br>APR 12 | OCT 06<br>OCT 17<br>OCT 26 | OCT 20<br>OCT 31<br>NOV 11 | NOV 03<br>NOV 14<br>NOV 27 | 200<br>233<br>271       | 178<br>206<br>236 | 155<br>179<br>202 | 33<br>25<br>18                    |  |
| WELLS                     | 36<br>32<br>28                | JUN 16<br>JUN 04<br>MAY 09 | JUL 03<br>JUL 14<br>JUN 04 | JUL 21<br>AUG 13<br>AUG 22 | AUG 05<br>AUG 13<br>SEP 12 | AUG 19<br>AUG 27<br>SEP 10 | SEP 02<br>SEP 10<br>OCT 02 | 72<br>90<br>134         | 46<br>63<br>99    | 20<br>36<br>65    | 69<br>60<br>48                    |  |
| WINNEMUCCA WSO            | 36<br>32<br>28                | JUN 09<br>MAY 21<br>APR 28 | JUN 24<br>JUN 08<br>MAY 20 | JUL 09<br>JUN 26<br>JUN 11 | AUG 12<br>AUG 26<br>SEP 05 | AUG 27<br>SEP 10<br>SEP 24 | SEP 10<br>SEP 25<br>OCT 13 | 85<br>119<br>160        | 63<br>93<br>126   | 41<br>67<br>92    | 62<br>52<br>41                    |  |
| YERINGTON                 | 36<br>32<br>28                | MAY 25<br>MAY 01<br>APR 20 | JUN 14<br>MAY 27<br>MAY 15 | JUL 05<br>JUN 22<br>JUN 09 | AUG 17<br>SEP 04<br>SEP 15 | SEP 09<br>SEP 21<br>OCT 04 | OCT 01<br>OCT 08<br>OCT 23 | 118<br>149<br>175       | 86<br>117<br>141  | 54<br>84<br>107   | 57<br>48<br>38                    |  |
| NEW HAMPSHIRE             |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| BETHLEHEM                 | 36<br>32<br>28                | MAY 23<br>MAY 09<br>APR 20 | JUN 08<br>MAY 24<br>MAY 07 | JUN 24<br>JUN 09<br>MAY 24 | AUG 28<br>SEP 09<br>SEP 20 | SEP 10<br>SEP 21<br>SEP 30 | SEP 22<br>OCT 04<br>OCT 11 | 112<br>138<br>166       | 93<br>119<br>145  | 74<br>100<br>125  | 56<br>50<br>41                    |  |
| BLACKWATER DAM            | 36<br>32<br>28                | MAY 23<br>MAY 02<br>APR 18 | JUN 05<br>MAY 18<br>MAY 04 | JUN 19<br>JUN 02<br>MAY 19 | SEP 02<br>SEP 10<br>SEP 21 | SEP 12<br>SEP 21<br>OCT 05 | SEP 21<br>OCT 02<br>OCT 19 | 114<br>146<br>172       | 98<br>126<br>154  | 81<br>106<br>135  | 55<br>49<br>39                    |  |
| CONCORD WSO               | 36<br>32<br>28                | MAY 21<br>MAY 07<br>APR 23 | JUN 06<br>MAY 23<br>MAY 08 | JUN 21<br>JUN 09<br>MAY 23 | AUG 24<br>SEP 08<br>SEP 19 | SEP 08<br>SEP 22<br>OCT 01 | SEP 23<br>OCT 06<br>OCT 13 | 117<br>144<br>161       | 93<br>121<br>145  | 70<br>98<br>129   | 55<br>47<br>38                    |  |
| DURHAM                    | 36<br>32<br>28                | MAY 16<br>MAY 02<br>APR 16 | JUN 02<br>MAY 18<br>MAY 04 | JUN 19<br>JUN 02<br>MAY 22 | AUG 31<br>SEP 09<br>SEP 19 | SEP 14<br>SEP 21<br>OCT 07 | SEP 27<br>OCT 03<br>OCT 24 | 129<br>146<br>181       | 103<br>126<br>155 | 76<br>106<br>129  | 52<br>45<br>36                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| NEW HAMPSHIRE             |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| FIRST CONN LAKE           | 36<br>32<br>28                | MAY 30<br>MAY 22<br>MAY 12 | JUN 24<br>JUN 08<br>MAY 25 | JUL 19<br>JUN 25<br>JUN 07 | AUG 04<br>AUG 29<br>SEP 16 | AUG 22<br>SEP 12<br>SEP 28 | SEP 10<br>SEP 26<br>OCT 10 | 89<br>114<br>142        | 58<br>95<br>125   | 27<br>76<br>109   | 63<br>56<br>48                    |  |
| HANOVER                   | 36<br>32<br>28                | MAY 16<br>MAY 04<br>APR 18 | MAY 30<br>MAY 17<br>MAY 03 | JUN 13<br>MAY 30<br>MAY 18 | SEP 09<br>SEP 18<br>SEP 29 | SEP 21<br>SEP 30<br>OCT 12 | OCT 02<br>OCT 11<br>OCT 24 | 132<br>151<br>182       | 113<br>135<br>161 | 95<br>119<br>140  | 53<br>46<br>37                    |  |
| KEENE                     | 36<br>32<br>28                | MAY 17<br>MAY 02<br>APR 20 | JUN 03<br>MAY 19<br>MAY 06 | JUN 19<br>JUN 04<br>MAY 22 | AUG 24<br>SEP 11<br>SEP 20 | SEP 09<br>SEP 25<br>OCT 04 | SEP 25<br>OCT 08<br>OCT 18 | 123<br>150<br>174       | 97<br>128<br>150  | 72<br>106<br>126  | 53<br>45<br>36                    |  |
| LAKEPORT                  | 36<br>32<br>28                | MAY 02<br>APR 20<br>APR 11 | MAY 14<br>MAY 06<br>APR 21 | MAY 26<br>MAY 21<br>APR 30 | SEP 18<br>SEP 30<br>OCT 12 | SEP 28<br>OCT 13<br>OCT 25 | OCT 08<br>OCT 25<br>NOV 08 | 150<br>180<br>205       | 137<br>159<br>187 | 123<br>139<br>169 | 50<br>43<br>35                    |  |
| LEBANON FAA AIRPORT       | 36<br>32<br>28                | MAY 19<br>MAY 08<br>APR 19 | JUN 02<br>MAY 21<br>MAY 07 | JUN 16<br>JUN 04<br>MAY 24 | AUG 31<br>SEP 12<br>SEP 20 | SEP 13<br>SEP 26<br>OCT 06 | SEP 27<br>OCT 11<br>OCT 22 | 123<br>150<br>178       | 103<br>127<br>151 | 82<br>105<br>125  | 55<br>48<br>39                    |  |
| MASSABECIC LAKE           | 36<br>32<br>28                | MAY 15<br>APR 30<br>APR 15 | JUN 01<br>MAY 15<br>MAY 02 | JUN 17<br>MAY 29<br>MAY 19 | SEP 03<br>SEP 11<br>SEP 22 | SEP 16<br>SEP 24<br>OCT 09 | SEP 29<br>OCT 06<br>OCT 26 | 129<br>150<br>187       | 106<br>131<br>159 | 84<br>113<br>131  | 52<br>45<br>36                    |  |
| MT. WASHINGTON WSO        | 36<br>32<br>28                | JUL 03<br>JUN 17<br>JUN 02 | JUL 18<br>JUL 08<br>JUN 17 | AUG 03<br>JUL 29<br>JUL 02 | JUL 31<br>AUG 02<br>AUG 14 | AUG 08<br>AUG 17<br>SEP 03 | AUG 17<br>AUG 31<br>SEP 23 | 40<br>68<br>106         | 20<br>39<br>77    | 0<br>9<br>48      | 74<br>67<br>60                    |  |
| NASHUA 2 NNW              | 36<br>32<br>28                | MAY 14<br>MAY 02<br>APR 18 | MAY 30<br>MAY 17<br>MAY 04 | JUN 15<br>JUN 02<br>MAY 19 | SEP 01<br>SEP 12<br>SEP 21 | SEP 12<br>SEP 24<br>OCT 04 | SEP 24<br>OCT 06<br>OCT 18 | 124<br>148<br>173       | 105<br>129<br>153 | 85<br>110<br>133  | 53<br>47<br>38                    |  |
| PETERBORO 2 S             | 36<br>32<br>28                | MAY 22<br>MAY 03<br>APR 14 | JUN 12<br>MAY 23<br>MAY 04 | JUL 02<br>JUN 12<br>MAY 23 | AUG 21<br>SEP 10<br>SEP 16 | SEP 09<br>SEP 22<br>OCT 02 | SEP 27<br>OCT 04<br>OCT 19 | 120<br>148<br>177       | 88<br>121<br>151  | 57<br>93<br>125   | 54<br>46<br>37                    |  |
| PINKHAM NOTCH             | 36<br>32<br>28                | MAY 25<br>MAY 10<br>APR 25 | JUN 10<br>MAY 25<br>MAY 07 | JUN 25<br>JUN 08<br>MAY 18 | AUG 25<br>SEP 08<br>SEP 19 | SEP 06<br>SEP 20<br>OCT 03 | SEP 19<br>OCT 02<br>OCT 16 | 107<br>138<br>167       | 88<br>118<br>148  | 69<br>97<br>130   | 60<br>53<br>44                    |  |
| SURRY MOUNTAIN DAM        | 36<br>32<br>28                | MAY 25<br>MAY 08<br>APR 22 | JUN 06<br>MAY 23<br>MAY 08 | JUN 18<br>JUN 06<br>MAY 23 | AUG 25<br>SEP 09<br>SEP 19 | SEP 08<br>SEP 21<br>OCT 04 | SEP 23<br>OCT 04<br>OCT 19 | 112<br>140<br>172       | 94<br>121<br>149  | 75<br>102<br>126  | 56<br>49<br>40                    |  |
| WOODSTOCK                 | 36<br>32<br>28                | MAY 24<br>MAY 10<br>APR 23 | JUN 08<br>MAY 24<br>MAY 09 | JUN 24<br>JUN 06<br>MAY 24 | AUG 28<br>SEP 07<br>SEP 17 | SEP 08<br>SEP 19<br>SEP 30 | SEP 20<br>OCT 01<br>OCT 12 | 110<br>136<br>163       | 91<br>118<br>143  | 72<br>99<br>124   | 56<br>49<br>40                    |  |
| NEW JERSEY                |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| BELLEPLAIN ST FOREST      | 36<br>32<br>28                | APR 24<br>APR 12<br>APR 01 | MAY 09<br>MAY 15<br>MAY 02 | MAY 24                     | SEP 22<br>SEP 28<br>OCT 09 | SEP 30<br>OCT 12<br>OCT 26 | OCT 09<br>OCT 27<br>NOV 11 | 162<br>190<br>214       | 144<br>166<br>191 | 125<br>142<br>169 | 38<br>31<br>23                    |  |
| BELVIDERE                 | 36<br>32<br>28                | APR 26<br>APR 15<br>MAR 31 | MAY 09<br>MAY 15<br>APR 13 | MAY 22<br>MAY 15<br>APR 25 | SEP 22<br>SEP 29<br>OCT 09 | OCT 05<br>OCT 14<br>OCT 24 | OCT 19<br>OCT 28<br>NOV 08 | 168<br>190<br>214       | 148<br>166<br>194 | 129<br>142<br>173 | 45<br>37<br>28                    |  |
| BOONTON 1 SE              | 36<br>32<br>28                | APR 28<br>APR 05<br>MAR 27 | MAY 11<br>MAY 13<br>APR 08 | MAY 23<br>MAY 13<br>APR 20 | SEP 15<br>SEP 30<br>OCT 09 | OCT 01<br>OCT 14<br>OCT 24 | OCT 18<br>OCT 28<br>NOV 07 | 160<br>196<br>219       | 143<br>172<br>198 | 126<br>148<br>178 | 44<br>35<br>27                    |  |
| CANOE BROOK               | 36<br>32<br>28                | MAY 04<br>APR 22<br>APR 03 | MAY 15<br>MAY 05<br>APR 20 | MAY 27<br>MAY 18<br>MAY 07 | SEP 19<br>SEP 29<br>OCT 06 | OCT 02<br>OCT 13<br>OCT 21 | OCT 14<br>OCT 27<br>NOV 05 | 154<br>183<br>207       | 139<br>161<br>183 | 124<br>138<br>159 | 46<br>38<br>30                    |  |

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| NEW JERSEY                |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| CAPE MAY 1 NW             | 36                            | APR 01                  | APR 14 | APR 28 | OCT 16                  | OCT 31 | NOV 15 | 220                     | 199 | 177 | 28                                |  |
|                           | 32                            | MAR 16                  | MAR 30 | APR 13 | OCT 25                  | NOV 10 | NOV 26 | 249                     | 225 | 200 | 20                                |  |
|                           | 28                            | MAR 06                  | MAR 22 | APR 07 | NOV 16                  | NOV 29 | DEC 11 | 275                     | 251 | 228 | 13                                |  |
| CHARLOTTEBURG             | 36                            | MAY 07                  | MAY 24 | JUN 11 | SEP 10                  | SEP 23 | OCT 05 | 145                     | 121 | 96  | 49                                |  |
|                           | 32                            | APR 21                  | MAY 07 | MAY 23 | SEP 17                  | OCT 03 | OCT 19 | 173                     | 148 | 124 | 41                                |  |
|                           | 28                            | APR 05                  | APR 21 | MAY 08 | OCT 03                  | OCT 19 | NOV 04 | 204                     | 180 | 155 | 32                                |  |
| ESSEX FELLS SERV BLDG     | 36                            | APR 27                  | MAY 11 | MAY 24 | SEP 21                  | OCT 03 | OCT 15 | 164                     | 145 | 125 | 44                                |  |
|                           | 32                            | APR 09                  | APR 25 | MAY 10 | SEP 28                  | OCT 13 | OCT 28 | 195                     | 170 | 145 | 36                                |  |
|                           | 28                            | MAR 30                  | APR 13 | APR 26 | OCT 11                  | OCT 26 | NOV 11 | 217                     | 196 | 175 | 27                                |  |
| FLEMINGTON 1 NE           | 36                            | MAY 06                  | MAY 19 | JUN 01 | SEP 13                  | SEP 26 | OCT 08 | 149                     | 129 | 109 | 46                                |  |
|                           | 32                            | APR 21                  | MAY 07 | MAY 22 | SEP 22                  | OCT 08 | OCT 23 | 176                     | 153 | 130 | 38                                |  |
|                           | 28                            | APR 05                  | APR 21 | MAY 06 | OCT 02                  | OCT 16 | OCT 30 | 201                     | 178 | 155 | 29                                |  |
| FREEHOLD                  | 36                            | APR 19                  | MAY 03 | MAY 18 | SEP 21                  | OCT 07 | OCT 22 | 179                     | 156 | 132 | 39                                |  |
|                           | 32                            | APR 09                  | APR 20 | MAY 01 | OCT 04                  | OCT 19 | NOV 02 | 199                     | 181 | 163 | 31                                |  |
|                           | 28                            | MAR 31                  | APR 09 | APR 17 | OCT 18                  | NOV 02 | NOV 17 | 225                     | 207 | 189 | 22                                |  |
| GLASSBORO                 | 36                            | APR 09                  | APR 25 | MAY 12 | SEP 26                  | OCT 12 | OCT 27 | 195                     | 169 | 142 | 36                                |  |
|                           | 32                            | APR 01                  | APR 13 | APR 25 | OCT 07                  | OCT 25 | NOV 12 | 216                     | 194 | 172 | 28                                |  |
|                           | 28                            | MAR 15                  | MAR 27 | APR 09 | OCT 20                  | NOV 07 | NOV 25 | 245                     | 224 | 202 | 19                                |  |
| HAMMONTON 2 NNE           | 36                            | APR 16                  | MAY 03 | MAY 19 | SEP 23                  | OCT 07 | OCT 22 | 181                     | 157 | 133 | 39                                |  |
|                           | 32                            | APR 06                  | APR 16 | APR 25 | OCT 03                  | OCT 21 | NOV 07 | 208                     | 188 | 167 | 31                                |  |
|                           | 28                            | MAR 24                  | APR 06 | APR 18 | OCT 18                  | NOV 05 | NOV 24 | 236                     | 213 | 189 | 22                                |  |
| HIGHTSTOWN 1 N            | 36                            | APR 21                  | MAY 06 | MAY 20 | SEP 21                  | OCT 05 | OCT 18 | 173                     | 151 | 130 | 39                                |  |
|                           | 32                            | APR 07                  | APR 23 | MAY 09 | OCT 02                  | OCT 16 | OCT 30 | 199                     | 175 | 151 | 31                                |  |
|                           | 28                            | MAR 30                  | APR 09 | APR 20 | OCT 16                  | OCT 30 | NOV 13 | 219                     | 203 | 186 | 22                                |  |
| INDIAN MILLS 2 W          | 36                            | MAY 04                  | MAY 19 | JUN 03 | SEP 12                  | SEP 23 | OCT 04 | 145                     | 126 | 108 | 41                                |  |
|                           | 32                            | APR 19                  | MAY 05 | MAY 20 | SEP 22                  | OCT 06 | OCT 20 | 177                     | 153 | 130 | 33                                |  |
|                           | 28                            | APR 04                  | APR 20 | MAY 06 | OCT 03                  | OCT 19 | NOV 04 | 207                     | 182 | 157 | 25                                |  |
| JERSEY CITY               | 36                            | APR 05                  | APR 17 | APR 30 | OCT 09                  | OCT 22 | NOV 05 | 205                     | 187 | 169 | 33                                |  |
|                           | 32                            | MAR 24                  | APR 05 | APR 18 | OCT 19                  | NOV 04 | NOV 20 | 232                     | 212 | 191 | 24                                |  |
|                           | 28                            | MAR 13                  | MAR 27 | APR 11 | NOV 08                  | NOV 22 | DEC 05 | 260                     | 239 | 217 | 17                                |  |
| LAMBERTVILLE              | 36                            | APR 29                  | MAY 10 | MAY 22 | SEP 22                  | OCT 05 | OCT 19 | 165                     | 148 | 130 | 41                                |  |
|                           | 32                            | APR 11                  | APR 28 | MAY 14 | SEP 30                  | OCT 15 | OCT 29 | 194                     | 169 | 145 | 32                                |  |
|                           | 28                            | MAR 28                  | APR 11 | APR 25 | OCT 17                  | OCT 31 | NOV 13 | 221                     | 202 | 183 | 23                                |  |
| LITTLE FALLS              | 36                            | APR 20                  | MAY 03 | MAY 16 | SEP 24                  | OCT 09 | OCT 23 | 182                     | 158 | 134 | 40                                |  |
|                           | 32                            | APR 02                  | APR 17 | MAY 01 | OCT 04                  | OCT 18 | NOV 01 | 203                     | 184 | 164 | 32                                |  |
|                           | 28                            | MAR 24                  | APR 04 | APR 14 | OCT 17                  | NOV 02 | NOV 17 | 231                     | 211 | 191 | 23                                |  |
| LONG BRANCH 2 S           | 36                            | APR 11                  | APR 24 | MAY 07 | OCT 02                  | OCT 18 | NOV 02 | 198                     | 175 | 153 | 35                                |  |
|                           | 32                            | APR 01                  | APR 11 | APR 22 | OCT 16                  | OCT 30 | NOV 13 | 219                     | 201 | 183 | 27                                |  |
|                           | 28                            | MAR 15                  | MAR 29 | APR 13 | OCT 25                  | NOV 11 | NOV 28 | 250                     | 226 | 201 | 18                                |  |
| LONG VALLEY               | 36                            | MAY 08                  | MAY 23 | JUN 07 | SEP 13                  | SEP 24 | OCT 04 | 141                     | 123 | 104 | 48                                |  |
|                           | 32                            | APR 24                  | MAY 08 | MAY 22 | SEP 18                  | OCT 03 | OCT 18 | 166                     | 147 | 128 | 41                                |  |
|                           | 28                            | APR 09                  | APR 21 | MAY 04 | OCT 01                  | OCT 16 | OCT 31 | 198                     | 177 | 155 | 32                                |  |
| MILLVILLE FAA AIRPORT     | 36                            | APR 14                  | APR 28 | MAY 13 | SEP 27                  | OCT 12 | OCT 27 | 189                     | 166 | 143 | 36                                |  |
|                           | 32                            | APR 03                  | APR 16 | APR 29 | OCT 10                  | OCT 25 | NOV 08 | 212                     | 191 | 169 | 29                                |  |
|                           | 28                            | MAR 23                  | APR 04 | APR 16 | OCT 24                  | NOV 06 | NOV 20 | 235                     | 215 | 196 | 20                                |  |
| MOORESTOWN                | 36                            | APR 19                  | MAY 04 | MAY 20 | SEP 23                  | OCT 08 | OCT 22 | 178                     | 156 | 134 | 38                                |  |
|                           | 32                            | MAR 29                  | APR 19 | MAY 09 | OCT 05                  | OCT 20 | NOV 05 | 207                     | 184 | 161 | 30                                |  |
|                           | 28                            | MAR 23                  | APR 06 | APR 19 | OCT 19                  | NOV 02 | NOV 17 | 228                     | 210 | 192 | 21                                |  |
| MORRIS PLAINS 1 W         | 36                            | APR 29                  | MAY 17 | JUN 04 | SEP 20                  | SEP 30 | OCT 10 | 154                     | 135 | 116 | 45                                |  |
|                           | 32                            | APR 18                  | MAY 04 | MAY 19 | SEP 26                  | OCT 10 | OCT 25 | 179                     | 159 | 138 | 37                                |  |
|                           | 28                            | APR 01                  | APR 15 | APR 29 | OCT 08                  | OCT 21 | NOV 02 | 206                     | 188 | 169 | 28                                |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                 |  |
| NEW JERSEY                |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| NEWARK WSO                | 36<br>32<br>28                | APR 05<br>MAR 24<br>MAR 10 | APR 15<br>APR 04<br>MAR 23 | APR 26<br>APR 15<br>APR 05 | OCT 13<br>OCT 26<br>NOV 07 | OCT 26<br>NOV 10<br>NOV 22 | NOV 09<br>NOV 24<br>DEC 07 | 205<br>236<br>267       | 193<br>219<br>243 | 181<br>202<br>220 | 33<br>24<br>17                  |  |
| NEWTON                    | 36<br>32<br>28                | MAY 06<br>APR 27<br>APR 05 | MAY 21<br>MAY 10<br>APR 22 | JUN 06<br>MAY 24<br>MAY 09 | SEP 09<br>SEP 19<br>OCT 01 | SEP 20<br>OCT 02<br>OCT 15 | SEP 30<br>OCT 16<br>OCT 29 | 141<br>164<br>197       | 121<br>144<br>175 | 100<br>125<br>154 | 49<br>41<br>32                  |  |
| PEMBERTON 3 E             | 36<br>32<br>28                | MAY 01<br>APR 15<br>MAR 30 | MAY 13<br>MAY 01<br>APR 13 | MAY 25<br>MAY 17<br>APR 27 | SEP 21<br>SEP 28<br>OCT 08 | OCT 01<br>OCT 11<br>OCT 23 | OCT 11<br>OCT 24<br>NOV 07 | 156<br>185<br>211       | 140<br>162<br>192 | 125<br>138<br>173 | 40<br>32<br>24                  |  |
| PLAINFIELD                | 36<br>32<br>28                | APR 23<br>APR 05<br>MAR 26 | MAY 06<br>APR 20<br>APR 07 | MAY 19<br>MAY 06<br>APR 18 | SEP 22<br>OCT 04<br>OCT 15 | OCT 07<br>OCT 17<br>OCT 31 | OCT 22<br>OCT 31<br>NOV 15 | 173<br>199<br>223       | 153<br>179<br>206 | 133<br>160<br>189 | 39<br>31<br>22                  |  |
| SHILOH                    | 36<br>32<br>28                | APR 10<br>MAR 31<br>MAR 16 | APR 26<br>APR 14<br>MAR 30 | MAY 12<br>APR 29<br>APR 13 | OCT 02<br>OCT 12<br>OCT 26 | OCT 16<br>OCT 29<br>NOV 10 | OCT 29<br>NOV 14<br>NOV 25 | 195<br>220<br>244       | 172<br>197<br>224 | 149<br>174<br>204 | 35<br>27<br>18                  |  |
| SOMERVILLE 3 NW           | 36<br>32<br>28                | MAY 01<br>APR 15<br>APR 03 | MAY 11<br>MAY 02<br>APR 15 | MAY 22<br>MAY 18<br>APR 26 | SEP 22<br>SEP 28<br>OCT 13 | OCT 02<br>OCT 12<br>OCT 25 | OCT 13<br>OCT 26<br>NOV 07 | 158<br>187<br>211       | 143<br>162<br>193 | 128<br>138<br>175 | 43<br>35<br>26                  |  |
| SUSSEX 1 SE               | 36<br>32<br>28                | MAY 08<br>APR 25<br>APR 09 | MAY 23<br>MAY 09<br>APR 26 | JUN 07<br>MAY 24<br>MAY 12 | SEP 06<br>SEP 16<br>SEP 30 | SEP 19<br>OCT 02<br>OCT 16 | OCT 03<br>OCT 19<br>NOV 02 | 140<br>165<br>200       | 119<br>145<br>173 | 98<br>125<br>146  | 50<br>42<br>34                  |  |
| TRENTON WSO               | 36<br>32<br>28                | APR 05<br>MAR 27<br>MAR 10 | APR 17<br>APR 06<br>APR 24 | APR 29<br>APR 15<br>APR 06 | OCT 11<br>OCT 23<br>NOV 07 | OCT 25<br>NOV 07<br>NOV 21 | NOV 08<br>NOV 22<br>DEC 05 | 208<br>232<br>261       | 190<br>214<br>241 | 172<br>197<br>222 | 32<br>24<br>16                  |  |
| NEW MEXICO                |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| ALAMOGORDO                | 36<br>32<br>28                | APR 06<br>MAR 24<br>MAR 06 | APR 20<br>APR 06<br>MAR 23 | MAY 05<br>APR 19<br>APR 08 | OCT 10<br>OCT 22<br>OCT 31 | OCT 22<br>NOV 02<br>NOV 11 | NOV 02<br>NOV 13<br>NOV 23 | 204<br>226<br>255       | 184<br>209<br>233 | 163<br>192<br>211 | 32<br>23<br>16                  |  |
| AMISTAD 1 SSW             | 36<br>32<br>28                | APR 24<br>APR 13<br>MAR 31 | MAY 07<br>APR 28<br>APR 15 | MAY 20<br>MAY 13<br>APR 30 | SEP 21<br>OCT 06<br>OCT 13 | OCT 07<br>OCT 19<br>OCT 28 | OCT 24<br>NOV 01<br>NOV 12 | 175<br>196<br>216       | 153<br>174<br>196 | 131<br>151<br>175 | 44<br>37<br>28                  |  |
| ARTESIA 6 S               | 36<br>32<br>28                | APR 03<br>MAR 27<br>MAR 15 | APR 20<br>APR 13<br>MAR 31 | MAY 07<br>APR 30<br>APR 16 | OCT 04<br>OCT 12<br>OCT 24 | OCT 19<br>OCT 28<br>NOV 08 | NOV 03<br>NOV 13<br>NOV 23 | 206<br>226<br>246       | 181<br>198<br>221 | 156<br>169<br>196 | 36<br>30<br>22                  |  |
| AZTEC RUINS NAT MON       | 36<br>32<br>28                | MAY 13<br>APR 30<br>APR 15 | MAY 31<br>MAY 20<br>MAY 07 | JUN 18<br>JUN 08<br>MAY 28 | SEP 08<br>SEP 18<br>SEP 28 | SEP 25<br>OCT 06<br>OCT 16 | OCT 11<br>OCT 24<br>NOV 03 | 142<br>168<br>195       | 116<br>139<br>162 | 89<br>109<br>129  | 55<br>47<br>38                  |  |
| BELL RANCH                | 36<br>32<br>28                | APR 20<br>APR 11<br>MAR 30 | MAY 04<br>APR 26<br>APR 13 | MAY 18<br>MAY 10<br>APR 27 | SEP 27<br>OCT 10<br>OCT 16 | OCT 11<br>OCT 21<br>OCT 29 | OCT 24<br>NOV 01<br>NOV 12 | 181<br>194<br>221       | 159<br>178<br>199 | 136<br>161<br>176 | 45<br>39<br>31                  |  |
| BERNALILLO                | 36<br>32<br>28                | MAY 05<br>APR 14<br>APR 02 | MAY 21<br>MAY 05<br>APR 20 | JUN 07<br>MAY 25<br>MAY 09 | SEP 14<br>SEP 26<br>OCT 09 | SEP 29<br>OCT 11<br>OCT 23 | OCT 14<br>OCT 26<br>NOV 07 | 155<br>187<br>213       | 130<br>159<br>185 | 105<br>130<br>157 | 50<br>41<br>33                  |  |
| BITTER LAKES WL REF       | 36<br>32<br>28                | APR 21<br>APR 05<br>MAR 26 | MAY 05<br>APR 22<br>APR 11 | MAY 19<br>MAY 10<br>APR 28 | SEP 25<br>OCT 06<br>OCT 13 | OCT 09<br>OCT 17<br>OCT 25 | OCT 23<br>OCT 27<br>NOV 07 | 179<br>198<br>219       | 156<br>177<br>197 | 132<br>155<br>174 | 42<br>36<br>28                  |  |
| BLOOMFIELD 3 SE           | 36<br>32<br>28                | MAY 01<br>APR 18<br>APR 07 | MAY 16<br>MAY 02<br>APR 23 | MAY 31<br>MAY 16<br>MAY 10 | SEP 21<br>OCT 10<br>OCT 17 | OCT 07<br>OCT 21<br>OCT 30 | OCT 23<br>NOV 01<br>NOV 12 | 165<br>189<br>211       | 143<br>171<br>189 | 121<br>153<br>166 | 48<br>40<br>31                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |     |     | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|-----|-----|---------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |     |     |                                 |  |
|                           |                               | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50  | 90  |                                 |  |
| NEW MEXICO                |                               |                            |        |        |                            |        |        |                            |     |     |                                 |  |
| BOSQUE DEL APACHE         | 36                            | APR 26                     | MAY 09 | MAY 22 | SEP 27                     | OCT 09 | OCT 21 | 171                        | 152 | 133 | 45                              |  |
|                           | 32                            | APR 12                     | MAY 01 | MAY 20 | OCT 06                     | OCT 20 | NOV 03 | 196                        | 171 | 147 | 37                              |  |
|                           | 28                            | MAR 27                     | APR 14 | MAY 01 | OCT 12                     | OCT 26 | NOV 10 | 222                        | 195 | 168 | 30                              |  |
| CABALLO DAM               | 36                            | APR 13                     | APR 29 | MAY 14 | OCT 10                     | OCT 23 | NOV 04 | 198                        | 177 | 155 | 36                              |  |
|                           | 32                            | MAR 27                     | APR 11 | APR 26 | OCT 20                     | OCT 31 | NOV 12 | 225                        | 203 | 180 | 28                              |  |
|                           | 28                            | MAR 04                     | MAR 27 | APR 20 | OCT 30                     | NOV 10 | NOV 22 | 257                        | 227 | 198 | 19                              |  |
| CAMERON                   | 36                            | APR 24                     | MAY 08 | MAY 22 | SEP 22                     | OCT 07 | OCT 21 | 173                        | 151 | 129 | 43                              |  |
|                           | 32                            | APR 17                     | MAY 01 | MAY 16 | SEP 30                     | OCT 17 | NOV 02 | 188                        | 168 | 147 | 35                              |  |
|                           | 28                            | APR 03                     | APR 19 | MAY 06 | OCT 15                     | OCT 29 | NOV 13 | 215                        | 192 | 169 | 27                              |  |
| CARLSBAD FAA AIRPORT      | 36                            | MAR 26                     | APR 09 | APR 23 | OCT 15                     | OCT 29 | NOV 12 | 224                        | 202 | 180 | 27                              |  |
|                           | 32                            | MAR 11                     | MAR 29 | APR 15 | OCT 25                     | NOV 07 | NOV 21 | 247                        | 223 | 199 | 20                              |  |
|                           | 28                            | MAR 02                     | MAR 19 | APR 05 | NOV 01                     | NOV 16 | DEC 01 | 265                        | 242 | 218 | 12                              |  |
| CARLSBAD CAVERNS          | 36                            | MAR 26                     | APR 11 | APR 27 | OCT 18                     | NOV 01 | NOV 16 | 224                        | 203 | 182 | 19                              |  |
|                           | 32                            | MAR 15                     | MAR 30 | APR 14 | OCT 29                     | NOV 12 | NOV 25 | 247                        | 226 | 205 | 13                              |  |
|                           | 28                            | MAR 01                     | MAR 17 | APR 02 | NOV 06                     | NOV 23 | DEC 09 | 274                        | 250 | 226 | 8                               |  |
| CARRIZOZO                 | 36                            | APR 29                     | MAY 13 | MAY 26 | SEP 25                     | OCT 08 | OCT 21 | 167                        | 147 | 127 | 43                              |  |
|                           | 32                            | APR 17                     | APR 30 | MAY 12 | OCT 04                     | OCT 17 | OCT 29 | 189                        | 169 | 149 | 35                              |  |
|                           | 28                            | MAR 31                     | APR 15 | APR 30 | OCT 15                     | OCT 26 | NOV 07 | 216                        | 193 | 171 | 27                              |  |
| CERRO 4 NE                | 36                            | MAY 27                     | JUN 08 | JUN 20 | AUG 28                     | SEP 10 | SEP 23 | 113                        | 93  | 73  | 63                              |  |
|                           | 32                            | MAY 15                     | MAY 30 | JUN 14 | SEP 09                     | SEP 24 | OCT 10 | 142                        | 117 | 91  | 55                              |  |
|                           | 28                            | MAY 04                     | MAY 20 | JUN 05 | SEP 19                     | OCT 03 | OCT 17 | 158                        | 135 | 112 | 46                              |  |
| CHACO CANYON NAT MON      | 36                            | MAY 28                     | JUN 13 | JUN 30 | AUG 30                     | SEP 14 | SEP 29 | 120                        | 92  | 64  | 60                              |  |
|                           | 32                            | MAY 16                     | JUN 04 | JUN 24 | SEP 08                     | SEP 26 | OCT 14 | 143                        | 113 | 83  | 53                              |  |
|                           | 28                            | MAY 04                     | MAY 20 | JUN 05 | SEP 12                     | OCT 02 | OCT 22 | 164                        | 135 | 105 | 45                              |  |
| CHAMA                     | 36                            | JUN 09                     | JUN 25 | JUL 10 | AUG 15                     | SEP 02 | SEP 19 | 97                         | 69  | 40  | 70                              |  |
|                           | 32                            | MAY 30                     | JUN 14 | JUN 29 | AUG 29                     | SEP 14 | SEP 30 | 114                        | 91  | 67  | 61                              |  |
|                           | 28                            | MAY 14                     | JUN 02 | JUN 21 | SEP 11                     | SEP 30 | OCT 19 | 151                        | 119 | 88  | 52                              |  |
| CIMARRON                  | 36                            | MAY 09                     | MAY 25 | JUN 10 | SEP 11                     | SEP 26 | OCT 12 | 151                        | 124 | 97  | 53                              |  |
|                           | 32                            | APR 29                     | MAY 12 | MAY 26 | SEP 17                     | OCT 04 | OCT 20 | 167                        | 144 | 121 | 44                              |  |
|                           | 28                            | APR 15                     | APR 29 | MAY 14 | OCT 01                     | OCT 17 | NOV 02 | 194                        | 170 | 146 | 35                              |  |
| CLAYTON WSO               | 36                            | APR 28                     | MAY 10 | MAY 21 | SEP 19                     | OCT 05 | OCT 22 | 167                        | 148 | 129 | 46                              |  |
|                           | 32                            | APR 19                     | MAY 01 | MAY 13 | OCT 03                     | OCT 16 | OCT 29 | 187                        | 167 | 147 | 39                              |  |
|                           | 28                            | APR 01                     | APR 17 | MAY 03 | OCT 12                     | OCT 26 | NOV 09 | 209                        | 191 | 173 | 31                              |  |
| CLIFF 10 SE               | 36                            | MAY 11                     | MAY 25 | JUN 08 | SEP 23                     | OCT 06 | OCT 19 | 154                        | 133 | 112 | 50                              |  |
|                           | 32                            | APR 30                     | MAY 12 | MAY 23 | OCT 03                     | OCT 16 | OCT 29 | 173                        | 157 | 140 | 41                              |  |
|                           | 28                            | APR 12                     | APR 28 | MAY 15 | OCT 14                     | OCT 26 | NOV 08 | 201                        | 180 | 160 | 32                              |  |
| CLOVIS                    | 36                            | APR 21                     | MAY 03 | MAY 16 | SEP 27                     | OCT 13 | OCT 28 | 184                        | 162 | 139 | 40                              |  |
|                           | 32                            | APR 02                     | APR 18 | MAY 04 | OCT 12                     | OCT 25 | NOV 07 | 207                        | 189 | 171 | 32                              |  |
|                           | 28                            | MAR 24                     | APR 07 | APR 21 | OCT 16                     | NOV 02 | NOV 18 | 230                        | 208 | 186 | 23                              |  |
| CLOVIS 13 N               | 36                            | APR 22                     | MAY 04 | MAY 16 | SEP 26                     | OCT 10 | OCT 24 | 179                        | 158 | 137 | 42                              |  |
|                           | 32                            | APR 10                     | APR 26 | MAY 12 | OCT 10                     | OCT 23 | NOV 05 | 201                        | 179 | 157 | 34                              |  |
|                           | 28                            | MAR 28                     | APR 12 | APR 28 | OCT 13                     | OCT 31 | NOV 17 | 227                        | 201 | 174 | 25                              |  |
| COLUMBUS                  | 36                            | APR 08                     | APR 22 | MAY 06 | OCT 11                     | OCT 21 | OCT 31 | 201                        | 181 | 162 | 33                              |  |
|                           | 32                            | MAR 21                     | APR 08 | APR 27 | OCT 19                     | NOV 01 | NOV 14 | 230                        | 206 | 182 | 24                              |  |
|                           | 28                            | MAR 11                     | MAR 28 | APR 15 | OCT 27                     | NOV 08 | NOV 20 | 248                        | 224 | 200 | 17                              |  |
| CONCHAS DAM               | 36                            | APR 07                     | APR 21 | MAY 05 | OCT 08                     | OCT 23 | NOV 07 | 200                        | 185 | 169 | 35                              |  |
|                           | 32                            | APR 02                     | APR 14 | APR 26 | OCT 18                     | NOV 01 | NOV 16 | 218                        | 201 | 183 | 28                              |  |
|                           | 28                            | MAR 18                     | MAR 31 | APR 13 | OCT 29                     | NOV 11 | NOV 24 | 242                        | 224 | 206 | 19                              |  |
| CUBA                      | 36                            | MAY 30                     | JUN 15 | JUL 01 | AUG 26                     | SEP 12 | SEP 29 | 115                        | 88  | 62  | 65                              |  |
|                           | 32                            | MAY 23                     | JUN 06 | JUN 21 | SEP 05                     | SEP 21 | OCT 07 | 129                        | 106 | 83  | 57                              |  |
|                           | 28                            | MAY 03                     | MAY 23 | JUN 11 | SEP 17                     | OCT 02 | OCT 17 | 160                        | 132 | 103 | 49                              |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                 |  |
| NEW MEXICO                |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                 |  |
| DES MOINES                | 36<br>32<br>28                | MAY 16<br>APR 30<br>APR 22 | MAY 31<br>MAY 15<br>MAY 02 | JUN 15<br>MAY 31<br>MAY 12 | SEP 10<br>SEP 17<br>SEP 25 | SEP 23<br>OCT 03<br>OCT 12 | OCT 06<br>OCT 18<br>OCT 29 | 134<br>163<br>183          | 114<br>140<br>162 | 94<br>117<br>141  | 53<br>46<br>37                  |  |
| EAGLE NEST                | 36<br>32<br>28                | JUL 01<br>JUN 17<br>MAY 31 | JUL 15<br>JUL 02<br>JUN 16 | JUL 29<br>JUL 17<br>JUL 02 | JUL 31<br>AUG 07<br>AUG 26 | AUG 13<br>AUG 21<br>SEP 08 | AUG 27<br>SEP 04<br>SEP 22 | 51<br>72<br>107            | 28<br>49<br>84    | 6<br>26<br>60     | 79<br>70<br>61                  |  |
| EL MORRO NAT MON          | 36<br>32<br>28                | JUN 03<br>MAY 25<br>MAY 06 | JUN 15<br>JUN 06<br>MAY 21 | JUN 27<br>JUN 19<br>JUN 04 | AUG 25<br>SEP 11<br>SEP 18 | SEP 12<br>SEP 25<br>OCT 02 | SEP 30<br>OCT 09<br>OCT 17 | 111<br>129<br>154          | 88<br>92<br>134   | 66<br>55<br>113   | 63<br>55<br>46                  |  |
| EL VADO DAM               | 36<br>32<br>28                | JUN 07<br>JUN 01<br>MAY 14 | JUN 24<br>JUN 15<br>MAY 30 | JUL 12<br>JUN 29<br>JUN 16 | AUG 16<br>AUG 26<br>SEP 09 | AUG 31<br>SEP 11<br>SEP 23 | SEP 15<br>SEP 26<br>OCT 07 | 92<br>109<br>139           | 67<br>87<br>115   | 42<br>65<br>91    | 69<br>60<br>52                  |  |
| ELEPHANT BUTTE DAM        | 36<br>32<br>28                | APR 01<br>MAR 15<br>FEB 24 | APR 16<br>MAR 30<br>MAR 15 | APR 30<br>APR 14<br>APR 03 | OCT 21<br>OCT 29<br>NOV 07 | NOV 02<br>NOV 10<br>NOV 19 | NOV 15<br>NOV 23<br>DEC 02 | 220<br>248<br>273          | 200<br>225<br>248 | 180<br>201<br>224 | 30<br>21<br>13                  |  |
| ELIDA                     | 36<br>32<br>28                | APR 19<br>APR 04<br>MAR 30 | MAY 02<br>APR 22<br>APR 11 | MAY 14<br>MAY 09<br>APR 24 | SEP 25<br>OCT 03<br>OCT 15 | OCT 12<br>OCT 21<br>OCT 31 | OCT 28<br>NOV 07<br>NOV 16 | 186<br>203<br>222          | 162<br>181<br>202 | 138<br>159<br>181 | 39<br>31<br>23                  |  |
| ELK 3 E                   | 36<br>32<br>28                | MAY 03<br>APR 23<br>APR 08 | MAY 16<br>MAY 05<br>APR 22 | MAY 30<br>MAY 18<br>MAY 07 | SEP 18<br>OCT 03<br>OCT 10 | OCT 02<br>OCT 14<br>OCT 23 | OCT 15<br>OCT 26<br>NOV 05 | 158<br>179<br>206          | 138<br>162<br>183 | 117<br>144<br>160 | 48<br>40<br>31                  |  |
| ESTANCIA                  | 36<br>32<br>28                | MAY 22<br>MAY 08<br>APR 28 | JUN 04<br>MAY 24<br>MAY 12 | JUN 17<br>JUN 08<br>MAY 26 | SEP 05<br>SEP 16<br>SEP 24 | SEP 20<br>SEP 29<br>OCT 08 | OCT 05<br>OCT 12<br>OCT 22 | 127<br>149<br>167          | 107<br>127<br>148 | 87<br>106<br>130  | 57<br>49<br>40                  |  |
| FLORIDA                   | 36<br>32<br>28                | MAY 03<br>APR 14<br>APR 04 | MAY 16<br>APR 30<br>APR 20 | MAY 29<br>MAY 16<br>MAY 05 | OCT 04<br>OCT 13<br>OCT 21 | OCT 15<br>OCT 23<br>NOV 02 | OCT 26<br>NOV 03<br>NOV 13 | 168<br>197<br>217          | 151<br>176<br>195 | 134<br>154<br>172 | 43<br>35<br>26                  |  |
| FORT BAYARD               | 36<br>32<br>28                | MAY 02<br>APR 16<br>APR 06 | MAY 19<br>MAY 01<br>APR 22 | JUN 04<br>MAY 17<br>MAY 08 | SEP 27<br>OCT 09<br>OCT 21 | OCT 12<br>OCT 23<br>NOV 01 | OCT 26<br>NOV 07<br>NOV 12 | 169<br>195<br>211          | 146<br>174<br>192 | 123<br>153<br>174 | 45<br>35<br>25                  |  |
| FORT SUMNER               | 36<br>32<br>28                | APR 16<br>APR 02<br>MAR 22 | APR 30<br>APR 17<br>APR 05 | MAY 15<br>MAY 03<br>APR 20 | SEP 28<br>OCT 09<br>OCT 17 | OCT 12<br>OCT 22<br>NOV 02 | OCT 26<br>NOV 03<br>NOV 19 | 187<br>208<br>234          | 164<br>187<br>210 | 141<br>166<br>187 | 40<br>32<br>24                  |  |
| FRUITLAND 2 E             | 36<br>32<br>28                | MAY 07<br>APR 24<br>APR 15 | MAY 27<br>MAY 17<br>MAY 02 | JUN 17<br>JUN 09<br>MAY 19 | SEP 03<br>SEP 15<br>SEP 23 | SEP 25<br>OCT 05<br>OCT 14 | OCT 17<br>OCT 25<br>NOV 05 | 154<br>175<br>196          | 120<br>140<br>165 | 86<br>106<br>133  | 52<br>45<br>37                  |  |
| GALLUP 5 E                | 36<br>32<br>28                | MAY 22<br>MAY 06<br>APR 23 | JUN 09<br>MAY 26<br>MAY 11 | JUN 27<br>JUN 14<br>MAY 29 | SEP 02<br>SEP 15<br>SEP 23 | SEP 19<br>SEP 29<br>OCT 09 | OCT 06<br>OCT 13<br>OCT 24 | 128<br>153<br>176          | 101<br>126<br>150 | 74<br>99<br>123   | 59<br>52<br>42                  |  |
| GRAN QUIVIRA NAT MON      | 36<br>32<br>28                | MAY 05<br>APR 24<br>APR 08 | MAY 17<br>MAY 07<br>APR 25 | MAY 29<br>MAY 20<br>MAY 12 | SEP 19<br>SEP 28<br>OCT 11 | OCT 04<br>OCT 11<br>OCT 23 | OCT 19<br>OCT 25<br>NOV 03 | 161<br>179<br>202          | 139<br>157<br>180 | 118<br>135<br>157 | 48<br>40<br>30                  |  |
| GRENVILLE                 | 36<br>32<br>28                | MAY 07<br>APR 28<br>APR 16 | MAY 20<br>MAY 10<br>APR 30 | JUN 03<br>MAY 21<br>MAY 13 | SEP 12<br>SEP 17<br>SEP 27 | SEP 29<br>OCT 04<br>OCT 15 | OCT 16<br>OCT 21<br>NOV 02 | 151<br>168<br>190          | 131<br>147<br>168 | 110<br>126<br>146 | 52<br>45<br>36                  |  |
| HATCH 2 W                 | 36<br>32<br>28                | APR 18<br>APR 02<br>MAR 14 | MAY 02<br>APR 18<br>APR 01 | MAY 16<br>MAY 05<br>APR 19 | OCT 03<br>OCT 11<br>OCT 22 | OCT 15<br>OCT 23<br>NOV 03 | OCT 26<br>NOV 04<br>NOV 15 | 185<br>211<br>242          | 165<br>187<br>216 | 145<br>163<br>190 | 41<br>33<br>25                  |  |
| HOBBS                     | 36<br>32<br>28                | MAR 28<br>MAR 24<br>MAR 08 | APR 13<br>APR 04<br>MAR 23 | APR 28<br>APR 15<br>APR 07 | OCT 13<br>OCT 21<br>NOV 03 | OCT 28<br>NOV 07<br>NOV 16 | NOV 12<br>NOV 23<br>NOV 29 | 219<br>237<br>258          | 198<br>216<br>237 | 176<br>196<br>216 | 29<br>21<br>13                  |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |     |     | FREEZE/FROST<br>PROBABILITY<br>(%) |  |
|---------------------------|-------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|-----|-----|------------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |     |     |                                    |  |
|                           |                               | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50  | 90  |                                    |  |
| NEW MEXICO                |                               |                            |        |        |                            |        |        |                            |     |     |                                    |  |
| JAL                       | 36                            | MAR 28                     | APR 12 | APR 27 | OCT 12                     | OCT 27 | NOV 11 | 220                        | 197 | 174 | 29                                 |  |
|                           | 32                            | MAR 16                     | APR 01 | APR 17 | OCT 17                     | NOV 02 | NOV 17 | 240                        | 214 | 189 | 22                                 |  |
|                           | 28                            | MAR 06                     | MAR 19 | APR 01 | OCT 25                     | NOV 10 | NOV 27 | 260                        | 236 | 211 | 15                                 |  |
| JEMEZ SPRINGS             | 36                            | MAY 05                     | MAY 21 | JUN 06 | SEP 21                     | OCT 08 | OCT 26 | 166                        | 140 | 113 | 49                                 |  |
|                           | 32                            | APR 20                     | MAY 05 | MAY 20 | OCT 03                     | OCT 16 | OCT 30 | 186                        | 164 | 142 | 40                                 |  |
|                           | 28                            | APR 02                     | APR 19 | MAY 06 | OCT 16                     | OCT 29 | NOV 11 | 216                        | 193 | 170 | 29                                 |  |
| JORNADA EXP RANGE         | 36                            | APR 30                     | MAY 17 | JUN 02 | SEP 25                     | OCT 09 | OCT 22 | 169                        | 144 | 120 | 45                                 |  |
|                           | 32                            | APR 20                     | MAY 06 | MAY 21 | OCT 02                     | OCT 19 | NOV 05 | 187                        | 166 | 144 | 38                                 |  |
|                           | 28                            | APR 07                     | APR 26 | MAY 16 | OCT 10                     | OCT 24 | NOV 08 | 203                        | 180 | 158 | 30                                 |  |
| LAGUNA                    | 36                            | MAY 08                     | MAY 20 | MAY 31 | SEP 14                     | OCT 01 | OCT 18 | 153                        | 134 | 115 | 50                                 |  |
|                           | 32                            | APR 25                     | MAY 08 | MAY 20 | SEP 27                     | OCT 12 | OCT 26 | 178                        | 156 | 134 | 42                                 |  |
|                           | 28                            | APR 09                     | APR 24 | MAY 09 | OCT 05                     | OCT 21 | NOV 05 | 204                        | 179 | 154 | 33                                 |  |
| LAKE MALOYA               | 36                            | MAY 26                     | JUN 10 | JUN 25 | AUG 29                     | SEP 12 | SEP 25 | 112                        | 93  | 73  | 64                                 |  |
|                           | 32                            | MAY 14                     | MAY 29 | JUN 12 | SEP 09                     | SEP 22 | OCT 04 | 136                        | 115 | 94  | 56                                 |  |
|                           | 28                            | MAY 01                     | MAY 13 | MAY 26 | SEP 13                     | OCT 01 | OCT 19 | 162                        | 140 | 119 | 48                                 |  |
| LAS VEGAS FAA AIRPORT     | 36                            | MAY 13                     | MAY 24 | JUN 03 | SEP 15                     | SEP 29 | OCT 12 | 146                        | 127 | 109 | 54                                 |  |
|                           | 32                            | APR 30                     | MAY 15 | MAY 29 | SEP 22                     | OCT 06 | OCT 20 | 167                        | 144 | 120 | 46                                 |  |
|                           | 28                            | APR 20                     | MAY 02 | MAY 14 | OCT 02                     | OCT 16 | OCT 30 | 186                        | 166 | 146 | 37                                 |  |
| LORDSBURG 4 SE            | 36                            | APR 17                     | MAY 06 | MAY 25 | OCT 11                     | OCT 23 | NOV 03 | 194                        | 169 | 145 | 38                                 |  |
|                           | 32                            | MAR 31                     | APR 22 | MAY 15 | OCT 16                     | OCT 30 | NOV 14 | 221                        | 191 | 160 | 30                                 |  |
|                           | 28                            | MAR 12                     | APR 07 | MAY 03 | OCT 27                     | NOV 08 | NOV 21 | 247                        | 215 | 182 | 21                                 |  |
| LOS ALAMOS                | 36                            | MAY 09                     | MAY 23 | JUN 06 | SEP 17                     | OCT 02 | OCT 18 | 154                        | 131 | 109 | 50                                 |  |
|                           | 32                            | APR 21                     | MAY 08 | MAY 26 | SEP 30                     | OCT 13 | OCT 27 | 180                        | 157 | 135 | 42                                 |  |
|                           | 28                            | APR 10                     | APR 26 | MAY 12 | OCT 09                     | OCT 24 | NOV 08 | 204                        | 180 | 157 | 33                                 |  |
| MALJAMAR 4 SE             | 36                            | APR 05                     | APR 22 | MAY 10 | SEP 30                     | OCT 19 | NOV 07 | 209                        | 179 | 149 | 34                                 |  |
|                           | 32                            | MAR 24                     | APR 10 | APR 26 | OCT 10                     | OCT 29 | NOV 16 | 227                        | 201 | 175 | 26                                 |  |
|                           | 28                            | MAR 16                     | APR 02 | APR 18 | OCT 15                     | NOV 04 | NOV 24 | 244                        | 216 | 187 | 18                                 |  |
| MC GAFFEY 4 SE            | 36                            | JUN 08                     | JUN 22 | JUL 06 | AUG 14                     | SEP 01 | SEP 19 | 97                         | 70  | 43  | 70                                 |  |
|                           | 32                            | MAY 30                     | JUN 13 | JUN 26 | SEP 03                     | SEP 17 | OCT 02 | 114                        | 96  | 77  | 62                                 |  |
|                           | 28                            | MAY 15                     | MAY 31 | JUN 16 | SEP 12                     | SEP 26 | OCT 10 | 138                        | 117 | 97  | 52                                 |  |
| MELROSE                   | 36                            | APR 22                     | MAY 04 | MAY 16 | SEP 26                     | OCT 11 | OCT 26 | 181                        | 159 | 137 | 41                                 |  |
|                           | 32                            | APR 09                     | APR 25 | MAY 10 | OCT 08                     | OCT 21 | NOV 04 | 197                        | 179 | 161 | 33                                 |  |
|                           | 28                            | MAR 27                     | APR 11 | APR 25 | OCT 17                     | NOV 01 | NOV 17 | 228                        | 204 | 179 | 25                                 |  |
| MOUNTAIN PARK             | 36                            | APR 29                     | MAY 16 | JUN 02 | SEP 28                     | OCT 13 | OCT 27 | 175                        | 149 | 122 | 43                                 |  |
|                           | 32                            | APR 17                     | MAY 01 | MAY 14 | OCT 06                     | OCT 22 | NOV 08 | 197                        | 174 | 151 | 33                                 |  |
|                           | 28                            | APR 08                     | APR 23 | MAY 08 | OCT 10                     | OCT 30 | NOV 20 | 215                        | 190 | 164 | 23                                 |  |
| MOUNTAINAIR               | 36                            | MAY 10                     | MAY 27 | JUN 13 | SEP 10                     | SEP 28 | OCT 16 | 151                        | 123 | 95  | 53                                 |  |
|                           | 32                            | APR 27                     | MAY 14 | MAY 30 | SEP 18                     | OCT 05 | OCT 22 | 168                        | 144 | 120 | 45                                 |  |
|                           | 28                            | APR 16                     | MAY 04 | MAY 22 | SEP 28                     | OCT 16 | NOV 02 | 192                        | 164 | 136 | 35                                 |  |
| PASAMONTE                 | 36                            | MAY 06                     | MAY 23 | JUN 08 | SEP 12                     | SEP 26 | OCT 09 | 147                        | 125 | 103 | 53                                 |  |
|                           | 32                            | APR 25                     | MAY 11 | MAY 26 | SEP 20                     | OCT 07 | OCT 23 | 172                        | 148 | 124 | 46                                 |  |
|                           | 28                            | APR 15                     | APR 29 | MAY 12 | SEP 25                     | OCT 13 | OCT 31 | 191                        | 167 | 142 | 38                                 |  |
| PEARL                     | 36                            | APR 04                     | APR 18 | MAY 02 | OCT 06                     | OCT 21 | NOV 05 | 209                        | 186 | 162 | 32                                 |  |
|                           | 32                            | MAR 25                     | APR 09 | APR 23 | OCT 17                     | NOV 01 | NOV 17 | 229                        | 206 | 182 | 25                                 |  |
|                           | 28                            | MAR 16                     | MAR 30 | APR 14 | OCT 25                     | NOV 10 | NOV 27 | 248                        | 224 | 200 | 17                                 |  |
| PORTALES                  | 36                            | APR 22                     | MAY 03 | MAY 14 | SEP 24                     | OCT 09 | OCT 24 | 178                        | 158 | 138 | 40                                 |  |
|                           | 32                            | APR 09                     | APR 24 | MAY 09 | OCT 05                     | OCT 19 | NOV 01 | 200                        | 177 | 155 | 33                                 |  |
|                           | 28                            | MAR 29                     | APR 10 | APR 23 | OCT 16                     | OCT 31 | NOV 15 | 224                        | 203 | 183 | 25                                 |  |
| QUEMADO RANGER STATION    | 36                            | JUN 10                     | JUN 22 | JUL 05 | AUG 22                     | SEP 07 | SEP 23 | 97                         | 76  | 55  | 67                                 |  |
|                           | 32                            | MAY 28                     | JUN 11 | JUN 25 | SEP 12                     | SEP 23 | OCT 04 | 118                        | 103 | 89  | 58                                 |  |
|                           | 28                            | MAY 15                     | MAY 30 | JUN 15 | SEP 18                     | SEP 30 | OCT 12 | 140                        | 122 | 105 | 50                                 |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| NEW MEXICO                |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| RED RIVER                 | 36                            | JUN 29                  | JUL 15 | JUL 30 | AUG 01                  | AUG 13 | AUG 24 | 51                      | 28  | 6   | 80                                |  |
|                           | 32                            | JUN 12                  | JUN 25 | JUL 09 | AUG 13                  | AUG 28 | SEP 12 | 83                      | 63  | 43  | 71                                |  |
|                           | 28                            | JUN 01                  | JUN 13 | JUN 26 | SEP 02                  | SEP 13 | SEP 24 | 108                     | 91  | 74  | 61                                |  |
| ROY                       | 36                            | MAY 04                  | MAY 17 | MAY 30 | SEP 14                  | OCT 02 | OCT 19 | 160                     | 137 | 113 | 50                                |  |
|                           | 32                            | APR 24                  | MAY 06 | MAY 17 | SEP 25                  | OCT 10 | OCT 26 | 178                     | 157 | 136 | 42                                |  |
|                           | 28                            | APR 10                  | APR 26 | MAY 12 | OCT 09                  | OCT 21 | NOV 03 | 196                     | 178 | 160 | 34                                |  |
| RUIDOSO 2 NNE             | 36                            | JUN 02                  | JUN 20 | JUL 08 | AUG 22                  | SEP 10 | SEP 30 | 107                     | 81  | 55  | 63                                |  |
|                           | 32                            | MAY 25                  | JUN 11 | JUN 28 | AUG 31                  | SEP 19 | OCT 08 | 124                     | 100 | 75  | 54                                |  |
|                           | 28                            | MAY 08                  | MAY 27 | JUN 14 | SEP 16                  | OCT 02 | OCT 18 | 158                     | 127 | 97  | 44                                |  |
| SAN JON                   | 36                            | APR 20                  | MAY 03 | MAY 17 | SEP 26                  | OCT 11 | OCT 26 | 178                     | 160 | 142 | 38                                |  |
|                           | 32                            | APR 07                  | APR 23 | MAY 09 | OCT 06                  | OCT 20 | NOV 02 | 199                     | 179 | 158 | 31                                |  |
|                           | 28                            | MAR 28                  | APR 12 | APR 28 | OCT 18                  | OCT 31 | NOV 13 | 221                     | 201 | 181 | 24                                |  |
| SANTA ROSA                | 36                            | APR 20                  | MAY 03 | MAY 16 | SEP 27                  | OCT 12 | OCT 27 | 185                     | 161 | 138 | 39                                |  |
|                           | 32                            | APR 06                  | APR 21 | MAY 07 | OCT 09                  | OCT 21 | NOV 02 | 201                     | 182 | 164 | 30                                |  |
|                           | 28                            | MAR 23                  | APR 07 | APR 23 | OCT 18                  | NOV 01 | NOV 15 | 228                     | 208 | 187 | 22                                |  |
| SOCORRO                   | 36                            | APR 20                  | MAY 06 | MAY 22 | SEP 27                  | OCT 11 | OCT 25 | 181                     | 157 | 133 | 42                                |  |
|                           | 32                            | APR 05                  | APR 23 | MAY 11 | OCT 11                  | OCT 23 | NOV 04 | 206                     | 182 | 158 | 35                                |  |
|                           | 28                            | MAR 25                  | APR 11 | APR 28 | OCT 13                  | OCT 28 | NOV 13 | 228                     | 200 | 171 | 27                                |  |
| SPRINGER                  | 36                            | MAY 10                  | MAY 25 | JUN 09 | SEP 12                  | SEP 23 | OCT 04 | 141                     | 120 | 100 | 56                                |  |
|                           | 32                            | MAY 01                  | MAY 15 | MAY 30 | SEP 18                  | OCT 01 | OCT 14 | 158                     | 138 | 119 | 49                                |  |
|                           | 28                            | APR 19                  | MAY 03 | MAY 18 | SEP 26                  | OCT 11 | OCT 27 | 182                     | 161 | 139 | 41                                |  |
| STATE UNIVERSITY          | 36                            | APR 11                  | APR 25 | MAY 09 | OCT 09                  | OCT 20 | NOV 01 | 198                     | 178 | 158 | 36                                |  |
|                           | 32                            | MAR 25                  | APR 12 | APR 30 | OCT 18                  | OCT 30 | NOV 12 | 225                     | 201 | 176 | 27                                |  |
|                           | 28                            | MAR 09                  | MAR 28 | APR 16 | OCT 28                  | NOV 09 | NOV 20 | 252                     | 225 | 198 | 19                                |  |
| TAJIQUE                   | 36                            | MAY 20                  | JUN 01 | JUN 13 | SEP 10                  | SEP 23 | OCT 07 | 133                     | 114 | 95  | 56                                |  |
|                           | 32                            | MAY 09                  | MAY 21 | JUN 02 | SEP 17                  | OCT 03 | OCT 18 | 155                     | 134 | 113 | 47                                |  |
|                           | 28                            | APR 25                  | MAY 08 | MAY 20 | SEP 27                  | OCT 13 | OCT 28 | 178                     | 157 | 136 | 36                                |  |
| TOHATCHI 1 ESE            | 36                            | APR 30                  | MAY 17 | JUN 02 | SEP 24                  | OCT 10 | OCT 26 | 169                     | 146 | 123 | 47                                |  |
|                           | 32                            | APR 22                  | MAY 08 | MAY 24 | OCT 05                  | OCT 20 | NOV 05 | 188                     | 164 | 141 | 39                                |  |
|                           | 28                            | APR 04                  | APR 26 | MAY 18 | OCT 14                  | OCT 29 | NOV 12 | 210                     | 185 | 160 | 29                                |  |
| TRUTH OR CONSEQUENCES     | 36                            | APR 05                  | APR 18 | MAY 01 | OCT 16                  | OCT 28 | NOV 10 | 212                     | 192 | 173 | 32                                |  |
|                           | 32                            | MAR 22                  | APR 05 | APR 19 | OCT 24                  | NOV 05 | NOV 17 | 235                     | 213 | 190 | 24                                |  |
|                           | 28                            | FEB 28                  | MAR 20 | APR 09 | NOV 01                  | NOV 14 | NOV 27 | 264                     | 238 | 212 | 15                                |  |
| TUCUMCARI 3 NE            | 36                            | APR 18                  | MAY 01 | MAY 14 | SEP 30                  | OCT 15 | OCT 29 | 186                     | 166 | 147 | 37                                |  |
|                           | 32                            | APR 05                  | APR 19 | MAY 02 | OCT 11                  | OCT 25 | NOV 08 | 207                     | 189 | 171 | 30                                |  |
|                           | 28                            | MAR 27                  | APR 09 | APR 23 | OCT 20                  | NOV 03 | NOV 17 | 227                     | 207 | 187 | 22                                |  |
| VALMORA                   | 36                            | MAY 21                  | JUN 05 | JUN 21 | SEP 07                  | SEP 20 | OCT 03 | 125                     | 106 | 88  | 59                                |  |
|                           | 32                            | MAY 04                  | MAY 18 | JUN 02 | SEP 16                  | SEP 29 | OCT 12 | 155                     | 133 | 111 | 52                                |  |
|                           | 28                            | APR 22                  | MAY 06 | MAY 19 | SEP 24                  | OCT 08 | OCT 23 | 175                     | 155 | 134 | 43                                |  |
| WHITE SANDS NAT MON       | 36                            | APR 23                  | MAY 09 | MAY 25 | SEP 29                  | OCT 11 | OCT 23 | 175                     | 154 | 133 | 42                                |  |
|                           | 32                            | APR 12                  | APR 28 | MAY 13 | OCT 09                  | OCT 19 | OCT 29 | 194                     | 174 | 153 | 35                                |  |
|                           | 28                            | APR 02                  | APR 18 | MAY 04 | OCT 10                  | OCT 25 | NOV 09 | 214                     | 189 | 164 | 27                                |  |
| WINSTON                   | 36                            | MAY 21                  | JUN 01 | JUN 13 | SEP 14                  | SEP 27 | OCT 10 | 133                     | 117 | 100 | 56                                |  |
|                           | 32                            | MAY 04                  | MAY 18 | MAY 31 | SEP 25                  | OCT 08 | OCT 21 | 163                     | 143 | 122 | 47                                |  |
|                           | 28                            | APR 21                  | MAY 04 | MAY 17 | OCT 03                  | OCT 16 | OCT 30 | 182                     | 164 | 146 | 38                                |  |
| WOLF CANYON               | 36                            | JUN 27                  | JUL 10 | JUL 23 | AUG 02                  | AUG 17 | AUG 31 | 56                      | 37  | 18  | 78                                |  |
|                           | 32                            | JUN 12                  | JUN 29 | JUL 15 | AUG 13                  | AUG 29 | SEP 14 | 83                      | 61  | 38  | 70                                |  |
|                           | 28                            | MAY 30                  | JUN 15 | JUL 01 | AUG 29                  | SEP 13 | SEP 28 | 113                     | 89  | 65  | 60                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| NEW YORK                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ALBANY WSO                | 36<br>32<br>28                | MAY 06<br>APR 21<br>APR 10 | MAY 21<br>MAY 07<br>APR 23 | JUN 05<br>MAY 24<br>MAY 05 | SEP 12<br>SEP 19<br>OCT 03 | SEP 24<br>SEP 29<br>OCT 15 | OCT 06<br>OCT 10<br>OCT 28 | 145<br>163<br>192       | 126<br>144<br>175 | 107<br>126<br>158 | 48<br>41<br>32                    |  |
| ALCOVE DAM                | 36<br>32<br>28                | MAY 14<br>MAY 07<br>APR 19 | JUN 01<br>MAY 22<br>MAY 06 | JUN 18<br>JUN 06<br>MAY 22 | AUG 27<br>SEP 07<br>SEP 24 | SEP 13<br>SEP 21<br>OCT 07 | SEP 30<br>OCT 06<br>OCT 20 | 129<br>145<br>176       | 103<br>122<br>154 | 77<br>99<br>132   | 53<br>47<br>38                    |  |
| ALFRED                    | 36<br>32<br>28                | MAY 21<br>MAY 06<br>APR 21 | JUN 03<br>MAY 19<br>MAY 07 | JUN 17<br>JUN 02<br>MAY 23 | AUG 22<br>SEP 11<br>SEP 22 | SEP 10<br>SEP 25<br>OCT 09 | SEP 29<br>OCT 08<br>OCT 25 | 120<br>149<br>180       | 98<br>127<br>154  | 76<br>106<br>128  | 52<br>45<br>36                    |  |
| ALLEGANY STATE PARK       | 36<br>32<br>28                | MAY 22<br>MAY 10<br>APR 23 | JUN 11<br>MAY 28<br>MAY 14 | JUN 30<br>JUN 15<br>JUN 03 | AUG 19<br>SEP 03<br>SEP 25 | SEP 08<br>SEP 23<br>OCT 11 | SEP 28<br>OCT 14<br>OCT 28 | 118<br>143<br>178       | 89<br>118<br>150  | 59<br>92<br>121   | 54<br>46<br>36                    |  |
| ANGELICA                  | 36<br>32<br>28                | MAY 26<br>MAY 13<br>APR 27 | JUN 16<br>MAY 30<br>MAY 15 | JUL 08<br>JUN 17<br>JUN 01 | AUG 08<br>AUG 29<br>SEP 11 | AUG 29<br>SEP 16<br>OCT 01 | SEP 18<br>OCT 04<br>OCT 20 | 104<br>135<br>166       | 73<br>108<br>138  | 42<br>81<br>110   | 54<br>47<br>37                    |  |
| BAINBRIDGE                | 36<br>32<br>28                | MAY 18<br>MAY 06<br>APR 27 | JUN 02<br>MAY 19<br>MAY 08 | JUN 17<br>JUN 02<br>MAY 20 | SEP 04<br>SEP 12<br>SEP 25 | SEP 18<br>OCT 26<br>OCT 10 | OCT 02<br>OCT 10<br>OCT 25 | 131<br>148<br>171       | 107<br>129<br>154 | 83<br>109<br>137  | 51<br>44<br>35                    |  |
| BATAVIA                   | 36<br>32<br>28                | MAY 06<br>APR 22<br>APR 10 | MAY 21<br>MAY 06<br>MAY 02 | JUN 04<br>MAY 20<br>MAY 02 | SEP 09<br>SEP 23<br>OCT 06 | SEP 23<br>OCT 08<br>OCT 24 | OCT 07<br>OCT 24<br>NOV 10 | 146<br>175<br>205       | 125<br>154<br>185 | 103<br>133<br>164 | 47<br>40<br>31                    |  |
| BOONVILLE 2 SSW           | 36<br>32<br>28                | MAY 10<br>APR 30<br>APR 15 | JUN 02<br>MAY 17<br>APR 30 | JUN 24<br>JUN 04<br>MAY 14 | AUG 30<br>SEP 16<br>SEP 25 | SEP 16<br>SEP 30<br>OCT 10 | OCT 04<br>OCT 14<br>OCT 24 | 141<br>158<br>185       | 106<br>135<br>162 | 71<br>112<br>140  | 53<br>46<br>38                    |  |
| BRIDGEHAMPTON             | 36<br>32<br>28                | APR 18<br>APR 08<br>MAR 20 | MAY 01<br>APR 19<br>APR 02 | MAY 15<br>APR 30<br>APR 15 | OCT 01<br>OCT 12<br>OCT 26 | OCT 15<br>OCT 27<br>NOV 11 | OCT 28<br>NOV 12<br>NOV 26 | 183<br>211<br>241       | 165<br>191<br>222 | 148<br>171<br>204 | 37<br>29<br>20                    |  |
| BROCKPORT 2 NW            | 36<br>32<br>28                | MAY 05<br>APR 21<br>APR 09 | MAY 19<br>MAY 07<br>APR 22 | JUN 01<br>MAY 22<br>MAY 05 | SEP 16<br>SEP 28<br>OCT 10 | SEP 30<br>OCT 12<br>OCT 26 | OCT 14<br>OCT 27<br>NOV 12 | 154<br>181<br>210       | 134<br>158<br>187 | 113<br>135<br>163 | 47<br>39<br>30                    |  |
| CANANDAIGUA 3 S           | 36<br>32<br>28                | MAY 05<br>APR 19<br>APR 07 | MAY 18<br>MAY 04<br>APR 22 | JUN 01<br>MAY 19<br>MAY 07 | SEP 19<br>OCT 06<br>OCT 14 | OCT 05<br>OCT 18<br>OCT 31 | OCT 20<br>OCT 31<br>NOV 18 | 161<br>186<br>216       | 139<br>167<br>192 | 116<br>147<br>167 | 46<br>38<br>30                    |  |
| CANTON 4 SE               | 36<br>32<br>28                | MAY 17<br>MAY 05<br>APR 15 | JUN 02<br>MAY 20<br>MAY 02 | JUN 18<br>JUN 05<br>MAY 20 | AUG 25<br>SEP 06<br>SEP 21 | SEP 12<br>SEP 21<br>OCT 06 | SEP 30<br>OCT 07<br>OCT 22 | 126<br>146<br>179       | 101<br>123<br>156 | 75<br>101<br>133  | 53<br>46<br>38                    |  |
| CARMEL 1 SW               | 36<br>32<br>28                | MAY 07<br>APR 20<br>APR 05 | MAY 22<br>MAY 06<br>APR 19 | JUN 06<br>MAY 22<br>MAY 03 | SEP 13<br>SEP 20<br>OCT 09 | SEP 26<br>OCT 07<br>OCT 22 | OCT 10<br>OCT 24<br>NOV 03 | 147<br>176<br>204       | 127<br>153<br>185 | 106<br>131<br>166 | 48<br>41<br>32                    |  |
| CHASM FALLS               | 36<br>32<br>28                | MAY 20<br>MAY 11<br>APR 24 | JUN 08<br>MAY 26<br>MAY 10 | JUN 28<br>JUN 10<br>MAY 26 | AUG 24<br>SEP 05<br>SEP 22 | SEP 06<br>SEP 20<br>OCT 05 | SEP 19<br>OCT 05<br>OCT 19 | 109<br>135<br>166       | 89<br>116<br>148  | 69<br>97<br>130   | 55<br>48<br>38                    |  |
| CHAZY                     | 36<br>32<br>28                | MAY 11<br>APR 26<br>APR 09 | MAY 24<br>MAY 28<br>APR 27 | JUN 07<br>MAY 28<br>MAY 14 | SEP 02<br>SEP 10<br>SEP 24 | SEP 15<br>SEP 26<br>OCT 11 | SEP 28<br>OCT 12<br>OCT 29 | 129<br>158<br>193       | 113<br>136<br>167 | 96<br>114<br>140  | 52<br>44<br>37                    |  |
| COOPERSTOWN               | 36<br>32<br>28                | MAY 26<br>MAY 12<br>APR 29 | JUN 09<br>MAY 24<br>MAY 11 | JUN 24<br>JUN 06<br>MAY 22 | AUG 31<br>SEP 09<br>SEP 20 | SEP 12<br>SEP 22<br>OCT 06 | SEP 24<br>OCT 05<br>OCT 21 | 112<br>139<br>167       | 94<br>120<br>147  | 76<br>101<br>128  | 53<br>46<br>37                    |  |
| CORTLAND                  | 36<br>32<br>28                | MAY 08<br>APR 29<br>APR 06 | MAY 24<br>MAY 14<br>APR 24 | JUN 09<br>MAY 29<br>MAY 12 | SEP 09<br>SEP 17<br>OCT 04 | SEP 22<br>OCT 05<br>OCT 21 | OCT 04<br>OCT 22<br>NOV 07 | 143<br>171<br>207       | 120<br>143<br>179 | 98<br>115<br>151  | 51<br>42<br>33                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| NEW YORK                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| DANNEMORA                 | 36<br>32<br>28                | MAY 05<br>APR 26<br>APR 11 | MAY 21<br>MAY 12<br>APR 26 | JUN 06<br>MAY 27<br>MAY 11 | SEP 11<br>SEP 21<br>SEP 29 | SEP 23<br>OCT 03<br>OCT 15 | OCT 05<br>OCT 15<br>OCT 30 | 146<br>164<br>194       | 124<br>144<br>171 | 103<br>123<br>148 | 51<br>44<br>37                    |  |
| DANSVILLE                 | 36<br>32<br>28                | MAY 07<br>APR 28<br>APR 12 | MAY 23<br>MAY 16<br>APR 26 | JUN 08<br>JUN 13<br>MAY 09 | SEP 11<br>SEP 21<br>OCT 06 | SEP 25<br>OCT 07<br>OCT 24 | OCT 08<br>OCT 22<br>NOV 12 | 145<br>164<br>205       | 124<br>143<br>181 | 102<br>121<br>157 | 48<br>40<br>31                    |  |
| DOBBS FERRY               | 36<br>32<br>28                | APR 09<br>APR 02<br>MAR 21 | APR 21<br>APR 11<br>MAR 31 | MAY 04<br>APR 20<br>APR 11 | OCT 05<br>OCT 20<br>NOV 01 | OCT 19<br>NOV 01<br>NOV 16 | NOV 02<br>NOV 14<br>DEC 01 | 200<br>220<br>251       | 180<br>204<br>229 | 160<br>188<br>208 | 35<br>27<br>19                    |  |
| ELIZABETHTOWN             | 36<br>32<br>28                | MAY 24<br>MAY 13<br>APR 27 | JUN 09<br>MAY 28<br>MAY 15 | JUN 25<br>JUN 13<br>JUN 02 | AUG 24<br>SEP 05<br>SEP 14 | SEP 07<br>SEP 18<br>SEP 29 | SEP 21<br>OCT 02<br>OCT 14 | 109<br>132<br>161       | 89<br>112<br>136  | 69<br>92<br>112   | 57<br>51<br>42                    |  |
| ELMIRA                    | 36<br>32<br>28                | MAY 11<br>APR 26<br>APR 12 | MAY 25<br>MAY 14<br>MAY 01 | JUN 08<br>MAY 31<br>MAY 19 | SEP 08<br>SEP 18<br>SEP 28 | SEP 21<br>OCT 02<br>OCT 15 | OCT 04<br>OCT 15<br>NOV 01 | 140<br>166<br>193       | 118<br>141<br>167 | 97<br>115<br>141  | 52<br>43<br>35                    |  |
| FRANKLINVILLE             | 36<br>32<br>28                | MAY 22<br>MAY 11<br>MAY 05 | JUN 13<br>MAY 30<br>MAY 18 | JUL 04<br>JUN 18<br>MAY 31 | AUG 14<br>AUG 31<br>SEP 15 | SEP 01<br>SEP 17<br>OCT 06 | SEP 19<br>OCT 04<br>OCT 27 | 104<br>138<br>165       | 80<br>110<br>140  | 55<br>81<br>115   | 56<br>49<br>39                    |  |
| FREDONIA                  | 36<br>32<br>28                | MAY 02<br>APR 18<br>APR 07 | MAY 16<br>MAY 04<br>APR 19 | MAY 31<br>MAY 19<br>MAY 01 | SEP 21<br>OCT 04<br>OCT 22 | OCT 08<br>OCT 21<br>NOV 05 | OCT 24<br>NOV 06<br>NOV 20 | 169<br>190<br>223       | 144<br>169<br>200 | 118<br>149<br>177 | 43<br>36<br>26                    |  |
| GENEVA RESEARCH FARM      | 36<br>32<br>28                | MAY 04<br>APR 19<br>APR 05 | MAY 19<br>MAY 04<br>APR 21 | JUN 02<br>MAY 18<br>MAY 07 | SEP 15<br>SEP 26<br>OCT 09 | SEP 29<br>OCT 13<br>OCT 25 | OCT 13<br>OCT 30<br>NOV 11 | 155<br>188<br>214       | 133<br>162<br>186 | 110<br>136<br>159 | 47<br>39<br>31                    |  |
| GLENHAM                   | 36<br>32<br>28                | APR 30<br>APR 10<br>APR 01 | MAY 09<br>APR 26<br>APR 10 | MAY 19<br>MAY 11<br>APR 20 | SEP 18<br>SEP 26<br>OCT 13 | OCT 03<br>OCT 11<br>OCT 27 | OCT 18<br>OCT 26<br>NOV 10 | 163<br>188<br>217       | 145<br>168<br>199 | 128<br>148<br>181 | 43<br>35<br>28                    |  |
| GLENS FALLS FA A P        | 36<br>32<br>28                | MAY 08<br>APR 24<br>APR 07 | MAY 24<br>MAY 11<br>APR 24 | JUN 08<br>MAY 28<br>MAY 10 | SEP 06<br>SEP 19<br>SEP 25 | SEP 18<br>SEP 29<br>OCT 12 | SEP 30<br>OCT 09<br>OCT 29 | 140<br>156<br>193       | 117<br>140<br>170 | 94<br>125<br>147  | 51<br>44<br>35                    |  |
| GLOVERSVILLE              | 36<br>32<br>28                | MAY 09<br>APR 27<br>APR 09 | MAY 23<br>MAY 10<br>APR 26 | JUN 05<br>MAY 24<br>MAY 13 | SEP 07<br>SEP 17<br>SEP 27 | SEP 21<br>OCT 02<br>OCT 14 | OCT 05<br>OCT 16<br>NOV 01 | 142<br>164<br>194       | 120<br>144<br>171 | 99<br>123<br>147  | 50<br>42<br>33                    |  |
| GOUVERNEUR                | 36<br>32<br>28                | MAY 21<br>MAY 08<br>APR 23 | JUN 03<br>MAY 21<br>MAY 07 | JUN 17<br>JUN 03<br>MAY 20 | AUG 21<br>SEP 03<br>SEP 19 | SEP 08<br>SEP 19<br>OCT 05 | SEP 25<br>OCT 04<br>OCT 21 | 118<br>137<br>169       | 96<br>120<br>150  | 73<br>104<br>132  | 52<br>45<br>37                    |  |
| GRAFTON                   | 36<br>32<br>28                | MAY 10<br>APR 28<br>APR 12 | MAY 25<br>MAY 12<br>APR 27 | JUN 08<br>MAY 27<br>MAY 12 | SEP 10<br>SEP 18<br>SEP 29 | SEP 22<br>OCT 03<br>OCT 13 | OCT 04<br>OCT 18<br>OCT 28 | 137<br>165<br>193       | 120<br>143<br>169 | 103<br>122<br>144 | 50<br>43<br>35                    |  |
| HEMLOCK                   | 36<br>32<br>28                | MAY 08<br>APR 28<br>APR 11 | MAY 26<br>MAY 13<br>APR 28 | JUN 12<br>MAY 29<br>MAY 15 | SEP 07<br>SEP 20<br>OCT 03 | SEP 25<br>OCT 08<br>OCT 20 | OCT 14<br>OCT 27<br>NOV 06 | 152<br>172<br>201       | 122<br>147<br>174 | 92<br>123<br>148  | 48<br>41<br>33                    |  |
| INDIAN LAKE 2 SW          | 36<br>32<br>28                | JUN 01<br>MAY 22<br>MAY 04 | JUN 24<br>JUN 11<br>MAY 20 | JUL 17<br>JUL 01<br>JUN 04 | AUG 04<br>AUG 27<br>SEP 13 | AUG 22<br>SEP 14<br>SEP 28 | SEP 08<br>OCT 01<br>OCT 13 | 85<br>123<br>152        | 58<br>94<br>130   | 30<br>65<br>109   | 62<br>56<br>46                    |  |
| ITHACA CORNELL UNIV.      | 36<br>32<br>28                | MAY 17<br>MAY 02<br>APR 16 | MAY 31<br>MAY 15<br>MAY 01 | JUN 13<br>MAY 29<br>MAY 17 | SEP 01<br>SEP 12<br>SEP 28 | SEP 17<br>SEP 28<br>OCT 17 | OCT 02<br>OCT 14<br>NOV 05 | 130<br>158<br>196       | 108<br>135<br>168 | 87<br>112<br>141  | 50<br>42<br>33                    |  |
| LAKE PLACID CLUB          | 36<br>32<br>28                | MAY 28<br>MAY 21<br>MAY 02 | JUN 24<br>JUN 04<br>MAY 18 | JUL 21<br>JUN 19<br>JUN 03 | AUG 05<br>AUG 29<br>SEP 09 | AUG 23<br>SEP 11<br>SEP 26 | SEP 09<br>SEP 25<br>OCT 13 | 93<br>120<br>152        | 59<br>98<br>131   | 25<br>76<br>109   | 60<br>53<br>44                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY *<br>(4) |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|--------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                      |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                      |  |
| NEW YORK                  |                               |                         |        |        |                         |        |        |                         |     |     |                                      |  |
| LAWRENCEVILLE             | 36                            | MAY 18                  | JUN 02 | JUN 16 | SEP 02                  | SEP 18 | OCT 03 | 128                     | 107 | 86  | 52                                   |  |
|                           | 32                            | MAY 07                  | MAY 21 | JUN 03 | SEP 15                  | SEP 27 | OCT 09 | 143                     | 129 | 114 | 45                                   |  |
|                           | 28                            | APR 20                  | MAY 04 | MAY 19 | SEP 24                  | OCT 10 | OCT 26 | 183                     | 159 | 135 | 37                                   |  |
| LIBERTY                   | 36                            | MAY 12                  | MAY 26 | JUN 09 | SEP 05                  | SEP 17 | SEP 30 | 134                     | 114 | 93  | 52                                   |  |
|                           | 32                            | MAY 02                  | MAY 16 | MAY 30 | SEP 15                  | SEP 30 | OCT 16 | 158                     | 137 | 116 | 45                                   |  |
|                           | 28                            | APR 12                  | APR 29 | MAY 15 | SEP 28                  | OCT 16 | NOV 02 | 197                     | 169 | 141 | 35                                   |  |
| LITTLE FALLS CITY RES     | 36                            | MAY 12                  | MAY 28 | JUN 13 | SEP 01                  | SEP 16 | OCT 02 | 135                     | 111 | 87  | 52                                   |  |
|                           | 32                            | MAY 01                  | MAY 14 | MAY 28 | SEP 15                  | SEP 30 | OCT 15 | 159                     | 138 | 117 | 45                                   |  |
|                           | 28                            | APR 15                  | MAY 01 | MAY 17 | SEP 23                  | OCT 10 | OCT 27 | 187                     | 161 | 135 | 37                                   |  |
| LITTLE VALLEY             | 36                            | MAY 20                  | JUN 06 | JUN 22 | AUG 21                  | SEP 10 | SEP 30 | 122                     | 96  | 70  | 54                                   |  |
|                           | 32                            | MAY 11                  | MAY 25 | JUN 08 | SEP 09                  | SEP 27 | OCT 16 | 147                     | 125 | 103 | 47                                   |  |
|                           | 28                            | APR 22                  | MAY 07 | MAY 23 | SEP 25                  | OCT 14 | NOV 01 | 183                     | 158 | 134 | 37                                   |  |
| LOCKPORT 2 NE             | 36                            | MAY 06                  | MAY 20 | JUN 04 | SEP 15                  | SEP 29 | OCT 12 | 152                     | 131 | 109 | 46                                   |  |
|                           | 32                            | APR 25                  | MAY 08 | MAY 21 | SEP 25                  | OCT 11 | OCT 27 | 175                     | 155 | 135 | 39                                   |  |
|                           | 28                            | APR 10                  | APR 25 | MAY 10 | OCT 09                  | OCT 26 | NOV 13 | 208                     | 184 | 160 | 30                                   |  |
| LOWVILLE                  | 36                            | MAY 19                  | JUN 03 | JUN 18 | AUG 28                  | SEP 12 | SEP 28 | 124                     | 101 | 77  | 53                                   |  |
|                           | 32                            | MAY 03                  | MAY 17 | MAY 31 | SEP 11                  | SEP 23 | OCT 06 | 148                     | 129 | 109 | 45                                   |  |
|                           | 28                            | APR 19                  | MAY 03 | MAY 18 | SEP 18                  | OCT 04 | OCT 19 | 174                     | 153 | 131 | 37                                   |  |
| MILLBROOK                 | 36                            | MAY 12                  | MAY 28 | JUN 13 | SEP 07                  | SEP 19 | OCT 01 | 132                     | 113 | 94  | 49                                   |  |
|                           | 32                            | APR 27                  | MAY 14 | MAY 30 | SEP 14                  | SEP 30 | OCT 16 | 163                     | 139 | 115 | 42                                   |  |
|                           | 28                            | APR 14                  | APR 29 | MAY 13 | SEP 26                  | OCT 13 | OCT 30 | 189                     | 167 | 144 | 33                                   |  |
| MINEOLA                   | 36                            | APR 05                  | APR 18 | MAY 01 | OCT 15                  | OCT 29 | NOV 11 | 212                     | 194 | 176 | 32                                   |  |
|                           | 32                            | MAR 25                  | APR 06 | APR 17 | OCT 26                  | NOV 10 | NOV 25 | 238                     | 218 | 197 | 23                                   |  |
|                           | 28                            | MAR 11                  | MAR 27 | APR 11 | NOV 07                  | NOV 24 | DEC 10 | 266                     | 241 | 217 | 16                                   |  |
| MOHONK LAKE               | 36                            | APR 24                  | MAY 06 | MAY 19 | SEP 25                  | OCT 10 | OCT 25 | 179                     | 156 | 133 | 43                                   |  |
|                           | 32                            | APR 09                  | APR 23 | MAY 08 | OCT 07                  | OCT 22 | NOV 06 | 201                     | 181 | 161 | 37                                   |  |
|                           | 28                            | MAR 30                  | APR 15 | APR 30 | OCT 18                  | NOV 02 | NOV 17 | 223                     | 200 | 178 | 29                                   |  |
| MOUNT MORRIS 2 W          | 36                            | MAY 06                  | MAY 19 | JUN 01 | SEP 13                  | SEP 27 | OCT 11 | 152                     | 130 | 109 | 48                                   |  |
|                           | 32                            | APR 22                  | MAY 06 | MAY 20 | SEP 22                  | OCT 08 | OCT 24 | 176                     | 154 | 133 | 41                                   |  |
|                           | 28                            | APR 10                  | APR 25 | MAY 10 | OCT 13                  | OCT 27 | NOV 10 | 206                     | 185 | 163 | 32                                   |  |
| NEW YORK CNTRL PK HSO     | 36                            | APR 02                  | APR 14 | APR 26 | OCT 19                  | OCT 30 | NOV 10 | 213                     | 199 | 185 | 30                                   |  |
|                           | 32                            | MAR 19                  | APR 01 | APR 13 | OCT 27                  | NOV 11 | NOV 26 | 244                     | 223 | 203 | 21                                   |  |
|                           | 28                            | MAR 09                  | MAR 24 | APR 08 | NOV 15                  | NOV 27 | DEC 10 | 269                     | 247 | 226 | 15                                   |  |
| NY WESTERLEIGH STAT IS    | 36                            | APR 10                  | APR 26 | MAY 12 | OCT 02                  | OCT 17 | NOV 01 | 197                     | 173 | 150 | 36                                   |  |
|                           | 32                            | APR 02                  | APR 11 | APR 20 | OCT 12                  | OCT 29 | NOV 15 | 219                     | 201 | 183 | 27                                   |  |
|                           | 28                            | MAR 16                  | MAR 30 | APR 13 | OCT 30                  | NOV 15 | NOV 30 | 251                     | 229 | 206 | 19                                   |  |
| NORWICH 1 NE              | 36                            | MAY 25                  | JUN 10 | JUN 26 | AUG 24                  | SEP 09 | SEP 24 | 116                     | 90  | 65  | 56                                   |  |
|                           | 32                            | MAY 09                  | MAY 23 | JUN 06 | SEP 09                  | SEP 23 | OCT 07 | 144                     | 123 | 101 | 48                                   |  |
|                           | 28                            | APR 25                  | MAY 08 | MAY 21 | SEP 20                  | OCT 07 | OCT 24 | 174                     | 151 | 128 | 39                                   |  |
| OGDENSBURG 3 NE           | 36                            | MAY 11                  | MAY 24 | JUN 06 | SEP 08                  | SEP 21 | OCT 05 | 137                     | 120 | 102 | 51                                   |  |
|                           | 32                            | APR 23                  | MAY 10 | MAY 27 | SEP 19                  | OCT 03 | OCT 16 | 168                     | 145 | 123 | 43                                   |  |
|                           | 28                            | APR 09                  | APR 24 | APR 10 | SEP 24                  | OCT 13 | NOV 01 | 197                     | 171 | 146 | 36                                   |  |
| OSWEGO EAST               | 36                            | APR 23                  | MAY 11 | MAY 28 | SEP 23                  | OCT 09 | OCT 25 | 176                     | 151 | 126 | 43                                   |  |
|                           | 32                            | APR 10                  | APR 26 | MAY 11 | OCT 05                  | OCT 20 | NOV 05 | 201                     | 177 | 153 | 35                                   |  |
|                           | 28                            | MAR 29                  | APR 12 | APR 26 | OCT 25                  | NOV 08 | NOV 23 | 232                     | 209 | 186 | 26                                   |  |
| PATCHOGUE 2 N             | 36                            | APR 24                  | MAY 10 | MAY 26 | SEP 21                  | OCT 02 | OCT 13 | 163                     | 144 | 126 | 41                                   |  |
|                           | 32                            | APR 09                  | APR 27 | MAY 15 | OCT 07                  | OCT 21 | NOV 04 | 201                     | 176 | 151 | 33                                   |  |
|                           | 28                            | MAR 27                  | APR 11 | APR 26 | OCT 16                  | OCT 31 | NOV 15 | 224                     | 202 | 180 | 24                                   |  |
| PENN YAN 2 SW             | 36                            | APR 30                  | MAY 14 | MAY 28 | SEP 19                  | OCT 04 | OCT 18 | 162                     | 142 | 122 | 45                                   |  |
|                           | 32                            | APR 18                  | MAY 05 | MAY 22 | SEP 29                  | OCT 14 | OCT 28 | 187                     | 161 | 135 | 38                                   |  |
|                           | 28                            | APR 05                  | APR 21 | MAY 07 | OCT 12                  | OCT 28 | NOV 14 | 215                     | 190 | 165 | 29                                   |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| NEW YORK                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| PERU 2 WSW                | 36<br>32<br>28                | MAY 11<br>MAY 02<br>APR 17 | MAY 27<br>MAY 15<br>APR 29 | JUN 11<br>MAY 27<br>MAY 12 | SEP 05<br>SEP 17<br>SEP 25 | SEP 18<br>SEP 27<br>OCT 10 | OCT 02<br>OCT 08<br>OCT 25 | 135<br>150<br>184       | 114<br>135<br>163 | 93<br>121<br>141  | 52<br>46<br>37                    |  |
| PORT JERVIS               | 36<br>32<br>28                | MAY 05<br>APR 26<br>APR 07 | MAY 19<br>MAY 09<br>APR 22 | JUN 02<br>MAY 21<br>MAY 06 | SEP 11<br>SEP 22<br>OCT 03 | SEP 24<br>OCT 07<br>OCT 18 | OCT 07<br>OCT 22<br>NOV 02 | 147<br>171<br>202       | 127<br>151<br>179 | 107<br>131<br>155 | 47<br>40<br>31                    |  |
| POUGHKEEPSIE FAA AP       | 36<br>32<br>28                | MAY 06<br>APR 23<br>APR 01 | MAY 18<br>MAY 05<br>APR 18 | MAY 31<br>MAY 17<br>MAY 04 | SEP 11<br>SEP 20<br>SEP 30 | SEP 24<br>OCT 06<br>OCT 16 | OCT 07<br>OCT 22<br>NOV 01 | 147<br>176<br>205       | 128<br>153<br>181 | 109<br>131<br>157 | 47<br>40<br>31                    |  |
| RIVERHEAD RESEARCH        | 36<br>32<br>28                | APR 16<br>APR 05<br>MAR 18 | APR 27<br>APR 15<br>MAR 31 | MAY 08<br>MAY 26<br>APR 14 | OCT 07<br>OCT 20<br>OCT 29 | OCT 19<br>NOV 01<br>NOV 15 | NOV 01<br>NOV 12<br>DEC 01 | 192<br>214<br>251       | 175<br>199<br>227 | 158<br>184<br>204 | 37<br>28<br>18                    |  |
| ROCHESTER WSO             | 36<br>32<br>28                | APR 27<br>APR 17<br>APR 08 | MAY 13<br>MAY 03<br>APR 20 | MAY 30<br>MAY 18<br>MAY 03 | SEP 15<br>SEP 29<br>OCT 12 | OCT 02<br>OCT 15<br>OCT 29 | OCT 18<br>OCT 31<br>NOV 15 | 166<br>188<br>212       | 140<br>164<br>191 | 115<br>140<br>171 | 45<br>37<br>29                    |  |
| SALEM                     | 36<br>32<br>28                | MAY 22<br>MAY 09<br>APR 18 | JUN 06<br>MAY 23<br>MAY 07 | JUN 22<br>JUN 06<br>MAY 27 | AUG 21<br>SEP 06<br>SEP 16 | SEP 02<br>SEP 19<br>OCT 02 | SEP 15<br>OCT 02<br>OCT 18 | 109<br>136<br>171       | 87<br>118<br>147  | 66<br>100<br>123  | 56<br>49<br>40                    |  |
| SCARSDALE                 | 36<br>32<br>28                | APR 26<br>APR 10<br>MAR 30 | MAY 09<br>APR 24<br>APR 09 | MAY 22<br>MAY 09<br>APR 19 | SEP 20<br>OCT 01<br>OCT 11 | OCT 05<br>OCT 16<br>OCT 26 | OCT 19<br>OCT 30<br>NOV 11 | 167<br>196<br>218       | 148<br>174<br>199 | 129<br>152<br>181 | 41<br>33<br>24                    |  |
| SETAUKEET                 | 36<br>32<br>28                | APR 13<br>MAR 30<br>MAR 19 | APR 28<br>APR 17<br>MAR 31 | MAY 14<br>MAY 05<br>APR 12 | OCT 10<br>OCT 19<br>NOV 05 | OCT 26<br>NOV 03<br>NOV 18 | NOV 11<br>NOV 18<br>DEC 01 | 206<br>225<br>252       | 180<br>199<br>231 | 154<br>174<br>211 | 35<br>27<br>18                    |  |
| SODUS CENTER              | 36<br>32<br>28                | MAY 04<br>APR 16<br>MAR 31 | MAY 20<br>MAY 05<br>APR 22 | JUN 05<br>MAY 24<br>MAY 14 | SEP 13<br>SEP 24<br>OCT 08 | SEP 26<br>OCT 10<br>OCT 25 | OCT 08<br>OCT 26<br>NOV 11 | 152<br>181<br>216       | 128<br>157<br>185 | 104<br>133<br>154 | 46<br>37<br>29                    |  |
| SPENCER 3 W               | 36<br>32<br>28                | MAY 23<br>MAY 09<br>APR 25 | JUN 08<br>MAY 26<br>MAY 09 | JUN 24<br>JUN 11<br>MAY 23 | AUG 15<br>SEP 10<br>SEP 21 | SEP 01<br>SEP 21<br>OCT 06 | SEP 19<br>OCT 03<br>OCT 21 | 106<br>140<br>170       | 85<br>118<br>149  | 63<br>96<br>128   | 55<br>48<br>38                    |  |
| STILLWATER RESERVOIR      | 36<br>32<br>28                | MAY 23<br>MAY 09<br>APR 26 | JUN 04<br>MAY 24<br>MAY 10 | JUN 17<br>JUN 08<br>MAY 24 | AUG 30<br>SEP 07<br>SEP 19 | SEP 13<br>SEP 22<br>OCT 03 | SEP 27<br>OCT 08<br>OCT 17 | 119<br>143<br>167       | 100<br>120<br>145 | 81<br>98<br>124   | 57<br>52<br>43                    |  |
| SYRACUSE WSO              | 36<br>32<br>28                | APR 30<br>APR 13<br>APR 02 | MAY 14<br>APR 28<br>APR 17 | MAY 28<br>MAY 14<br>MAY 02 | SEP 18<br>OCT 03<br>OCT 10 | OCT 01<br>OCT 16<br>OCT 27 | OCT 14<br>OCT 29<br>NOV 14 | 161<br>194<br>215       | 140<br>170<br>193 | 118<br>146<br>171 | 45<br>37<br>29                    |  |
| TUPPER LAKE SUNMOUNT      | 36<br>32<br>28                | MAY 29<br>MAY 15<br>APR 30 | JUN 12<br>MAY 31<br>MAY 14 | JUN 25<br>JUN 16<br>MAY 29 | AUG 10<br>AUG 30<br>SEP 14 | AUG 29<br>SEP 14<br>SEP 28 | SEP 18<br>SEP 29<br>OCT 13 | 104<br>129<br>157       | 78<br>105<br>136  | 52<br>82<br>116   | 58<br>52<br>43                    |  |
| UTICA FAA AP              | 36<br>32<br>28                | MAY 02<br>APR 21<br>APR 03 | MAY 17<br>MAY 06<br>APR 21 | JUN 01<br>MAY 20<br>MAY 09 | SEP 11<br>SEP 27<br>OCT 04 | SEP 27<br>OCT 11<br>OCT 22 | OCT 13<br>OCT 26<br>NOV 09 | 156<br>180<br>212       | 132<br>158<br>183 | 109<br>136<br>154 | 48<br>40<br>32                    |  |
| WANAKENA RANGER SCHOOL    | 36<br>32<br>28                | MAY 26<br>MAY 20<br>APR 30 | JUN 18<br>JUN 03<br>MAY 14 | JUL 11<br>JUN 18<br>MAY 28 | AUG 08<br>SEP 01<br>SEP 17 | AUG 27<br>SEP 14<br>SEP 30 | SEP 15<br>SEP 27<br>OCT 13 | 103<br>118<br>157       | 70<br>102<br>138  | 37<br>85<br>119   | 58<br>51<br>42                    |  |
| WATERTOWN                 | 36<br>32<br>28                | MAY 07<br>APR 24<br>APR 08 | MAY 21<br>MAY 08<br>APR 22 | JUN 04<br>MAY 22<br>MAY 07 | SEP 13<br>SEP 21<br>OCT 04 | SEP 25<br>OCT 06<br>OCT 18 | OCT 08<br>OCT 21<br>OCT 31 | 147<br>170<br>197       | 126<br>150<br>178 | 106<br>130<br>159 | 48<br>40<br>33                    |  |
| WESTFIELD 3 SW            | 36<br>32<br>28                | APR 29<br>APR 16<br>APR 05 | MAY 13<br>APR 28<br>APR 17 | MAY 26<br>MAY 11<br>APR 30 | OCT 01<br>OCT 13<br>OCT 27 | OCT 16<br>OCT 29<br>NOV 09 | OCT 31<br>NOV 14<br>NOV 23 | 175<br>201<br>221       | 155<br>183<br>205 | 135<br>164<br>190 | 42<br>35<br>26                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| NEW YORK                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| WEST POINT                | 36                            | APR 13                  | MAY 01 | MAY 18 | SEP 24                  | OCT 11 | OCT 29 | 190                     | 163 | 135 | 40                                |  |
|                           | 32                            | APR 19                  | MAY 03 | MAY 03 | OCT 08                  | OCT 23 | NOV 07 | 207                     | 186 | 166 | 33                                |  |
|                           | 28                            | MAR 23                  | APR 08 | APR 24 | OCT 22                  | NOV 06 | NOV 22 | 237                     | 212 | 186 | 24                                |  |
| WHITEHALL                 | 36                            | MAY 03                  | MAY 18 | JUN 02 | SEP 15                  | SEP 26 | OCT 07 | 149                     | 130 | 111 | 48                                |  |
|                           | 32                            | APR 18                  | MAY 05 | MAY 22 | SEP 22                  | OCT 04 | OCT 16 | 171                     | 151 | 132 | 41                                |  |
|                           | 28                            | APR 05                  | APR 20 | MAY 05 | OCT 02                  | OCT 17 | NOV 01 | 197                     | 179 | 162 | 33                                |  |
| NORTH CAROLINA            |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| ALBEMARLE 4 N             | 36                            | APR 08                  | APR 26 | MAY 14 | OCT 05                  | OCT 17 | OCT 28 | 196                     | 173 | 150 | 29                                |  |
|                           | 32                            | MAR 29                  | APR 09 | APR 20 | OCT 10                  | OCT 25 | NOV 09 | 214                     | 198 | 182 | 22                                |  |
|                           | 28                            | MAR 14                  | MAR 27 | APR 10 | OCT 23                  | NOV 08 | NOV 23 | 247                     | 225 | 203 | 15                                |  |
| ANDREWS 2 E               | 36                            | APR 28                  | MAY 12 | MAY 26 | SEP 21                  | OCT 04 | OCT 17 | 163                     | 144 | 126 | 41                                |  |
|                           | 32                            | APR 19                  | MAY 04 | MAY 19 | SEP 27                  | OCT 10 | OCT 22 | 180                     | 158 | 136 | 34                                |  |
|                           | 28                            | MAR 30                  | APR 14 | APR 28 | OCT 06                  | OCT 20 | NOV 03 | 208                     | 188 | 169 | 27                                |  |
| ASHEBORO 2 W              | 36                            | APR 05                  | APR 20 | MAY 05 | OCT 11                  | OCT 21 | NOV 01 | 201                     | 183 | 165 | 26                                |  |
|                           | 32                            | MAR 21                  | APR 03 | APR 16 | OCT 16                  | OCT 31 | NOV 15 | 226                     | 210 | 195 | 19                                |  |
|                           | 28                            | MAR 05                  | MAR 23 | APR 11 | OCT 27                  | NOV 11 | NOV 26 | 256                     | 232 | 207 | 12                                |  |
| ASHEVILLE                 | 36                            | APR 11                  | APR 27 | MAY 12 | OCT 01                  | OCT 14 | OCT 27 | 190                     | 170 | 150 | 31                                |  |
|                           | 32                            | MAR 28                  | APR 10 | APR 24 | OCT 11                  | OCT 24 | NOV 06 | 213                     | 196 | 179 | 23                                |  |
|                           | 28                            | MAR 13                  | MAR 24 | APR 04 | OCT 21                  | NOV 05 | NOV 21 | 245                     | 225 | 206 | 15                                |  |
| BANNER ELK                | 36                            | MAY 03                  | MAY 28 | JUN 21 | SEP 04                  | SEP 20 | OCT 07 | 144                     | 115 | 86  | 44                                |  |
|                           | 32                            | APR 21                  | MAY 12 | JUN 02 | SEP 18                  | OCT 02 | OCT 17 | 166                     | 142 | 119 | 36                                |  |
|                           | 28                            | APR 15                  | APR 03 | MAY 20 | OCT 02                  | OCT 12 | OCT 21 | 180                     | 161 | 143 | 28                                |  |
| BENT CREEK                | 36                            | MAY 02                  | MAY 17 | MAY 31 | SEP 19                  | OCT 02 | OCT 16 | 158                     | 138 | 118 | 38                                |  |
|                           | 32                            | APR 20                  | MAY 05 | MAY 20 | SEP 24                  | OCT 07 | OCT 21 | 172                     | 154 | 137 | 31                                |  |
|                           | 28                            | APR 04                  | APR 19 | MAY 05 | OCT 06                  | OCT 19 | NOV 01 | 202                     | 182 | 162 | 23                                |  |
| BLACK MOUNTAIN            | 36                            | APR 21                  | MAY 06 | MAY 22 | SEP 25                  | OCT 06 | OCT 18 | 170                     | 152 | 134 | 35                                |  |
|                           | 32                            | APR 10                  | APR 27 | MAY 13 | OCT 04                  | OCT 17 | OCT 29 | 194                     | 173 | 151 | 27                                |  |
|                           | 28                            | MAR 20                  | APR 06 | APR 23 | OCT 10                  | OCT 24 | NOV 08 | 219                     | 201 | 182 | 19                                |  |
| BREVARD                   | 36                            | APR 27                  | MAY 14 | MAY 31 | SEP 23                  | OCT 04 | OCT 15 | 162                     | 143 | 124 | 37                                |  |
|                           | 32                            | APR 17                  | MAY 02 | MAY 17 | SEP 27                  | OCT 08 | OCT 17 | 175                     | 158 | 141 | 30                                |  |
|                           | 28                            | APR 02                  | APR 20 | MAY 08 | OCT 10                  | OCT 22 | NOV 03 | 205                     | 184 | 164 | 23                                |  |
| BURLINGTON FILTER PL      | 36                            | APR 01                  | APR 14 | APR 27 | OCT 10                  | OCT 22 | NOV 02 | 205                     | 190 | 174 | 28                                |  |
|                           | 32                            | MAR 18                  | MAR 31 | APR 12 | OCT 18                  | NOV 01 | NOV 16 | 236                     | 215 | 193 | 21                                |  |
|                           | 28                            | MAR 01                  | MAR 18 | APR 05 | OCT 28                  | NOV 12 | NOV 26 | 265                     | 237 | 210 | 14                                |  |
| CANTON 1 SW               | 36                            | APR 28                  | MAY 14 | MAY 29 | SEP 22                  | OCT 03 | OCT 13 | 158                     | 141 | 125 | 41                                |  |
|                           | 32                            | APR 20                  | MAY 04 | MAY 18 | SEP 29                  | OCT 10 | OCT 21 | 175                     | 158 | 140 | 34                                |  |
|                           | 28                            | APR 03                  | APR 17 | APR 30 | OCT 04                  | OCT 17 | OCT 29 | 201                     | 182 | 163 | 25                                |  |
| CELO 2 S                  | 36                            | MAY 11                  | JUN 01 | JUN 22 | SEP 08                  | SEP 23 | OCT 08 | 140                     | 113 | 87  | 46                                |  |
|                           | 32                            | MAY 02                  | MAY 18 | JUN 04 | SEP 16                  | SEP 30 | OCT 13 | 154                     | 134 | 113 | 39                                |  |
|                           | 28                            | APR 20                  | MAY 05 | MAY 20 | SEP 29                  | OCT 09 | OCT 20 | 175                     | 157 | 139 | 31                                |  |
| CHAPEL HILL 2 W           | 36                            | APR 13                  | APR 29 | MAY 15 | OCT 03                  | OCT 13 | OCT 23 | 184                     | 167 | 149 | 32                                |  |
|                           | 32                            | MAR 31                  | APR 15 | MAY 01 | OCT 10                  | OCT 23 | NOV 04 | 207                     | 189 | 172 | 25                                |  |
|                           | 28                            | MAR 18                  | APR 01 | APR 16 | OCT 18                  | NOV 02 | NOV 17 | 234                     | 214 | 193 | 17                                |  |
| CONCORD                   | 36                            | APR 02                  | APR 17 | MAY 02 | OCT 11                  | OCT 23 | NOV 04 | 206                     | 189 | 171 | 29                                |  |
|                           | 32                            | MAR 20                  | APR 02 | APR 16 | OCT 17                  | NOV 02 | NOV 18 | 236                     | 213 | 190 | 22                                |  |
|                           | 28                            | MAR 02                  | MAR 18 | APR 03 | OCT 26                  | NOV 10 | NOV 25 | 258                     | 236 | 214 | 14                                |  |
| COWEETA EXP STATION       | 36                            | MAY 02                  | MAY 16 | MAY 30 | SEP 18                  | OCT 01 | OCT 14 | 156                     | 138 | 119 | 39                                |  |
|                           | 32                            | APR 20                  | MAY 07 | MAY 24 | SEP 28                  | OCT 07 | OCT 17 | 171                     | 153 | 134 | 32                                |  |
|                           | 28                            | APR 06                  | APR 21 | MAY 05 | OCT 05                  | OCT 18 | OCT 30 | 199                     | 179 | 159 | 24                                |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE / FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|-------------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                     |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                     |  |
| NORTH CAROLINA            |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                     |  |
| CULLOWHEE                 | 36<br>32<br>28                | MAY 01<br>APR 18<br>APR 05 | MAY 14<br>MAY 04<br>APR 21 | MAY 27<br>MAY 20<br>MAY 06 | SEP 20<br>SEP 29<br>OCT 07 | OCT 03<br>OCT 10<br>OCT 21 | OCT 17<br>OCT 22<br>NOV 04 | 159<br>176<br>201          | 141<br>159<br>183 | 124<br>141<br>164 | 37<br>30<br>22                      |  |
| DURHAM                    | 36<br>32<br>28                | APR 14<br>MAR 28<br>MAR 14 | APR 28<br>APR 13<br>MAR 29 | MAY 12<br>APR 29<br>APR 13 | OCT 03<br>OCT 11<br>OCT 17 | OCT 15<br>OCT 24<br>NOV 01 | OCT 27<br>NOV 05<br>NOV 16 | 186<br>210<br>239          | 170<br>193<br>217 | 153<br>176<br>194 | 32<br>24<br>17                      |  |
| EDENTON                   | 36<br>32<br>28                | MAR 27<br>MAR 10<br>FEB 27 | APR 09<br>MAR 24<br>MAR 13 | APR 23<br>APR 07<br>MAR 27 | OCT 13<br>OCT 28<br>NOV 07 | OCT 29<br>NOV 10<br>NOV 25 | NOV 13<br>NOV 24<br>DEC 14 | 222<br>251<br>282          | 202<br>231<br>257 | 181<br>211<br>231 | 22<br>15<br>9                       |  |
| ELIZABETH CITY            | 36<br>32<br>28                | APR 02<br>MAR 23<br>MAR 03 | APR 17<br>APR 06<br>MAR 20 | MAY 02<br>APR 20<br>APR 06 | OCT 11<br>OCT 21<br>OCT 27 | OCT 23<br>NOV 04<br>NOV 14 | NOV 05<br>NOV 17<br>DEC 02 | 209<br>227<br>264          | 189<br>211<br>239 | 169<br>194<br>213 | 25<br>18<br>12                      |  |
| ELIZABETH CITY FAA AP     | 36<br>32<br>28                | MAR 30<br>MAR 17<br>FEB 24 | APR 11<br>MAR 31<br>MAR 12 | APR 22<br>APR 14<br>MAR 28 | OCT 17<br>OCT 23<br>OCT 31 | OCT 30<br>NOV 07<br>NOV 19 | NOV 11<br>NOV 23<br>DEC 08 | 215<br>242<br>278          | 201<br>221<br>251 | 187<br>199<br>225 | 23<br>16<br>9                       |  |
| FAYETTEVILLE              | 36<br>32<br>28                | APR 03<br>MAR 18<br>MAR 07 | APR 15<br>APR 02<br>MAR 20 | APR 27<br>APR 17<br>APR 01 | OCT 10<br>OCT 20<br>OCT 28 | OCT 22<br>OCT 31<br>NOV 12 | NOV 02<br>NOV 12<br>NOV 28 | 203<br>234<br>258          | 189<br>212<br>237 | 175<br>190<br>215 | 28<br>21<br>14                      |  |
| FLETCHER 2 NE             | 36<br>32<br>28                | APR 30<br>APR 19<br>APR 04 | MAY 16<br>MAY 07<br>APR 19 | MAY 31<br>MAY 24<br>MAY 04 | SEP 16<br>SEP 25<br>OCT 03 | OCT 01<br>OCT 07<br>OCT 16 | OCT 15<br>OCT 19<br>OCT 30 | 160<br>175<br>201          | 137<br>153<br>179 | 114<br>130<br>158 | 44<br>36<br>28                      |  |
| FRANKLIN 1 SSW            | 36<br>32<br>28                | MAY 01<br>APR 18<br>APR 06 | MAY 15<br>MAY 04<br>APR 20 | MAY 28<br>MAY 20<br>MAY 04 | SEP 24<br>OCT 01<br>OCT 07 | OCT 05<br>OCT 12<br>OCT 21 | OCT 16<br>OCT 22<br>NOV 03 | 158<br>177<br>203          | 142<br>160<br>183 | 127<br>142<br>162 | 37<br>30<br>23                      |  |
| GASTONIA                  | 36<br>32<br>28                | APR 04<br>MAR 18<br>FEB 28 | APR 19<br>APR 06<br>MAR 18 | MAY 05<br>APR 25<br>APR 05 | OCT 08<br>OCT 14<br>OCT 25 | OCT 22<br>NOV 01<br>NOV 10 | NOV 04<br>NOV 19<br>NOV 26 | 208<br>236<br>263          | 185<br>208<br>236 | 162<br>180<br>210 | 26<br>19<br>12                      |  |
| GOLDSBORO 1 SSW           | 36<br>32<br>28                | MAR 26<br>MAR 13<br>FEB 23 | APR 11<br>MAR 28<br>MAR 12 | APR 27<br>APR 11<br>MAR 29 | OCT 10<br>OCT 18<br>OCT 26 | OCT 22<br>OCT 30<br>NOV 13 | NOV 04<br>NOV 11<br>DEC 01 | 214<br>235<br>273          | 194<br>216<br>245 | 173<br>197<br>218 | 26<br>19<br>12                      |  |
| GREENSBORO WSO            | 36<br>32<br>28                | APR 05<br>MAR 31<br>MAR 10 | APR 23<br>APR 11<br>MAR 25 | MAY 12<br>APR 22<br>APR 09 | OCT 05<br>OCT 14<br>OCT 24 | OCT 17<br>OCT 27<br>NOV 08 | OCT 30<br>NOV 10<br>NOV 23 | 198<br>212<br>249          | 176<br>198<br>227 | 154<br>185<br>206 | 31<br>24<br>16                      |  |
| HAMLET                    | 36<br>32<br>28                | APR 03<br>MAR 26<br>MAR 12 | APR 18<br>APR 09<br>MAR 25 | MAY 03<br>APR 22<br>APR 07 | OCT 06<br>OCT 14<br>OCT 23 | OCT 19<br>OCT 24<br>NOV 06 | OCT 31<br>NOV 04<br>NOV 20 | 204<br>215<br>248          | 183<br>197<br>226 | 161<br>180<br>204 | 28<br>22<br>15                      |  |
| HATTERAS                  | 36<br>32<br>28                | MAR 07<br>FEB 06<br>-      | MAR 23<br>MAR 02<br>FEB 12 | APR 09<br>MAR 27<br>MAR 07 | NOV 12<br>NOV 22<br>DEC 03 | NOV 26<br>DEC 11<br>JAN 04 | DEC 10<br>DEC 30<br>-      | 269<br>319<br>>365         | 247<br>283<br>321 | 226<br>248<br>286 | 10<br>6<br>2                        |  |
| HENDERSONVILLE 1 NE       | 36<br>32<br>28                | APR 21<br>APR 10<br>MAR 24 | MAY 08<br>APR 26<br>APR 10 | MAY 26<br>MAY 13<br>APR 28 | SEP 24<br>SEP 30<br>OCT 07 | OCT 05<br>OCT 12<br>OCT 23 | OCT 15<br>OCT 24<br>NOV 08 | 169<br>188<br>218          | 149<br>168<br>195 | 128<br>148<br>171 | 37<br>30<br>21                      |  |
| HICKORY FAA AP            | 36<br>32<br>28                | APR 06<br>MAR 23<br>MAR 01 | APR 21<br>APR 08<br>MAR 18 | MAY 07<br>APR 23<br>APR 05 | OCT 04<br>OCT 15<br>OCT 23 | OCT 18<br>OCT 30<br>NOV 08 | OCT 31<br>NOV 13<br>NOV 25 | 198<br>226<br>260          | 179<br>204<br>234 | 159<br>182<br>208 | 29<br>22<br>14                      |  |
| HIGHLANDS 2 S             | 36<br>32<br>28                | APR 18<br>APR 08<br>MAR 26 | MAY 04<br>APR 25<br>APR 09 | MAY 20<br>MAY 12<br>APR 23 | SEP 30<br>OCT 05<br>OCT 13 | OCT 10<br>OCT 22<br>OCT 31 | OCT 20<br>NOV 07<br>NOV 17 | 176<br>203<br>228          | 158<br>179<br>204 | 141<br>155<br>180 | 33<br>25<br>18                      |  |
| HIGH POINT                | 36<br>32<br>28                | MAR 31<br>MAR 21<br>FEB 27 | APR 16<br>APR 03<br>MAR 17 | MAY 01<br>APR 15<br>APR 04 | OCT 07<br>OCT 14<br>OCT 26 | OCT 18<br>OCT 30<br>NOV 11 | OCT 30<br>NOV 15<br>NOV 27 | 202<br>232<br>261          | 185<br>210<br>238 | 168<br>188<br>215 | 27<br>19<br>12                      |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| NORTH CAROLINA            |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| HOT SPRINGS 2             | 36<br>32<br>28                | APR 21<br>APR 04<br>MAR 16 | MAY 05<br>APR 20<br>APR 03 | MAY 19<br>MAY 06<br>APR 21 | OCT 01<br>OCT 09<br>OCT 13 | OCT 12<br>OCT 21<br>OCT 31 | OCT 22<br>NOV 02<br>NOV 18 | 176<br>203<br>236       | 159<br>183<br>210 | 141<br>163<br>184 | 31<br>24<br>16                    |  |
| JACKSON                   | 36<br>32<br>28                | APR 11<br>MAR 26<br>MAR 13 | APR 24<br>APR 10<br>MAR 27 | MAY 08<br>APR 25<br>APR 11 | OCT 05<br>OCT 16<br>OCT 25 | OCT 17<br>OCT 27<br>NOV 08 | OCT 29<br>NOV 06<br>NOV 21 | 192<br>215<br>247       | 175<br>199<br>225 | 158<br>182<br>202 | 28<br>21<br>14                    |  |
| KINSTON 5 SE              | 36<br>32<br>28                | APR 01<br>MAR 12<br>FEB 23 | APR 16<br>MAR 30<br>MAR 15 | MAY 02<br>APR 16<br>APR 04 | OCT 09<br>OCT 13<br>OCT 25 | OCT 22<br>OCT 29<br>NOV 12 | NOV 04<br>NOV 15<br>NOV 30 | 211<br>240<br>270       | 188<br>213<br>241 | 165<br>186<br>212 | 26<br>19<br>12                    |  |
| LAURINBURG                | 36<br>32<br>28                | APR 01<br>MAR 17<br>MAR 02 | APR 16<br>MAR 30<br>MAR 17 | MAY 02<br>APR 13<br>APR 01 | OCT 13<br>OCT 18<br>OCT 27 | OCT 24<br>NOV 01<br>NOV 12 | NOV 04<br>NOV 16<br>NOV 28 | 209<br>237<br>262       | 190<br>216<br>239 | 171<br>194<br>217 | 23<br>17<br>10                    |  |
| LENOIR                    | 36<br>32<br>28                | APR 13<br>APR 01<br>MAR 11 | APR 30<br>APR 17<br>MAR 27 | MAY 18<br>MAY 02<br>APR 12 | OCT 02<br>OCT 07<br>OCT 19 | OCT 10<br>OCT 21<br>NOV 03 | OCT 19<br>NOV 04<br>NOV 18 | 182<br>206<br>242       | 162<br>187<br>220 | 142<br>167<br>199 | 32<br>25<br>16                    |  |
| LEXINGTON                 | 36<br>32<br>28                | MAR 29<br>MAR 15<br>FEB 22 | APR 14<br>MAR 30<br>MAR 14 | APR 30<br>APR 14<br>APR 02 | OCT 09<br>OCT 15<br>OCT 26 | OCT 22<br>OCT 30<br>NOV 10 | NOV 04<br>NOV 15<br>NOV 26 | 212<br>237<br>269       | 190<br>213<br>241 | 168<br>189<br>213 | 26<br>19<br>11                    |  |
| LOUISBURG                 | 36<br>32<br>28                | APR 19<br>APR 06<br>MAR 25 | MAY 04<br>APR 23<br>APR 08 | MAY 20<br>MAY 10<br>APR 22 | SEP 30<br>OCT 05<br>OCT 12 | OCT 10<br>OCT 15<br>OCT 25 | OCT 21<br>OCT 26<br>NOV 07 | 178<br>197<br>215       | 158<br>175<br>199 | 139<br>152<br>183 | 38<br>31<br>23                    |  |
| LUMBERTON 6 NW            | 36<br>32<br>28                | MAR 30<br>MAR 17<br>FEB 24 | APR 19<br>APR 05<br>MAR 18 | MAY 10<br>APR 23<br>APR 09 | OCT 05<br>OCT 13<br>OCT 18 | OCT 20<br>OCT 26<br>NOV 05 | NOV 03<br>NOV 09<br>NOV 22 | 212<br>228<br>262       | 183<br>204<br>231 | 153<br>180<br>200 | 26<br>19<br>12                    |  |
| MARION                    | 36<br>32<br>28                | APR 11<br>MAR 24<br>MAR 07 | APR 26<br>APR 08<br>MAR 23 | MAY 11<br>APR 23<br>APR 07 | OCT 04<br>OCT 15<br>OCT 22 | OCT 15<br>OCT 31<br>NOV 07 | OCT 27<br>NOV 16<br>NOV 23 | 190<br>225<br>252       | 172<br>205<br>229 | 154<br>185<br>206 | 30<br>22<br>14                    |  |
| MARSHALL                  | 36<br>32<br>28                | APR 24<br>APR 12<br>MAR 27 | MAY 10<br>MAY 17<br>APR 14 | MAY 26<br>MAY 01           | SEP 23<br>OCT 03<br>OCT 10 | OCT 04<br>OCT 15<br>OCT 22 | OCT 16<br>OCT 27<br>NOV 03 | 166<br>187<br>211       | 147<br>167<br>191 | 127<br>147<br>171 | 38<br>30<br>22                    |  |
| MAYSVILLE 6 SW            | 36<br>32<br>28                | APR 19<br>APR 08<br>MAR 18 | MAY 05<br>APR 22<br>APR 06 | MAY 20<br>MAY 06<br>APR 26 | SEP 29<br>OCT 08<br>OCT 19 | OCT 14<br>OCT 24<br>NOV 05 | OCT 28<br>NOV 10<br>NOV 22 | 185<br>206<br>245       | 161<br>185<br>212 | 137<br>163<br>179 | 28<br>22<br>15                    |  |
| MONCURE 3 SE              | 36<br>32<br>28                | APR 17<br>APR 10<br>MAR 23 | MAY 03<br>APR 24<br>APR 09 | MAY 19<br>MAY 08<br>APR 25 | SEP 30<br>OCT 06<br>OCT 12 | OCT 11<br>OCT 19<br>OCT 24 | OCT 21<br>OCT 31<br>NOV 06 | 180<br>196<br>220       | 160<br>177<br>198 | 139<br>158<br>176 | 36<br>29<br>22                    |  |
| MONROE 4 SE               | 36<br>32<br>28                | APR 10<br>MAR 28<br>MAR 11 | APR 25<br>APR 12<br>MAR 26 | MAY 10<br>MAY 17<br>APR 09 | OCT 05<br>OCT 12<br>OCT 23 | OCT 16<br>OCT 25<br>NOV 04 | OCT 27<br>NOV 06<br>NOV 17 | 193<br>215<br>244       | 173<br>195<br>223 | 154<br>174<br>202 | 26<br>20<br>13                    |  |
| MOREHEAD CITY 2 WNW       | 36<br>32<br>28                | MAR 16<br>FEB 26<br>JAN 28 | APR 01<br>MAR 20<br>FEB 28 | APR 17<br>APR 11<br>MAR 31 | OCT 22<br>NOV 03<br>NOV 10 | NOV 06<br>NOV 19<br>NOV 29 | NOV 22<br>DEC 05<br>DEC 19 | 244<br>274<br>317       | 218<br>243<br>274 | 193<br>213<br>231 | 16<br>10<br>6                     |  |
| MORGANTON                 | 36<br>32<br>28                | APR 18<br>APR 04<br>MAR 16 | MAY 04<br>MAY 10<br>APR 03 | MAY 20<br>MAY 10<br>APR 20 | SEP 29<br>OCT 06<br>OCT 17 | OCT 10<br>OCT 18<br>OCT 31 | OCT 21<br>OCT 29<br>NOV 14 | 178<br>199<br>234       | 158<br>178<br>211 | 138<br>157<br>187 | 32<br>25<br>17                    |  |
| MOUNT AIRY                | 36<br>32<br>28                | APR 21<br>APR 07<br>MAR 27 | MAY 07<br>MAY 09<br>APR 08 | MAY 23<br>MAY 09<br>APR 20 | SEP 24<br>OCT 04<br>OCT 12 | OCT 05<br>OCT 15<br>OCT 26 | OCT 16<br>OCT 27<br>NOV 09 | 169<br>190<br>214       | 151<br>175<br>200 | 132<br>160<br>186 | 36<br>28<br>20                    |  |
| NASHVILLE                 | 36<br>32<br>28                | MAR 31<br>MAR 19<br>MAR 04 | APR 17<br>APR 04<br>MAR 19 | MAY 03<br>APR 20<br>APR 02 | OCT 09<br>OCT 17<br>OCT 29 | OCT 21<br>OCT 31<br>NOV 11 | NOV 02<br>NOV 13<br>NOV 24 | 204<br>230<br>254       | 187<br>209<br>236 | 169<br>188<br>218 | 28<br>21<br>14                    |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| NORTH CAROLINA            |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| NEW BERN FAA AP           | 36<br>32<br>28                | MAR 24<br>MAR 08<br>FEB 14 | APR 08<br>APR 07<br>MAR 06 | APR 22<br>APR 07<br>MAR 26 | OCT 17<br>OCT 24<br>NOV 05 | NOV 01<br>NOV 09<br>NOV 23 | NOV 16<br>NOV 26<br>DEC 11 | 231<br>254<br>290       | 207<br>231<br>261 | 182<br>208<br>233 | 21<br>15<br>8                     |  |
| NEW HOLLAND               | 36<br>32<br>28                | MAR 26<br>MAR 14<br>FEB 17 | APR 12<br>MAR 30<br>MAR 12 | APR 28<br>APR 15<br>APR 03 | OCT 16<br>OCT 26<br>NOV 08 | OCT 31<br>NOV 11<br>NOV 26 | NOV 15<br>NOV 27<br>DEC 14 | 221<br>249<br>288       | 202<br>225<br>259 | 182<br>201<br>229 | 20<br>14<br>8                     |  |
| OXFORD 2 SW               | 36<br>32<br>28                | APR 06<br>MAR 23<br>MAR 06 | APR 21<br>APR 06<br>MAR 21 | MAY 06<br>APR 20<br>APR 05 | OCT 09<br>OCT 13<br>OCT 25 | OCT 22<br>OCT 28<br>NOV 10 | NOV 05<br>NOV 12<br>NOV 26 | 202<br>226<br>259       | 184<br>205<br>234 | 165<br>184<br>209 | 28<br>21<br>13                    |  |
| PISGAH FOREST 1 N         | 36<br>32<br>28                | APR 27<br>APR 16<br>MAR 31 | MAY 12<br>MAY 02<br>APR 14 | MAY 27<br>MAY 17<br>APR 28 | SEP 22<br>SEP 30<br>OCT 10 | OCT 04<br>OCT 09<br>OCT 24 | OCT 15<br>OCT 19<br>NOV 06 | 161<br>178<br>208       | 145<br>160<br>192 | 128<br>142<br>175 | 40<br>33<br>24                    |  |
| PLYMOUTH 5 E              | 36<br>32<br>28                | APR 11<br>MAR 30<br>MAR 12 | APR 28<br>APR 14<br>MAR 29 | MAY 15<br>APR 29<br>APR 14 | OCT 04<br>OCT 11<br>OCT 24 | OCT 17<br>OCT 25<br>NOV 09 | OCT 30<br>NOV 08<br>NOV 24 | 193<br>212<br>249       | 172<br>193<br>224 | 150<br>174<br>199 | 27<br>20<br>13                    |  |
| RALEIGH DURHAM WSO        | 36<br>32<br>28                | APR 10<br>MAR 24<br>MAR 10 | APR 25<br>APR 11<br>MAR 25 | MAY 11<br>APR 29<br>APR 10 | OCT 06<br>OCT 16<br>OCT 23 | OCT 18<br>OCT 27<br>NOV 08 | OCT 30<br>NOV 07<br>NOV 24 | 193<br>220<br>249       | 175<br>198<br>227 | 157<br>177<br>204 | 29<br>22<br>14                    |  |
| RALEIGH-N C STATE UNIV    | 36<br>32<br>28                | MAR 29<br>MAR 18<br>FEB 22 | APR 14<br>MAR 31<br>MAR 13 | APR 30<br>APR 13<br>APR 01 | OCT 12<br>OCT 19<br>OCT 30 | OCT 26<br>NOV 05<br>NOV 16 | NOV 10<br>NOV 22<br>DEC 03 | 217<br>242<br>275       | 195<br>218<br>247 | 172<br>194<br>219 | 25<br>18<br>11                    |  |
| REIDSVILLE 2 NW           | 36<br>32<br>28                | APR 04<br>MAR 25<br>MAR 08 | APR 23<br>APR 07<br>MAR 23 | MAY 12<br>APR 20<br>APR 08 | OCT 06<br>OCT 13<br>OCT 20 | OCT 18<br>OCT 27<br>NOV 07 | OCT 30<br>NOV 10<br>NOV 25 | 198<br>222<br>253       | 177<br>203<br>228 | 156<br>183<br>203 | 30<br>22<br>14                    |  |
| SALISBURY                 | 36<br>32<br>28                | APR 11<br>MAR 25<br>MAR 07 | APR 25<br>APR 09<br>MAR 24 | MAY 10<br>APR 23<br>APR 11 | OCT 06<br>OCT 14<br>OCT 25 | OCT 18<br>OCT 26<br>NOV 08 | OCT 30<br>NOV 08<br>NOV 22 | 193<br>220<br>253       | 175<br>200<br>228 | 156<br>180<br>203 | 28<br>21<br>14                    |  |
| SHELBY 2 NNE              | 36<br>32<br>28                | APR 10<br>MAR 27<br>MAR 13 | APR 25<br>APR 12<br>MAR 31 | MAY 09<br>APR 27<br>APR 17 | OCT 04<br>OCT 13<br>OCT 18 | OCT 16<br>OCT 25<br>NOV 02 | OCT 29<br>NOV 05<br>NOV 16 | 195<br>213<br>240       | 174<br>195<br>215 | 153<br>177<br>191 | 32<br>25<br>17                    |  |
| SILER CITY 2 NW           | 36<br>32<br>28                | APR 18<br>APR 11<br>MAR 31 | MAY 06<br>MAY 13<br>APR 16 | MAY 24<br>MAY 02           | SEP 26<br>OCT 03<br>OCT 10 | OCT 06<br>OCT 15<br>OCT 24 | OCT 17<br>OCT 26<br>NOV 07 | 173<br>191<br>211       | 152<br>170<br>191 | 132<br>149<br>170 | 36<br>30<br>23                    |  |
| SLOAN 3 S                 | 36<br>32<br>28                | APR 09<br>MAR 28<br>MAR 08 | APR 25<br>APR 13<br>MAR 27 | MAY 10<br>APR 30<br>APR 14 | OCT 04<br>OCT 15<br>OCT 22 | OCT 18<br>OCT 26<br>NOV 07 | NOV 01<br>NOV 06<br>NOV 22 | 196<br>215<br>252       | 175<br>195<br>224 | 154<br>175<br>197 | 26<br>20<br>13                    |  |
| SMITHFIELD                | 36<br>32<br>28                | APR 08<br>MAR 23<br>MAR 06 | APR 22<br>APR 08<br>MAR 20 | MAY 06<br>APR 24<br>APR 04 | OCT 05<br>OCT 12<br>OCT 19 | OCT 18<br>OCT 25<br>NOV 04 | OCT 31<br>NOV 07<br>NOV 20 | 199<br>220<br>251       | 178<br>200<br>228 | 158<br>180<br>205 | 27<br>20<br>13                    |  |
| SOUTHPORT 5 N             | 36<br>32<br>28                | MAR 16<br>FEB 28<br>FEB 04 | APR 04<br>MAR 21<br>MAR 08 | APR 23<br>APR 12<br>APR 08 | OCT 16<br>OCT 24<br>NOV 08 | OCT 31<br>NOV 11<br>NOV 24 | NOV 15<br>NOV 29<br>DEC 11 | 238<br>266<br>303       | 209<br>234<br>261 | 181<br>202<br>218 | 18<br>12<br>7                     |  |
| STATESVILLE 2 NNE         | 36<br>32<br>28                | APR 15<br>APR 05<br>MAR 20 | MAY 03<br>MAY 11<br>APR 11 | MAY 22<br>MAY 11<br>MAY 02 | SEP 29<br>OCT 03<br>OCT 12 | OCT 11<br>OCT 19<br>OCT 25 | OCT 24<br>NOV 03<br>NOV 08 | 187<br>206<br>224       | 160<br>178<br>197 | 134<br>151<br>169 | 34<br>27<br>20                    |  |
| TARBORO 1 S               | 36<br>32<br>28                | APR 04<br>MAR 19<br>MAR 04 | APR 20<br>APR 06<br>MAR 21 | MAY 06<br>APR 24<br>APR 06 | OCT 08<br>OCT 14<br>OCT 28 | OCT 21<br>OCT 28<br>NOV 10 | NOV 04<br>NOV 11<br>NOV 23 | 205<br>228<br>257       | 184<br>204<br>234 | 163<br>180<br>210 | 27<br>20<br>13                    |  |
| TRANSOU                   | 36<br>32<br>28                | MAY 10<br>APR 28<br>APR 16 | MAY 27<br>MAY 16<br>MAY 01 | JUN 12<br>JUN 03<br>MAY 17 | SEP 01<br>SEP 16<br>SEP 28 | SEP 17<br>SEP 30<br>OCT 08 | OCT 02<br>OCT 13<br>OCT 17 | 135<br>155<br>175       | 113<br>136<br>159 | 90<br>117<br>143  | 44<br>37<br>28                    |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| NORTH CAROLINA            |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| TRYON                     | 36                            | APR 06                  | APR 20 | MAY 04 | OCT 04                  | OCT 19 | NOV 03 | 203                     | 181 | 160 | 27                                |  |
|                           | 32                            | MAR 16                  | APR 05 | APR 25 | OCT 15                  | OCT 29 | NOV 13 | 231                     | 207 | 182 | 19                                |  |
|                           | 28                            | MAR 01                  | MAR 20 | APR 07 | OCT 25                  | NOV 11 | NOV 28 | 263                     | 236 | 209 | 12                                |  |
| WADESBORO                 | 36                            | MAR 27                  | APR 09 | APR 22 | OCT 13                  | OCT 26 | NOV 09 | 217                     | 200 | 183 | 25                                |  |
|                           | 32                            | MAR 14                  | MAR 28 | APR 12 | OCT 20                  | NOV 04 | NOV 20 | 244                     | 220 | 197 | 18                                |  |
|                           | 28                            | FEB 27                  | MAR 15 | APR 01 | OCT 30                  | NOV 14 | NOV 30 | 266                     | 243 | 220 | 11                                |  |
| WAYNESVILLE 1 E           | 36                            | MAY 03                  | MAY 17 | MAY 31 | SEP 20                  | OCT 03 | OCT 15 | 157                     | 138 | 118 | 38                                |  |
|                           | 32                            | APR 23                  | MAY 07 | MAY 21 | SEP 25                  | OCT 07 | OCT 19 | 170                     | 153 | 136 | 31                                |  |
|                           | 28                            | APR 05                  | APR 19 | MAY 03 | OCT 05                  | OCT 17 | OCT 29 | 199                     | 180 | 161 | 23                                |  |
| WILLARD 4 SW              | 36                            | APR 04                  | APR 18 | MAY 02 | OCT 10                  | OCT 22 | NOV 03 | 203                     | 186 | 169 | 23                                |  |
|                           | 32                            | MAR 18                  | APR 04 | APR 20 | OCT 18                  | NOV 01 | NOV 16 | 237                     | 211 | 186 | 17                                |  |
|                           | 28                            | MAR 07                  | MAR 20 | APR 02 | OCT 27                  | NOV 11 | NOV 27 | 257                     | 236 | 215 | 11                                |  |
| WILSON 2 W                | 36                            | APR 02                  | APR 16 | MAY 01 | OCT 08                  | OCT 21 | NOV 03 | 208                     | 187 | 167 | 27                                |  |
|                           | 32                            | MAR 20                  | APR 02 | APR 15 | OCT 16                  | OCT 29 | NOV 11 | 228                     | 209 | 189 | 20                                |  |
|                           | 28                            | FEB 28                  | MAR 17 | APR 04 | OCT 28                  | NOV 13 | NOV 29 | 266                     | 240 | 214 | 12                                |  |
| NORTH DAKOTA              |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| ALMONT 7 W                | 36                            | MAY 09                  | MAY 22 | JUN 05 | AUG 22                  | SEP 11 | OCT 01 | 138                     | 111 | 83  | 55                                |  |
|                           | 32                            | APR 23                  | MAY 11 | MAY 29 | SEP 10                  | SEP 25 | OCT 10 | 162                     | 136 | 111 | 49                                |  |
|                           | 28                            | APR 19                  | MAY 03 | MAY 17 | SEP 19                  | OCT 04 | OCT 20 | 172                     | 154 | 135 | 42                                |  |
| AMENIA                    | 36                            | MAY 08                  | MAY 24 | JUN 08 | AUG 26                  | SEP 12 | SEP 28 | 134                     | 111 | 87  | 56                                |  |
|                           | 32                            | MAY 03                  | MAY 14 | MAY 25 | SEP 12                  | SEP 24 | OCT 05 | 147                     | 132 | 117 | 50                                |  |
|                           | 28                            | APR 17                  | MAY 02 | MAY 18 | SEP 16                  | OCT 02 | OCT 17 | 174                     | 152 | 130 | 43                                |  |
| AMIDON                    | 36                            | MAY 11                  | MAY 31 | JUN 20 | AUG 22                  | SEP 11 | SEP 30 | 131                     | 102 | 72  | 57                                |  |
|                           | 32                            | MAY 01                  | MAY 17 | JUN 02 | SEP 05                  | SEP 20 | OCT 05 | 145                     | 125 | 105 | 51                                |  |
|                           | 28                            | APR 21                  | MAY 06 | MAY 21 | SEP 16                  | OCT 02 | OCT 18 | 171                     | 148 | 125 | 43                                |  |
| ASHLEY                    | 36                            | MAY 07                  | JUN 01 | JUN 25 | AUG 23                  | SEP 08 | SEP 23 | 129                     | 98  | 68  | 58                                |  |
|                           | 32                            | MAY 01                  | MAY 19 | JUN 05 | SEP 01                  | SEP 16 | OCT 01 | 142                     | 120 | 97  | 53                                |  |
|                           | 28                            | APR 26                  | MAY 12 | MAY 29 | SEP 13                  | SEP 28 | OCT 14 | 162                     | 138 | 114 | 46                                |  |
| BISMARCK WSO              | 36                            | MAY 07                  | MAY 30 | JUN 22 | AUG 26                  | SEP 11 | SEP 27 | 129                     | 103 | 78  | 57                                |  |
|                           | 32                            | MAY 02                  | MAY 14 | MAY 26 | SEP 07                  | SEP 20 | OCT 04 | 146                     | 129 | 111 | 51                                |  |
|                           | 28                            | APR 20                  | MAY 05 | MAY 19 | SEP 12                  | SEP 29 | OCT 15 | 168                     | 146 | 125 | 44                                |  |
| BOTTINEAU                 | 36                            | MAY 18                  | JUN 04 | JUN 20 | AUG 23                  | SEP 06 | SEP 19 | 113                     | 93  | 74  | 61                                |  |
|                           | 32                            | MAY 07                  | MAY 21 | JUN 04 | SEP 05                  | SEP 16 | SEP 27 | 136                     | 117 | 98  | 55                                |  |
|                           | 28                            | APR 27                  | MAY 12 | MAY 27 | SEP 09                  | SEP 25 | OCT 11 | 157                     | 135 | 113 | 49                                |  |
| BOWBELLS                  | 36                            | MAY 15                  | JUN 06 | JUN 27 | AUG 16                  | SEP 02 | SEP 20 | 113                     | 88  | 63  | 61                                |  |
|                           | 32                            | MAY 07                  | MAY 24 | JUN 09 | AUG 27                  | SEP 13 | SEP 29 | 135                     | 111 | 88  | 55                                |  |
|                           | 28                            | APR 26                  | MAY 12 | MAY 28 | SEP 03                  | SEP 23 | OCT 13 | 157                     | 134 | 110 | 48                                |  |
| BOWMAN COURT HOUSE        | 36                            | MAY 15                  | MAY 28 | JUN 11 | AUG 25                  | SEP 10 | SEP 26 | 126                     | 104 | 82  | 58                                |  |
|                           | 32                            | MAY 02                  | MAY 17 | JUN 02 | SEP 04                  | SEP 19 | OCT 04 | 145                     | 124 | 103 | 52                                |  |
|                           | 28                            | APR 18                  | MAY 03 | MAY 18 | SEP 16                  | SEP 30 | OCT 14 | 169                     | 149 | 130 | 44                                |  |
| BUTTE                     | 36                            | MAY 11                  | MAY 24 | JUN 06 | AUG 29                  | SEP 13 | SEP 28 | 130                     | 111 | 92  | 57                                |  |
|                           | 32                            | MAY 02                  | MAY 15 | MAY 29 | SEP 04                  | SEP 21 | OCT 08 | 150                     | 128 | 106 | 51                                |  |
|                           | 28                            | APR 26                  | MAY 08 | MAY 20 | SEP 17                  | OCT 04 | OCT 21 | 171                     | 149 | 127 | 44                                |  |
| CARRINGTON                | 36                            | MAY 13                  | MAY 25 | JUN 07 | AUG 26                  | SEP 11 | SEP 26 | 130                     | 108 | 86  | 59                                |  |
|                           | 32                            | MAY 04                  | MAY 15 | MAY 26 | SEP 08                  | SEP 21 | OCT 04 | 146                     | 128 | 110 | 54                                |  |
|                           | 28                            | APR 23                  | MAY 06 | MAY 18 | SEP 13                  | SEP 29 | OCT 16 | 168                     | 146 | 125 | 47                                |  |
| CARSON                    | 36                            | MAY 10                  | JUN 03 | JUN 28 | AUG 23                  | SEP 08 | SEP 24 | 127                     | 96  | 66  | 59                                |  |
|                           | 32                            | MAY 04                  | MAY 20 | JUN 06 | AUG 31                  | SEP 17 | OCT 03 | 141                     | 119 | 96  | 53                                |  |
|                           | 28                            | APR 23                  | MAY 07 | MAY 22 | SEP 11                  | SEP 27 | OCT 12 | 164                     | 142 | 120 | 46                                |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                  | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                  |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90               |                                   |  |
| NORTH DAKOTA              |                               |                            |                            |                            |                            |                            |                            |                            |                   |                  |                                   |  |
| CAVALIER                  | 36<br>32<br>28                | MAY 11<br>MAY 04<br>APR 23 | MAY 27<br>MAY 18<br>MAY 05 | JUN 11<br>JUN 02<br>MAY 17 | AUG 27<br>SEP 08<br>SEP 16 | SEP 11<br>SEP 23<br>OCT 02 | SEP 26<br>OCT 08<br>OCT 17 | 127<br>150<br>166          | 107<br>127<br>149 | 86<br>103<br>132 | 58<br>52<br>45                    |  |
| CENTER                    | 36<br>32<br>28                | MAY 18<br>MAY 08<br>APR 27 | JUN 04<br>MAY 20<br>MAY 12 | JUN 22<br>JUN 02<br>MAY 27 | AUG 18<br>AUG 30<br>SEP 09 | SEP 04<br>SEP 14<br>SEP 24 | SEP 21<br>SEP 29<br>OCT 09 | 116<br>135<br>155          | 91<br>116<br>134  | 66<br>97<br>112  | 60<br>54<br>47                    |  |
| COOPERSTOWN               | 36<br>32<br>28                | MAY 12<br>MAY 03<br>APR 24 | MAY 27<br>MAY 18<br>MAY 07 | JUN 10<br>JUN 01<br>MAY 19 | AUG 26<br>SEP 09<br>SEP 13 | SEP 09<br>SEP 20<br>SEP 29 | SEP 23<br>OCT 01<br>OCT 14 | 125<br>142<br>163          | 105<br>124<br>144 | 85<br>106<br>125 | 57<br>52<br>45                    |  |
| CROSBY                    | 36<br>32<br>28                | MAY 13<br>MAY 03<br>APR 23 | JUN 01<br>MAY 20<br>MAY 07 | JUN 19<br>JUN 05<br>MAY 22 | AUG 21<br>AUG 31<br>SEP 11 | SEP 07<br>SEP 16<br>SEP 27 | SEP 23<br>OCT 03<br>OCT 13 | 123<br>145<br>163          | 97<br>119<br>142  | 71<br>93<br>121  | 59<br>53<br>46                    |  |
| DICKINSON FAA AIRPORT     | 36<br>32<br>28                | MAY 08<br>APR 27<br>APR 19 | MAY 28<br>MAY 14<br>MAY 04 | JUN 16<br>MAY 30<br>MAY 19 | AUG 31<br>SEP 06<br>SEP 21 | SEP 14<br>SEP 23<br>OCT 04 | SEP 28<br>OCT 10<br>OCT 17 | 132<br>156<br>172          | 109<br>132<br>152 | 85<br>108<br>132 | 57<br>51<br>44                    |  |
| DICKINSON EXP STATION     | 36<br>32<br>28                | MAY 14<br>MAY 03<br>APR 24 | JUN 06<br>MAY 21<br>MAY 10 | JUN 28<br>JUN 09<br>MAY 27 | AUG 16<br>AUG 28<br>SEP 08 | SEP 03<br>SEP 13<br>SEP 24 | SEP 21<br>SEP 28<br>OCT 10 | 114<br>133<br>157          | 89<br>114<br>136  | 64<br>94<br>114  | 60<br>55<br>47                    |  |
| DRAKE                     | 36<br>32<br>28                | MAY 11<br>APR 30<br>APR 20 | MAY 26<br>MAY 15<br>MAY 04 | JUN 10<br>MAY 29<br>MAY 17 | AUG 27<br>SEP 08<br>SEP 15 | SEP 10<br>SEP 21<br>OCT 01 | SEP 25<br>OCT 04<br>OCT 17 | 127<br>147<br>170          | 107<br>129<br>150 | 87<br>111<br>129 | 59<br>53<br>47                    |  |
| DUNN CENTER 2 SW          | 36<br>32<br>28                | MAY 07<br>APR 29<br>APR 24 | MAY 26<br>MAY 17<br>MAY 08 | JUN 15<br>JUN 03<br>MAY 22 | AUG 26<br>SEP 04<br>SEP 17 | SEP 12<br>SEP 21<br>OCT 03 | SEP 28<br>OCT 07<br>OCT 19 | 134<br>152<br>169          | 107<br>126<br>147 | 81<br>101<br>125 | 59<br>53<br>46                    |  |
| EDMORE 1 N                | 36<br>32<br>28                | MAY 21<br>MAY 11<br>APR 27 | JUN 13<br>MAY 28<br>MAY 15 | JUL 06<br>JUN 14<br>JUN 01 | AUG 15<br>AUG 24<br>SEP 09 | AUG 31<br>SEP 10<br>SEP 21 | SEP 16<br>SEP 26<br>OCT 03 | 106<br>128<br>147          | 78<br>104<br>128  | 50<br>80<br>110  | 61<br>56<br>49                    |  |
| ELLENDALE                 | 36<br>32<br>28                | MAY 07<br>APR 29<br>APR 21 | MAY 22<br>MAY 13<br>MAY 04 | JUN 06<br>MAY 26<br>MAY 17 | AUG 29<br>SEP 11<br>SEP 23 | SEP 14<br>SEP 23<br>OCT 06 | SEP 30<br>OCT 05<br>OCT 20 | 138<br>148<br>172          | 114<br>133<br>155 | 90<br>118<br>138 | 56<br>50<br>43                    |  |
| FESSENDEN                 | 36<br>32<br>28                | MAY 11<br>MAY 02<br>APR 24 | MAY 27<br>MAY 16<br>MAY 06 | JUN 13<br>MAY 29<br>MAY 19 | AUG 24<br>SEP 02<br>SEP 14 | SEP 08<br>SEP 17<br>SEP 29 | SEP 22<br>OCT 03<br>OCT 15 | 126<br>144<br>167          | 103<br>124<br>145 | 79<br>104<br>124 | 58<br>52<br>45                    |  |
| FORMAN 5 SSE              | 36<br>32<br>28                | MAY 11<br>MAY 02<br>APR 20 | MAY 22<br>MAY 14<br>MAY 04 | JUN 01<br>MAY 26<br>MAY 18 | SEP 02<br>SEP 08<br>SEP 21 | SEP 15<br>SEP 23<br>OCT 04 | SEP 28<br>OCT 08<br>OCT 18 | 134<br>152<br>173          | 116<br>131<br>153 | 97<br>111<br>132 | 56<br>50<br>43                    |  |
| FORT YATES                | 36<br>32<br>28                | MAY 05<br>APR 29<br>APR 16 | MAY 19<br>MAY 11<br>MAY 03 | JUN 02<br>MAY 24<br>MAY 19 | AUG 31<br>SEP 08<br>SEP 19 | SEP 17<br>SEP 26<br>OCT 06 | OCT 03<br>OCT 14<br>OCT 24 | 143<br>162<br>182          | 120<br>137<br>156 | 97<br>112<br>130 | 54<br>49<br>42                    |  |
| FOXHOLM 7 N               | 36<br>32<br>28                | MAY 16<br>MAY 06<br>APR 27 | JUN 03<br>MAY 21<br>MAY 10 | JUN 22<br>JUN 05<br>MAY 22 | AUG 17<br>AUG 26<br>SEP 07 | SEP 03<br>SEP 14<br>SEP 25 | SEP 21<br>OCT 03<br>OCT 12 | 115<br>138<br>158          | 91<br>115<br>137  | 67<br>92<br>116  | 59<br>52<br>46                    |  |
| FULLERTON 1 ESE           | 36<br>32<br>28                | MAY 09<br>MAY 01<br>APR 21 | MAY 24<br>MAY 15<br>MAY 06 | JUN 07<br>MAY 29<br>MAY 20 | AUG 23<br>AUG 31<br>SEP 16 | SEP 07<br>SEP 16<br>OCT 01 | SEP 23<br>OCT 03<br>OCT 16 | 126<br>146<br>169          | 106<br>124<br>148 | 85<br>101<br>127 | 57<br>51<br>44                    |  |
| GACKLE                    | 36<br>32<br>28                | MAY 07<br>MAY 02<br>APR 23 | MAY 25<br>MAY 15<br>MAY 06 | JUN 12<br>MAY 29<br>MAY 19 | AUG 30<br>SEP 05<br>SEP 15 | SEP 12<br>SEP 22<br>OCT 01 | SEP 25<br>OCT 09<br>OCT 18 | 132<br>153<br>169          | 109<br>129<br>147 | 86<br>104<br>125 | 56<br>51<br>44                    |  |
| GARRISON                  | 36<br>32<br>28                | MAY 09<br>APR 30<br>APR 22 | MAY 28<br>MAY 15<br>MAY 07 | JUN 16<br>MAY 30<br>MAY 22 | AUG 26<br>SEP 07<br>SEP 12 | SEP 10<br>SEP 19<br>SEP 29 | SEP 24<br>OCT 01<br>OCT 16 | 127<br>145<br>165          | 104<br>126<br>145 | 80<br>108<br>124 | 59<br>53<br>46                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                   |  |
| NORTH DAKOTA              |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                   |  |
| GRAFTON                   | 36<br>32<br>28                | MAY 11<br>MAY 05<br>APR 23 | JUN 01<br>MAY 20<br>MAY 06 | JUN 22<br>JUN 04<br>MAY 20 | AUG 22<br>SEP 03<br>SEP 14 | SEP 09<br>SEP 20<br>SEP 29 | SEP 27<br>OCT 08<br>OCT 13 | 127<br>149<br>161          | 99<br>123<br>144  | 71<br>98<br>128   | 58<br>52<br>45                    |  |
| GRAND FORKS FAA AP        | 36<br>32<br>28                | MAY 12<br>MAY 02<br>APR 12 | MAY 30<br>MAY 20<br>APR 30 | JUN 17<br>JUN 07<br>MAY 18 | AUG 25<br>SEP 05<br>SEP 17 | SEP 11<br>SEP 20<br>OCT 04 | SEP 28<br>OCT 05<br>OCT 20 | 131<br>145<br>181          | 104<br>123<br>156 | 77<br>100<br>130  | 58<br>51<br>43                    |  |
| GRAND FORKS UNIVERSITY    | 36<br>32<br>28                | MAY 09<br>MAY 01<br>APR 20 | MAY 25<br>MAY 15<br>MAY 03 | JUN 10<br>MAY 29<br>MAY 15 | SEP 02<br>SEP 13<br>SEP 17 | SEP 16<br>SEP 24<br>OCT 04 | SEP 29<br>OCT 06<br>OCT 21 | 135<br>150<br>176          | 113<br>132<br>154 | 91<br>114<br>133  | 55<br>49<br>43                    |  |
| GRANVILLE                 | 36<br>32<br>28                | MAY 14<br>MAY 04<br>APR 25 | JUN 01<br>MAY 21<br>MAY 11 | JUN 19<br>JUN 07<br>MAY 26 | AUG 20<br>AUG 30<br>SEP 13 | SEP 05<br>SEP 16<br>SEP 27 | SEP 21<br>OCT 03<br>OCT 12 | 116<br>139<br>160          | 95<br>118<br>139  | 74<br>96<br>118   | 59<br>53<br>46                    |  |
| GRENORA                   | 36<br>32<br>28                | MAY 09<br>MAY 03<br>APR 22 | MAY 31<br>MAY 19<br>MAY 09 | JUN 21<br>JUN 04<br>MAY 25 | AUG 22<br>AUG 31<br>SEP 09 | SEP 07<br>SEP 17<br>SEP 26 | SEP 22<br>OCT 03<br>OCT 13 | 125<br>142<br>159          | 98<br>120<br>139  | 72<br>98<br>119   | 59<br>53<br>46                    |  |
| HANKINSON R R STATION     | 36<br>32<br>28                | MAY 08<br>APR 28<br>APR 14 | MAY 21<br>MAY 11<br>APR 29 | JUN 03<br>MAY 23<br>MAY 14 | SEP 08<br>SEP 14<br>SEP 29 | SEP 18<br>SEP 28<br>OCT 12 | SEP 29<br>OCT 13<br>OCT 25 | 138<br>160<br>187          | 120<br>140<br>165 | 102<br>121<br>143 | 56<br>50<br>44                    |  |
| HANNAH 2 N                | 36<br>32<br>28                | MAY 26<br>MAY 11<br>APR 28 | JUN 14<br>MAY 29<br>MAY 14 | JUL 03<br>JUN 16<br>MAY 31 | AUG 13<br>AUG 26<br>SEP 07 | AUG 28<br>SEP 10<br>SEP 20 | SEP 11<br>SEP 24<br>OCT 02 | 100<br>129<br>149          | 74<br>103<br>127  | 48<br>77<br>106   | 62<br>56<br>49                    |  |
| HANSBORD 3 W              | 36<br>32<br>28                | MAY 17<br>MAY 10<br>APR 28 | JUN 07<br>MAY 28<br>MAY 10 | JUN 28<br>JUN 14<br>MAY 23 | AUG 17<br>AUG 27<br>SEP 10 | SEP 02<br>SEP 11<br>SEP 24 | SEP 19<br>SEP 27<br>OCT 09 | 114<br>130<br>157          | 86<br>106<br>136  | 59<br>82<br>116   | 61<br>56<br>48                    |  |
| HETTINGER                 | 36<br>32<br>28                | MAY 09<br>APR 30<br>APR 21 | MAY 31<br>MAY 18<br>MAY 07 | JUN 22<br>JUN 04<br>MAY 23 | AUG 23<br>SEP 05<br>SEP 11 | SEP 08<br>SEP 16<br>SEP 28 | SEP 25<br>SEP 27<br>OCT 15 | 129<br>140<br>167          | 100<br>121<br>143 | 71<br>102<br>120  | 57<br>51<br>44                    |  |
| HILLSBORO                 | 36<br>32<br>28                | MAY 07<br>APR 29<br>APR 14 | MAY 21<br>MAY 11<br>APR 28 | JUN 04<br>MAY 24<br>MAY 13 | SEP 05<br>SEP 13<br>SEP 20 | SEP 18<br>SEP 25<br>OCT 06 | SEP 30<br>OCT 08<br>OCT 21 | 139<br>152<br>181          | 119<br>136<br>160 | 98<br>120<br>138  | 55<br>49<br>43                    |  |
| JAMESTOWN FAA AIRPORT     | 36<br>32<br>28                | MAY 10<br>MAY 03<br>APR 26 | MAY 25<br>MAY 16<br>MAY 07 | JUN 09<br>MAY 29<br>MAY 18 | AUG 28<br>SEP 09<br>SEP 14 | SEP 12<br>SEP 21<br>OCT 01 | SEP 26<br>OCT 04<br>OCT 18 | 133<br>145<br>167          | 109<br>127<br>146 | 85<br>109<br>125  | 58<br>52<br>45                    |  |
| JAMESTOWN ST HOSPITAL     | 36<br>32<br>28                | MAY 09<br>MAY 02<br>APR 21 | MAY 22<br>MAY 12<br>MAY 04 | JUN 04<br>MAY 21<br>MAY 17 | AUG 29<br>SEP 08<br>SEP 18 | SEP 12<br>SEP 23<br>OCT 04 | SEP 27<br>OCT 07<br>OCT 20 | 133<br>150<br>172          | 113<br>133<br>152 | 93<br>117<br>132  | 56<br>50<br>43                    |  |
| KENMORE 1 WSW             | 36<br>32<br>28                | MAY 17<br>MAY 04<br>APR 21 | JUN 01<br>MAY 18<br>MAY 05 | JUN 15<br>JUN 02<br>MAY 19 | AUG 20<br>AUG 30<br>SEP 08 | SEP 05<br>SEP 17<br>SEP 26 | SEP 21<br>OCT 05<br>OCT 15 | 116<br>142<br>166          | 96<br>121<br>143  | 76<br>99<br>120   | 60<br>55<br>47                    |  |
| LANGDON EXP FARM          | 36<br>32<br>28                | MAY 22<br>MAY 10<br>APR 29 | JUN 11<br>MAY 30<br>MAY 15 | JUL 01<br>JUN 18<br>MAY 31 | AUG 12<br>AUG 25<br>SEP 08 | AUG 30<br>SEP 10<br>SEP 21 | SEP 17<br>SEP 25<br>OCT 04 | 109<br>127<br>151          | 79<br>102<br>128  | 50<br>77<br>106   | 62<br>56<br>49                    |  |
| LARIMORE                  | 36<br>32<br>28                | MAY 10<br>MAY 07<br>APR 19 | MAY 28<br>MAY 20<br>MAY 05 | JUN 15<br>JUN 01<br>MAY 21 | AUG 24<br>SEP 06<br>SEP 15 | SEP 10<br>SEP 22<br>OCT 04 | SEP 27<br>OCT 08<br>OCT 22 | 128<br>147<br>177          | 104<br>125<br>151 | 81<br>102<br>125  | 57<br>51<br>45                    |  |
| LEEDS                     | 36<br>32<br>28                | MAY 16<br>MAY 04<br>APR 25 | JUN 04<br>MAY 20<br>MAY 11 | JUN 23<br>JUN 06<br>MAY 27 | AUG 22<br>AUG 28<br>SEP 10 | SEP 06<br>SEP 15<br>SEP 27 | SEP 21<br>OCT 02<br>OCT 13 | 123<br>144<br>162          | 94<br>116<br>138  | 65<br>89<br>113   | 59<br>53<br>46                    |  |
| LINTON                    | 36<br>32<br>28                | MAY 09<br>APR 29<br>APR 27 | JUN 02<br>MAY 20<br>MAY 12 | JUN 27<br>JUN 10<br>MAY 27 | AUG 28<br>SEP 01<br>SEP 09 | SEP 10<br>SEP 15<br>SEP 27 | SEP 24<br>SEP 29<br>OCT 14 | 129<br>142<br>163          | 99<br>117<br>137  | 69<br>93<br>111   | 58<br>52<br>46                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD    |                   |                  | FREEZE/FROST<br>PROBABILITY (*) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------|-------------------|------------------|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1)      |                            |                            | PROBABILITY LEVEL (2)      |                            |                            | PROBABILITY LEVEL (3) |                   |                  |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                    | 50                | 90               |                                 |  |
| NORTH DAKOTA              |                               |                            |                            |                            |                            |                            |                            |                       |                   |                  |                                 |  |
| LISBON                    | 36<br>32<br>28                | MAY 13<br>MAY 06<br>APR 29 | MAY 28<br>MAY 19<br>MAY 10 | JUN 12<br>MAY 31<br>MAY 20 | AUG 23<br>SEP 10<br>SEP 14 | SEP 08<br>SEP 20<br>SEP 27 | SEP 25<br>OCT 01<br>OCT 11 | 129<br>141<br>157     | 103<br>124<br>140 | 76<br>107<br>123 | 57<br>51<br>45                  |  |
| MANDAN EXP STATION        | 36<br>32<br>28                | MAY 10<br>APR 30<br>APR 22 | MAY 26<br>MAY 15<br>MAY 08 | JUN 10<br>MAY 30<br>MAY 23 | AUG 29<br>SEP 07<br>SEP 15 | SEP 13<br>SEP 20<br>SEP 30 | SEP 28<br>OCT 03<br>OCT 15 | 132<br>145<br>165     | 110<br>127<br>145 | 87<br>110<br>124 | 57<br>52<br>45                  |  |
| MAX                       | 36<br>32<br>28                | MAY 13<br>MAY 03<br>APR 21 | MAY 27<br>MAY 16<br>MAY 05 | JUN 10<br>MAY 29<br>MAY 19 | AUG 24<br>SEP 03<br>SEP 11 | SEP 08<br>SEP 19<br>SEP 27 | SEP 23<br>OCT 05<br>OCT 13 | 124<br>147<br>166     | 104<br>125<br>145 | 83<br>104<br>123 | 60<br>54<br>47                  |  |
| MAYVILLE                  | 36<br>32<br>28                | MAY 09<br>MAY 02<br>APR 15 | MAY 23<br>MAY 15<br>MAY 02 | JUN 07<br>MAY 28<br>MAY 19 | SEP 03<br>SEP 12<br>SEP 17 | SEP 16<br>SEP 26<br>OCT 06 | SEP 29<br>OCT 09<br>OCT 24 | 137<br>154<br>185     | 115<br>133<br>156 | 94<br>112<br>127 | 55<br>50<br>43                  |  |
| MCCLUSKY                  | 36<br>32<br>28                | MAY 09<br>APR 29<br>APR 21 | MAY 25<br>MAY 15<br>MAY 06 | JUN 10<br>JUN 01<br>MAY 20 | AUG 26<br>SEP 07<br>SEP 12 | SEP 10<br>SEP 21<br>OCT 11 | SEP 25<br>OCT 04<br>OCT 11 | 132<br>151<br>163     | 108<br>128<br>143 | 83<br>104<br>124 | 58<br>52<br>46                  |  |
| MCHENRY 5 NNW             | 36<br>32<br>28                | MAY 18<br>MAY 08<br>APR 29 | JUN 01<br>MAY 22<br>MAY 11 | JUN 15<br>JUN 05<br>MAY 24 | AUG 25<br>SEP 06<br>SEP 11 | SEP 08<br>SEP 17<br>SEP 26 | SEP 22<br>SEP 28<br>OCT 12 | 120<br>136<br>160     | 98<br>117<br>138  | 77<br>98<br>115  | 59<br>54<br>48                  |  |
| MCLEOD 3 E                | 36<br>32<br>28                | MAY 13<br>MAY 04<br>APR 25 | MAY 27<br>MAY 17<br>MAY 07 | JUN 10<br>MAY 30<br>MAY 19 | AUG 28<br>SEP 07<br>SEP 17 | SEP 11<br>SEP 21<br>OCT 02 | SEP 26<br>OCT 05<br>OCT 16 | 130<br>147<br>165     | 107<br>126<br>147 | 84<br>105<br>129 | 56<br>50<br>44                  |  |
| MEDORA                    | 36<br>32<br>28                | MAY 20<br>MAY 02<br>APR 28 | JUN 10<br>MAY 21<br>MAY 15 | JUL 02<br>JUN 09<br>MAY 31 | AUG 14<br>AUG 26<br>SEP 02 | AUG 30<br>SEP 11<br>SEP 20 | SEP 16<br>SEP 26<br>OCT 07 | 105<br>133<br>151     | 81<br>112<br>127  | 56<br>90<br>103  | 61<br>54<br>47                  |  |
| MINOT FAA AP              | 36<br>32<br>28                | MAY 08<br>APR 27<br>APR 22 | MAY 24<br>MAY 12<br>MAY 03 | JUN 08<br>MAY 27<br>MAY 13 | AUG 29<br>SEP 11<br>SEP 15 | SEP 13<br>SEP 27<br>OCT 05 | SEP 28<br>OCT 12<br>OCT 25 | 134<br>158<br>177     | 112<br>137<br>155 | 90<br>115<br>132 | 56<br>49<br>43                  |  |
| MINOT EXP STATION         | 36<br>32<br>28                | MAY 13<br>APR 30<br>APR 22 | MAY 28<br>MAY 15<br>MAY 05 | JUN 11<br>MAY 31<br>MAY 19 | AUG 27<br>SEP 02<br>SEP 15 | SEP 10<br>SEP 20<br>OCT 01 | SEP 24<br>OCT 08<br>OCT 17 | 127<br>150<br>169     | 105<br>127<br>148 | 83<br>104<br>127 | 58<br>52<br>45                  |  |
| MOHALL                    | 36<br>32<br>28                | MAY 11<br>MAY 02<br>APR 19 | JUN 01<br>MAY 20<br>MAY 08 | JUN 21<br>JUN 06<br>MAY 27 | AUG 22<br>AUG 30<br>SEP 05 | SEP 06<br>SEP 15<br>SEP 24 | SEP 21<br>OCT 01<br>OCT 12 | 124<br>141<br>164     | 97<br>117<br>138  | 69<br>94<br>112  | 60<br>55<br>48                  |  |
| MOTT                      | 36<br>32<br>28                | MAY 13<br>MAY 02<br>APR 26 | JUN 02<br>MAY 21<br>MAY 10 | JUN 23<br>JUN 09<br>MAY 24 | AUG 26<br>SEP 01<br>SEP 08 | SEP 09<br>SEP 15<br>OCT 08 | SEP 23<br>SEP 29<br>OCT 08 | 125<br>141<br>155     | 98<br>117<br>135  | 71<br>92<br>115  | 60<br>54<br>47                  |  |
| NAPOLEON                  | 36<br>32<br>28                | MAY 12<br>MAY 01<br>APR 22 | MAY 27<br>MAY 17<br>MAY 08 | JUN 10<br>JUN 03<br>MAY 23 | AUG 25<br>SEP 08<br>SEP 11 | SEP 10<br>SEP 20<br>SEP 28 | SEP 27<br>OCT 03<br>OCT 14 | 129<br>144<br>167     | 106<br>125<br>142 | 83<br>107<br>118 | 58<br>52<br>45                  |  |
| NEW ENGLAND               | 36<br>32<br>28                | MAY 11<br>MAY 02<br>APR 26 | MAY 31<br>MAY 17<br>MAY 08 | JUN 20<br>JUN 01<br>MAY 21 | AUG 26<br>SEP 05<br>SEP 10 | SEP 08<br>SEP 17<br>SEP 27 | SEP 21<br>SEP 29<br>OCT 14 | 125<br>141<br>161     | 100<br>122<br>141 | 74<br>103<br>121 | 59<br>53<br>46                  |  |
| NEW SALEM 6 WNW           | 36<br>32<br>28                | MAY 07<br>APR 29<br>APR 21 | MAY 30<br>MAY 19<br>MAY 08 | JUN 21<br>JUN 08<br>MAY 24 | AUG 17<br>SEP 07<br>SEP 11 | SEP 05<br>SEP 19<br>SEP 28 | SEP 24<br>SEP 30<br>OCT 15 | 131<br>149<br>165     | 98<br>122<br>142  | 64<br>95<br>119  | 58<br>52<br>45                  |  |
| PARK RIVER                | 36<br>32<br>28                | MAY 11<br>MAY 05<br>APR 20 | MAY 27<br>MAY 16<br>MAY 05 | JUN 13<br>MAY 27<br>MAY 19 | SEP 03<br>SEP 12<br>SEP 17 | SEP 15<br>SEP 25<br>OCT 03 | SEP 28<br>OCT 09<br>OCT 19 | 132<br>150<br>172     | 110<br>132<br>151 | 88<br>114<br>129 | 56<br>50<br>44                  |  |
| PEMBINA 1 S               | 36<br>32<br>28                | MAY 18<br>MAY 09<br>APR 29 | JUN 03<br>MAY 21<br>MAY 12 | JUN 19<br>JUN 02<br>MAY 24 | AUG 24<br>SEP 05<br>SEP 16 | SEP 07<br>SEP 17<br>SEP 29 | SEP 22<br>SEP 30<br>OCT 12 | 116<br>136<br>158     | 95<br>119<br>140  | 75<br>101<br>121 | 59<br>54<br>47                  |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP. THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|--------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                                | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                   |  |
|                           |                                | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                   |  |
| NORTH DAKOTA              |                                |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                   |  |
| PETERSBURG 2 N            | 36<br>32<br>28                 | MAY 15<br>MAY 04<br>APR 20 | JUN 01<br>MAY 18<br>MAY 09 | JUN 19<br>JUN 01<br>MAY 27 | AUG 22<br>AUG 30<br>SEP 11 | SEP 06<br>SEP 17<br>SEP 26 | SEP 22<br>OCT 04<br>OCT 12 | 115<br>145<br>162          | 97<br>121<br>140  | 78<br>97<br>117   | 60<br>54<br>48                    |  |
| PETTIBONE                 | 36<br>32<br>28                 | MAY 11<br>MAY 02<br>APR 21 | MAY 28<br>MAY 18<br>MAY 08 | JUN 13<br>JUN 03<br>MAY 25 | AUG 25<br>SEP 02<br>SEP 11 | SEP 09<br>SEP 15<br>SEP 28 | SEP 24<br>SEP 28<br>OCT 14 | 126<br>140<br>165          | 103<br>120<br>142 | 81<br>99<br>119   | 58<br>53<br>46                    |  |
| POWERS LAKE 1 N           | 36<br>32<br>28                 | MAY 22<br>MAY 07<br>APR 26 | JUN 19<br>MAY 27<br>MAY 16 | JUL 16<br>JUN 15<br>JUN 06 | AUG 12<br>AUG 22<br>SEP 07 | AUG 28<br>SEP 08<br>SEP 21 | SEP 12<br>SEP 26<br>OCT 05 | 100<br>130<br>151          | 69<br>104<br>127  | 38<br>78<br>103   | 64<br>57<br>51                    |  |
| RICHARDTON ABBEY          | 36<br>32<br>28                 | MAY 09<br>APR 27<br>APR 19 | MAY 21<br>MAY 13<br>MAY 03 | JUN 02<br>MAY 30<br>MAY 17 | AUG 30<br>SEP 09<br>SEP 17 | SEP 15<br>SEP 25<br>OCT 03 | OCT 01<br>OCT 10<br>OCT 19 | 134<br>157<br>171          | 116<br>134<br>153 | 99<br>110<br>134  | 56<br>50<br>43                    |  |
| RIVERDALE                 | 36<br>32<br>28                 | MAY 08<br>MAY 04<br>APR 18 | MAY 20<br>MAY 16<br>MAY 04 | JUN 02<br>MAY 29<br>MAY 20 | SEP 02<br>SEP 08<br>SEP 18 | SEP 15<br>SEP 23<br>OCT 03 | SEP 28<br>OCT 08<br>OCT 18 | 135<br>147<br>174          | 117<br>129<br>151 | 99<br>111<br>128  | 57<br>53<br>46                    |  |
| ROLLA                     | 36<br>32<br>28                 | MAY 17<br>MAY 05<br>APR 25 | JUN 02<br>MAY 19<br>MAY 07 | JUN 19<br>JUN 03<br>MAY 20 | AUG 27<br>SEP 07<br>SEP 15 | SEP 10<br>SEP 21<br>OCT 02 | SEP 25<br>OCT 05<br>OCT 19 | 124<br>146<br>169          | 99<br>124<br>147  | 75<br>101<br>125  | 60<br>54<br>47                    |  |
| RUGBY                     | 36<br>32<br>28                 | MAY 08<br>APR 28<br>APR 19 | MAY 23<br>MAY 14<br>MAY 04 | JUN 07<br>MAY 30<br>MAY 18 | AUG 29<br>SEP 06<br>SEP 15 | SEP 12<br>SEP 21<br>OCT 02 | SEP 26<br>OCT 06<br>OCT 20 | 133<br>152<br>175          | 111<br>129<br>151 | 89<br>106<br>127  | 56<br>51<br>44                    |  |
| SAN HAVEN                 | 36<br>32<br>28                 | MAY 14<br>MAY 07<br>APR 23 | JUN 01<br>MAY 21<br>MAY 05 | JUN 18<br>JUN 05<br>MAY 17 | AUG 27<br>SEP 04<br>SEP 13 | SEP 09<br>SEP 18<br>SEP 29 | SEP 21<br>OCT 02<br>OCT 16 | 117<br>139<br>167          | 99<br>119<br>146  | 81<br>99<br>126   | 59<br>54<br>47                    |  |
| SHARON                    | 36<br>32<br>28                 | MAY 11<br>MAY 05<br>APR 23 | MAY 29<br>MAY 18<br>MAY 06 | JUN 16<br>MAY 30<br>MAY 19 | AUG 23<br>SEP 08<br>SEP 14 | SEP 08<br>SEP 22<br>SEP 30 | SEP 25<br>OCT 05<br>OCT 16 | 124<br>143<br>167          | 102<br>126<br>147 | 79<br>110<br>126  | 58<br>52<br>45                    |  |
| STANLEY 3 NNW             | 36<br>32<br>28                 | MAY 16<br>MAY 03<br>APR 24 | JUN 04<br>MAY 18<br>MAY 09 | JUN 24<br>JUN 02<br>MAY 24 | AUG 18<br>AUG 27<br>SEP 03 | SEP 05<br>SEP 14<br>SEP 21 | SEP 23<br>OCT 02<br>OCT 10 | 113<br>142<br>156          | 92<br>118<br>135  | 71<br>95<br>113   | 62<br>55<br>49                    |  |
| STEELE                    | 36<br>32<br>28                 | MAY 12<br>MAY 02<br>APR 23 | MAY 27<br>MAY 15<br>MAY 07 | JUN 11<br>MAY 28<br>MAY 20 | AUG 18<br>SEP 05<br>SEP 12 | SEP 06<br>SEP 20<br>SEP 27 | SEP 26<br>OCT 05<br>OCT 12 | 128<br>144<br>164          | 101<br>127<br>143 | 74<br>110<br>122  | 58<br>52<br>45                    |  |
| VELVA                     | 36<br>32<br>28                 | MAY 11<br>MAY 04<br>APR 26 | MAY 28<br>MAY 19<br>MAY 10 | JUN 15<br>JUN 02<br>MAY 24 | AUG 21<br>AUG 27<br>SEP 14 | SEP 07<br>SEP 14<br>SEP 27 | SEP 23<br>OCT 02<br>OCT 11 | 123<br>143<br>160          | 100<br>118<br>140 | 78<br>93<br>120   | 58<br>52<br>45                    |  |
| WAHPETON                  | 36<br>32<br>28                 | MAY 09<br>APR 28<br>APR 11 | MAY 20<br>MAY 10<br>APR 28 | MAY 31<br>MAY 23<br>MAY 15 | SEP 06<br>SEP 14<br>SEP 24 | SEP 19<br>SEP 26<br>OCT 10 | OCT 02<br>OCT 08<br>OCT 26 | 140<br>156<br>190          | 121<br>138<br>165 | 102<br>120<br>140 | 53<br>48<br>41                    |  |
| WASHBURN                  | 36<br>32<br>28                 | MAY 06<br>MAY 01<br>APR 22 | MAY 21<br>MAY 15<br>MAY 07 | JUN 05<br>MAY 30<br>MAY 22 | AUG 30<br>SEP 08<br>SEP 14 | SEP 12<br>SEP 24<br>OCT 03 | SEP 26<br>OCT 10<br>OCT 22 | 136<br>152<br>174          | 114<br>131<br>149 | 91<br>110<br>123  | 56<br>50<br>43                    |  |
| WESTHOPE                  | 36<br>32<br>28                 | MAY 13<br>MAY 03<br>APR 24 | JUN 03<br>MAY 19<br>MAY 08 | JUN 24<br>JUN 05<br>MAY 23 | AUG 17<br>AUG 30<br>SEP 09 | SEP 01<br>SEP 14<br>SEP 25 | SEP 16<br>SEP 30<br>OCT 11 | 118<br>139<br>156          | 90<br>117<br>139  | 61<br>95<br>121   | 60<br>54<br>47                    |  |
| WILLOW CITY               | 36<br>32<br>28                 | MAY 15<br>MAY 07<br>APR 27 | JUN 10<br>MAY 24<br>MAY 12 | JUL 07<br>JUN 11<br>MAY 27 | AUG 15<br>AUG 25<br>SEP 08 | AUG 31<br>SEP 09<br>SEP 21 | SEP 17<br>SEP 24<br>OCT 04 | 115<br>130<br>153          | 81<br>107<br>131  | 48<br>83<br>110   | 63<br>57<br>50                    |  |
| WISHEK                    | 36<br>32<br>28                 | MAY 15<br>MAY 01<br>APR 29 | JUN 09<br>MAY 24<br>MAY 17 | JUL 05<br>JUN 17<br>JUN 05 | AUG 09<br>AUG 25<br>SEP 03 | AUG 27<br>SEP 10<br>SEP 21 | SEP 14<br>SEP 26<br>OCT 09 | 112<br>138<br>153          | 78<br>108<br>125  | 44<br>78<br>98    | 62<br>56<br>49                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| OHIO                      |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| AKRON CANTON WSO          | 36<br>32<br>28                | APR 30<br>APR 15<br>APR 06 | MAY 14<br>MAY 03<br>APR 17 | MAY 29<br>MAY 21<br>APR 28 | SEP 26<br>OCT 02<br>OCT 18 | OCT 08<br>OCT 18<br>NOV 01 | OCT 20<br>NOV 04<br>NOV 14 | 163<br>192<br>213       | 146<br>168<br>197 | 128<br>144<br>181 | 43<br>36<br>28                    |  |
| ASHLAND                   | 36<br>32<br>28                | APR 30<br>APR 17<br>APR 09 | MAY 16<br>MAY 04<br>APR 22 | JUN 01<br>MAY 21<br>MAY 05 | SEP 19<br>SEP 30<br>OCT 07 | SEP 30<br>OCT 11<br>OCT 23 | OCT 10<br>OCT 23<br>NOV 07 | 154<br>178<br>204       | 136<br>160<br>183 | 117<br>141<br>162 | 44<br>38<br>29                    |  |
| ASHTABULA                 | 36<br>32<br>28                | APR 30<br>APR 17<br>APR 05 | MAY 17<br>MAY 02<br>APR 15 | JUN 03<br>MAY 17<br>APR 25 | SEP 24<br>OCT 08<br>OCT 24 | OCT 12<br>OCT 25<br>NOV 08 | OCT 30<br>NOV 12<br>NOV 24 | 173<br>200<br>225       | 147<br>176<br>207 | 121<br>152<br>188 | 43<br>35<br>26                    |  |
| ATHENS 5 NW               | 36<br>32<br>28                | MAY 11<br>MAY 01<br>APR 16 | MAY 25<br>MAY 16<br>APR 29 | JUN 08<br>MAY 31<br>MAY 12 | SEP 10<br>SEP 19<br>SEP 26 | SEP 23<br>OCT 01<br>OCT 11 | OCT 06<br>OCT 13<br>OCT 25 | 140<br>158<br>182       | 120<br>137<br>164 | 101<br>117<br>146 | 45<br>38<br>29                    |  |
| BARNESVILLE WATER WKS     | 36<br>32<br>28                | MAY 07<br>APR 26<br>APR 14 | MAY 22<br>MAY 12<br>APR 28 | JUN 06<br>MAY 29<br>MAY 12 | SEP 07<br>SEP 22<br>SEP 27 | SEP 21<br>OCT 03<br>OCT 14 | OCT 05<br>OCT 30           | 142<br>163<br>191       | 121<br>143<br>168 | 101<br>123<br>144 | 48<br>41<br>33                    |  |
| BELLEFONTAINE SEWAGE      | 36<br>32<br>28                | APR 27<br>APR 17<br>APR 02 | MAY 11<br>MAY 03<br>APR 17 | MAY 24<br>MAY 19<br>MAY 02 | SEP 19<br>SEP 26<br>OCT 10 | OCT 01<br>OCT 11<br>OCT 24 | OCT 13<br>OCT 25<br>NOV 08 | 160<br>180<br>208       | 143<br>160<br>189 | 126<br>140<br>171 | 42<br>35<br>27                    |  |
| BOWLING GREEN SWG PL      | 36<br>32<br>28                | APR 28<br>APR 18<br>APR 06 | MAY 12<br>MAY 02<br>APR 18 | MAY 27<br>MAY 16<br>APR 30 | SEP 20<br>SEP 29<br>OCT 09 | OCT 02<br>OCT 13<br>OCT 25 | OCT 14<br>OCT 27<br>NOV 09 | 160<br>184<br>210       | 142<br>163<br>189 | 125<br>143<br>167 | 44<br>37<br>28                    |  |
| BUCKYRUS                  | 36<br>32<br>28                | MAY 01<br>APR 21<br>APR 07 | MAY 14<br>MAY 05<br>APR 22 | MAY 28<br>MAY 19<br>MAY 06 | SEP 13<br>SEP 22<br>OCT 01 | SEP 27<br>OCT 08<br>OCT 19 | OCT 10<br>OCT 24<br>NOV 05 | 151<br>174<br>204       | 135<br>155<br>179 | 118<br>136<br>154 | 46<br>39<br>30                    |  |
| CADIZ                     | 36<br>32<br>28                | APR 26<br>APR 13<br>APR 04 | MAY 11<br>MAY 28<br>APR 17 | MAY 25<br>MAY 14<br>APR 29 | SEP 23<br>OCT 03<br>OCT 14 | OCT 06<br>OCT 15<br>OCT 30 | OCT 18<br>OCT 26<br>NOV 15 | 167<br>187<br>211       | 147<br>169<br>195 | 127<br>151<br>180 | 41<br>34<br>26                    |  |
| CALDWELL 6 NW             | 36<br>32<br>28                | APR 28<br>APR 19<br>APR 07 | MAY 17<br>MAY 06<br>APR 21 | JUN 04<br>MAY 23<br>MAY 04 | SEP 14<br>SEP 22<br>OCT 03 | SEP 28<br>OCT 07<br>OCT 18 | OCT 11<br>OCT 22<br>NOV 02 | 155<br>180<br>202       | 133<br>153<br>180 | 111<br>126<br>158 | 42<br>35<br>27                    |  |
| CAMBRIDGE SEWAGE PLANT    | 36<br>32<br>28                | MAY 03<br>APR 20<br>APR 12 | MAY 19<br>MAY 07<br>APR 24 | JUN 04<br>MAY 23<br>MAY 06 | SEP 15<br>SEP 22<br>OCT 01 | SEP 27<br>OCT 04<br>OCT 17 | OCT 09<br>OCT 16<br>NOV 03 | 150<br>170<br>195       | 130<br>150<br>176 | 111<br>129<br>157 | 43<br>36<br>27                    |  |
| CANFIELD 1 S              | 36<br>32<br>28                | MAY 09<br>APR 28<br>APR 13 | MAY 30<br>MAY 14<br>MAY 29 | JUN 20<br>MAY 30<br>MAY 15 | SEP 05<br>SEP 19<br>OCT 01 | SEP 18<br>OCT 01<br>OCT 16 | OCT 02<br>OCT 13<br>NOV 01 | 133<br>160<br>193       | 110<br>139<br>170 | 88<br>118<br>146  | 47<br>39<br>31                    |  |
| CHARDON                   | 36<br>32<br>28                | MAY 02<br>APR 25<br>APR 10 | MAY 22<br>MAY 11<br>APR 24 | JUN 10<br>MAY 27<br>MAY 08 | SEP 16<br>SEP 24<br>OCT 11 | OCT 01<br>OCT 14<br>OCT 28 | OCT 15<br>NOV 02<br>NOV 15 | 157<br>181<br>209       | 131<br>155<br>187 | 106<br>128<br>164 | 47<br>40<br>31                    |  |
| CHARLES MILL DAM          | 36<br>32<br>28                | MAY 14<br>APR 29<br>APR 15 | MAY 26<br>MAY 16<br>APR 30 | JUN 08<br>JUN 01<br>MAY 15 | SEP 08<br>SEP 19<br>SEP 27 | SEP 20<br>OCT 12<br>OCT 12 | OCT 02<br>OCT 12<br>OCT 27 | 132<br>153<br>188       | 116<br>137<br>164 | 100<br>121<br>140 | 49<br>42<br>33                    |  |
| CHILO MELDAHL DAM         | 36<br>32<br>28                | APR 19<br>APR 09<br>MAR 27 | MAY 05<br>MAY 07<br>APR 11 | MAY 20<br>MAY 07<br>APR 25 | SEP 27<br>OCT 06<br>OCT 15 | OCT 10<br>OCT 19<br>OCT 31 | OCT 22<br>NOV 02<br>NOV 17 | 175<br>198<br>227       | 157<br>179<br>203 | 140<br>159<br>179 | 40<br>33<br>25                    |  |
| CHIPPEWA LAKE             | 36<br>32<br>28                | MAY 10<br>APR 25<br>APR 10 | MAY 24<br>MAY 11<br>APR 28 | JUN 07<br>MAY 27<br>MAY 16 | SEP 11<br>SEP 22<br>OCT 03 | SEP 22<br>OCT 04<br>OCT 19 | OCT 03<br>OCT 17<br>NOV 03 | 137<br>164<br>196       | 120<br>145<br>173 | 103<br>127<br>149 | 46<br>38<br>29                    |  |
| CINCINNATI ABBE WSMO      | 36<br>32<br>28                | APR 13<br>MAR 30<br>MAR 18 | APR 27<br>APR 14<br>APR 02 | MAY 12<br>APR 29<br>APR 18 | OCT 01<br>OCT 13<br>OCT 20 | OCT 15<br>OCT 27<br>NOV 05 | OCT 29<br>NOV 10<br>NOV 20 | 192<br>216<br>239       | 170<br>195<br>216 | 149<br>174<br>192 | 35<br>27<br>19                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|-----|-----|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |     |     |                                   |  |
|                           |                               | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50  | 90  |                                   |  |
| <b>OHIO</b>               |                               |                            |        |        |                            |        |        |                            |     |     |                                   |  |
| CIRCLEVILLE               | 36                            | APR 25                     | MAY 11 | MAY 26 | SEP 22                     | OCT 03 | OCT 13 | 162                        | 145 | 127 | 39                                |  |
|                           | 32                            | APR 15                     | APR 30 | MAY 15 | SEP 28                     | OCT 11 | OCT 25 | 184                        | 164 | 143 | 31                                |  |
|                           | 28                            | MAR 29                     | APR 10 | APR 22 | OCT 12                     | OCT 27 | NOV 12 | 220                        | 199 | 179 | 23                                |  |
| COLUMBUS SULLIVANT AVE    | 36                            | APR 20                     | MAY 07 | MAY 23 | SEP 23                     | OCT 04 | OCT 15 | 171                        | 150 | 128 | 41                                |  |
|                           | 32                            | APR 13                     | APR 26 | MAY 09 | OCT 03                     | OCT 17 | OCT 31 | 190                        | 173 | 156 | 34                                |  |
|                           | 28                            | MAR 30                     | APR 13 | APR 27 | OCT 14                     | OCT 29 | NOV 13 | 217                        | 198 | 179 | 25                                |  |
| COLUMBUS VALLEY CROSS     | 36                            | APR 23                     | MAY 07 | MAY 20 | SEP 21                     | OCT 03 | OCT 15 | 167                        | 149 | 131 | 40                                |  |
|                           | 32                            | APR 16                     | APR 28 | MAY 11 | SEP 27                     | OCT 13 | OCT 28 | 186                        | 166 | 147 | 33                                |  |
|                           | 28                            | MAR 31                     | APR 13 | APR 26 | OCT 15                     | OCT 26 | NOV 07 | 212                        | 196 | 179 | 24                                |  |
| COSHOCOTON SEWAGE PL      | 36                            | MAY 02                     | MAY 16 | MAY 31 | SEP 19                     | SEP 30 | OCT 10 | 153                        | 136 | 118 | 45                                |  |
|                           | 32                            | APR 18                     | MAY 06 | MAY 23 | SEP 26                     | OCT 08 | OCT 21 | 178                        | 155 | 131 | 37                                |  |
|                           | 28                            | APR 10                     | APR 24 | MAY 07 | OCT 06                     | OCT 22 | NOV 07 | 201                        | 181 | 160 | 29                                |  |
| DAYTON                    | 36                            | APR 10                     | APR 25 | MAY 10 | OCT 02                     | OCT 15 | OCT 29 | 192                        | 173 | 153 | 36                                |  |
|                           | 32                            | MAR 31                     | APR 13 | APR 27 | OCT 16                     | OCT 30 | NOV 13 | 219                        | 199 | 179 | 28                                |  |
|                           | 28                            | MAR 21                     | APR 02 | APR 14 | OCT 26                     | NOV 10 | NOV 25 | 242                        | 221 | 201 | 20                                |  |
| DAYTON WSO                | 36                            | APR 20                     | MAY 04 | MAY 19 | SEP 26                     | OCT 09 | OCT 22 | 174                        | 157 | 139 | 40                                |  |
|                           | 32                            | APR 09                     | APR 23 | MAY 07 | OCT 05                     | OCT 20 | NOV 04 | 202                        | 179 | 157 | 32                                |  |
|                           | 28                            | MAR 29                     | APR 11 | APR 24 | OCT 16                     | OCT 30 | NOV 13 | 221                        | 202 | 182 | 24                                |  |
| DEFIANCE                  | 36                            | APR 28                     | MAY 12 | MAY 26 | SEP 14                     | SEP 28 | OCT 11 | 160                        | 138 | 116 | 48                                |  |
|                           | 32                            | APR 19                     | MAY 04 | MAY 18 | SEP 24                     | OCT 09 | OCT 23 | 175                        | 158 | 140 | 41                                |  |
|                           | 28                            | APR 05                     | APR 20 | MAY 05 | OCT 09                     | OCT 24 | NOV 07 | 207                        | 186 | 164 | 33                                |  |
| DELAWARE                  | 36                            | APR 29                     | MAY 14 | MAY 29 | SEP 18                     | SEP 29 | OCT 09 | 154                        | 137 | 119 | 45                                |  |
|                           | 32                            | APR 18                     | MAY 03 | MAY 18 | SEP 25                     | OCT 06 | OCT 18 | 177                        | 156 | 135 | 38                                |  |
|                           | 28                            | APR 06                     | APR 20 | MAY 04 | OCT 10                     | OCT 23 | NOV 05 | 203                        | 185 | 167 | 29                                |  |
| ELYRIA 3 E                | 36                            | MAY 01                     | MAY 17 | JUN 02 | SEP 17                     | OCT 02 | OCT 17 | 161                        | 137 | 114 | 44                                |  |
|                           | 32                            | APR 19                     | MAY 04 | MAY 18 | OCT 05                     | OCT 18 | OCT 31 | 186                        | 167 | 147 | 36                                |  |
|                           | 28                            | APR 08                     | APR 21 | MAY 04 | OCT 18                     | OCT 31 | NOV 13 | 210                        | 192 | 174 | 27                                |  |
| FINDLAY FAA AP            | 36                            | APR 24                     | MAY 08 | MAY 22 | SEP 22                     | OCT 03 | OCT 15 | 165                        | 148 | 130 | 43                                |  |
|                           | 32                            | APR 14                     | APR 26 | MAY 09 | SEP 30                     | OCT 14 | OCT 28 | 188                        | 170 | 152 | 35                                |  |
|                           | 28                            | MAR 29                     | APR 11 | APR 24 | OCT 12                     | OCT 28 | NOV 13 | 220                        | 199 | 178 | 27                                |  |
| FINDLAY SEWAGE PLANT      | 36                            | APR 26                     | MAY 10 | MAY 24 | SEP 17                     | SEP 29 | OCT 11 | 156                        | 141 | 126 | 45                                |  |
|                           | 32                            | APR 18                     | MAY 02 | MAY 16 | SEP 24                     | OCT 08 | OCT 21 | 178                        | 158 | 137 | 38                                |  |
|                           | 28                            | APR 05                     | APR 18 | MAY 02 | OCT 09                     | OCT 24 | NOV 08 | 208                        | 188 | 167 | 30                                |  |
| FREDERICKTOWN             | 36                            | MAY 06                     | MAY 19 | JUN 02 | SEP 09                     | SEP 22 | OCT 04 | 144                        | 125 | 105 | 48                                |  |
|                           | 32                            | APR 24                     | MAY 07 | MAY 19 | SEP 16                     | SEP 30 | OCT 14 | 165                        | 146 | 127 | 41                                |  |
|                           | 28                            | APR 12                     | APR 25 | MAY 08 | SEP 27                     | OCT 12 | OCT 27 | 190                        | 169 | 149 | 33                                |  |
| GALLIPOLIS 5 W            | 36                            | APR 19                     | MAY 09 | MAY 28 | SEP 20                     | OCT 02 | OCT 14 | 169                        | 145 | 122 | 38                                |  |
|                           | 32                            | APR 17                     | APR 30 | MAY 12 | SEP 29                     | OCT 10 | OCT 22 | 180                        | 163 | 146 | 31                                |  |
|                           | 28                            | MAR 31                     | APR 17 | MAY 04 | OCT 09                     | OCT 23 | NOV 06 | 211                        | 188 | 166 | 23                                |  |
| GREENVILLE WATER PLT      | 36                            | APR 29                     | MAY 11 | MAY 23 | SEP 15                     | SEP 25 | OCT 06 | 154                        | 136 | 119 | 46                                |  |
|                           | 32                            | APR 18                     | MAY 03 | MAY 18 | SEP 23                     | OCT 04 | OCT 15 | 172                        | 153 | 134 | 40                                |  |
|                           | 28                            | APR 10                     | APR 23 | MAY 06 | OCT 04                     | OCT 16 | OCT 28 | 192                        | 175 | 158 | 31                                |  |
| HAMILTON-FAIRFIELD        | 36                            | APR 23                     | MAY 07 | MAY 20 | SEP 21                     | OCT 03 | OCT 15 | 165                        | 148 | 132 | 39                                |  |
|                           | 32                            | APR 14                     | APR 28 | MAY 11 | SEP 28                     | OCT 11 | OCT 24 | 183                        | 166 | 148 | 32                                |  |
|                           | 28                            | APR 03                     | APR 14 | MAY 25 | OCT 13                     | OCT 26 | NOV 08 | 210                        | 194 | 179 | 23                                |  |
| HILLSBORO                 | 36                            | APR 22                     | MAY 06 | MAY 21 | SEP 22                     | OCT 06 | OCT 21 | 173                        | 152 | 131 | 39                                |  |
|                           | 32                            | APR 09                     | APR 23 | MAY 07 | OCT 05                     | OCT 20 | NOV 04 | 199                        | 180 | 160 | 32                                |  |
|                           | 28                            | MAR 28                     | APR 10 | APR 22 | OCT 12                     | OCT 30 | NOV 16 | 227                        | 202 | 178 | 24                                |  |
| HIRAM                     | 36                            | APR 26                     | MAY 14 | MAY 31 | SEP 22                     | OCT 06 | OCT 20 | 165                        | 145 | 124 | 43                                |  |
|                           | 32                            | APR 15                     | APR 30 | MAY 14 | OCT 01                     | OCT 18 | NOV 04 | 195                        | 171 | 147 | 37                                |  |
|                           | 28                            | APR 05                     | APR 17 | APR 29 | OCT 18                     | OCT 31 | NOV 12 | 211                        | 196 | 180 | 29                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| OHIO                      |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| IRONTON                   | 36<br>32<br>28                | APR 19<br>APR 06<br>MAR 21 | MAY 04<br>APR 21<br>APR 05 | MAY 19<br>MAY 06<br>APR 21 | OCT 01<br>OCT 09<br>OCT 16 | OCT 13<br>OCT 23<br>NOV 01 | OCT 24<br>NOV 05<br>NOV 17 | 179<br>202<br>232       | 161<br>184<br>209 | 142<br>166<br>186 | 35<br>28<br>19                    |  |
| IRWIN                     | 36<br>32<br>28                | APR 27<br>APR 18<br>APR 11 | MAY 13<br>MAY 03<br>APR 24 | MAY 29<br>MAY 19<br>MAY 07 | SEP 11<br>SEP 19<br>SEP 27 | SEP 22<br>OCT 02<br>OCT 13 | OCT 04<br>OCT 15<br>OCT 28 | 150<br>171<br>192       | 131<br>151<br>170 | 113<br>131<br>149 | 45<br>37<br>28                    |  |
| JACKSON 2 NW              | 36<br>32<br>28                | MAY 03<br>APR 19<br>APR 14 | MAY 18<br>MAY 08<br>APR 26 | JUN 02<br>MAY 26<br>MAY 09 | SEP 10<br>SEP 18<br>SEP 28 | SEP 24<br>OCT 02<br>OCT 12 | OCT 09<br>OCT 16<br>OCT 27 | 149<br>169<br>186       | 129<br>146<br>168 | 109<br>124<br>150 | 45<br>38<br>30                    |  |
| KENTON                    | 36<br>32<br>28                | APR 30<br>APR 20<br>APR 11 | MAY 16<br>MAY 04<br>APR 23 | JUN 01<br>MAY 18<br>MAY 06 | SEP 16<br>SEP 21<br>OCT 04 | SEP 28<br>OCT 07<br>OCT 17 | OCT 10<br>OCT 23<br>OCT 31 | 154<br>174<br>195       | 135<br>156<br>177 | 116<br>137<br>158 | 45<br>38<br>29                    |  |
| LANCASTER 2 NW            | 36<br>32<br>28                | APR 29<br>APR 20<br>APR 05 | MAY 15<br>MAY 03<br>APR 20 | MAY 30<br>MAY 16<br>MAY 05 | SEP 12<br>SEP 24<br>OCT 06 | SEP 26<br>OCT 06<br>OCT 21 | OCT 09<br>OCT 18<br>NOV 05 | 153<br>176<br>207       | 133<br>156<br>183 | 114<br>136<br>159 | 44<br>36<br>28                    |  |
| LIMA SEWAGE PLANT         | 36<br>32<br>28                | APR 25<br>APR 20<br>APR 05 | MAY 10<br>MAY 04<br>APR 18 | MAY 24<br>MAY 19<br>MAY 02 | SEP 15<br>SEP 24<br>OCT 11 | SEP 30<br>OCT 10<br>OCT 25 | OCT 15<br>OCT 26<br>NOV 08 | 165<br>176<br>210       | 142<br>158<br>189 | 120<br>140<br>167 | 42<br>35<br>26                    |  |
| LONDON WATER WORKS        | 36<br>32<br>28                | APR 29<br>APR 17<br>APR 03 | MAY 16<br>MAY 02<br>APR 19 | JUN 02<br>MAY 17<br>MAY 05 | SEP 18<br>SEP 25<br>OCT 07 | SEP 29<br>OCT 07<br>OCT 21 | OCT 10<br>OCT 20<br>NOV 04 | 156<br>180<br>205       | 135<br>158<br>184 | 115<br>135<br>162 | 42<br>35<br>26                    |  |
| MANSFIELD 6 W             | 36<br>32<br>28                | MAY 12<br>APR 30<br>APR 19 | MAY 31<br>MAY 15<br>MAY 04 | JUN 18<br>MAY 30<br>MAY 19 | AUG 30<br>SEP 14<br>SEP 23 | SEP 16<br>SEP 27<br>OCT 08 | OCT 03<br>OCT 09<br>OCT 22 | 131<br>155<br>177       | 108<br>134<br>156 | 85<br>112<br>134  | 47<br>40<br>32                    |  |
| MARYSVILLE                | 36<br>32<br>28                | APR 29<br>APR 17<br>APR 01 | MAY 15<br>MAY 02<br>APR 15 | MAY 30<br>MAY 17<br>APR 29 | SEP 15<br>SEP 25<br>OCT 08 | SEP 27<br>OCT 09<br>OCT 23 | OCT 10<br>OCT 24<br>NOV 06 | 155<br>184<br>210       | 135<br>160<br>190 | 115<br>135<br>170 | 45<br>38<br>29                    |  |
| MC CONNELSVILLE LOCK 7    | 36<br>32<br>28                | APR 26<br>APR 19<br>APR 08 | MAY 14<br>MAY 05<br>APR 22 | JUN 02<br>MAY 21<br>MAY 07 | SEP 21<br>SEP 29<br>OCT 11 | OCT 01<br>OCT 11<br>OCT 24 | OCT 12<br>OCT 20<br>NOV 05 | 160<br>181<br>203       | 139<br>159<br>183 | 119<br>137<br>163 | 45<br>38<br>30                    |  |
| MILFORD                   | 36<br>32<br>28                | APR 24<br>APR 17<br>MAR 30 | MAY 08<br>MAY 13<br>APR 16 | MAY 22<br>MAY 13<br>MAY 04 | SEP 22<br>SEP 27<br>OCT 10 | OCT 02<br>OCT 11<br>OCT 24 | OCT 13<br>OCT 24<br>NOV 07 | 164<br>181<br>216       | 146<br>163<br>190 | 128<br>144<br>165 | 42<br>34<br>26                    |  |
| MILLERSBURG 1 W           | 36<br>32<br>28                | MAY 03<br>APR 23<br>APR 09 | MAY 17<br>MAY 08<br>APR 25 | JUN 01<br>MAY 23<br>MAY 10 | SEP 17<br>SEP 24<br>OCT 06 | SEP 27<br>OCT 07<br>OCT 21 | OCT 07<br>OCT 20<br>NOV 05 | 151<br>168<br>197       | 132<br>151<br>179 | 114<br>135<br>160 | 43<br>36<br>27                    |  |
| HILLPORT 2 NW             | 36<br>32<br>28                | MAY 16<br>MAY 02<br>APR 21 | JUN 01<br>MAY 19<br>MAY 06 | JUN 18<br>JUN 04<br>MAY 22 | AUG 31<br>SEP 13<br>SEP 25 | SEP 13<br>SEP 25<br>OCT 08 | SEP 25<br>OCT 06<br>OCT 20 | 119<br>149<br>175       | 103<br>128<br>154 | 86<br>108<br>133  | 48<br>41<br>32                    |  |
| MINERAL RIDGE WTR WKS     | 36<br>32<br>28                | MAY 11<br>APR 25<br>APR 12 | MAY 24<br>MAY 12<br>APR 29 | JUN 06<br>MAY 29<br>MAY 15 | SEP 13<br>SEP 28<br>OCT 05 | SEP 26<br>OCT 12<br>OCT 20 | OCT 08<br>OCT 26<br>NOV 04 | 141<br>176<br>194       | 124<br>153<br>173 | 107<br>129<br>153 | 45<br>37<br>28                    |  |
| MONTPELIER 1 WSW          | 36<br>32<br>28                | APR 28<br>APR 21<br>APR 04 | MAY 14<br>MAY 05<br>APR 20 | MAY 30<br>MAY 19<br>MAY 05 | SEP 16<br>SEP 20<br>OCT 03 | SEP 26<br>OCT 06<br>OCT 19 | OCT 06<br>OCT 22<br>NOV 04 | 151<br>171<br>206       | 135<br>153<br>182 | 118<br>136<br>157 | 47<br>40<br>31                    |  |
| NAPOLEON WATER WORKS      | 36<br>32<br>28                | APR 28<br>APR 16<br>APR 03 | MAY 11<br>MAY 01<br>APR 15 | MAY 23<br>MAY 17<br>APR 27 | SEP 19<br>SEP 30<br>OCT 10 | OCT 02<br>OCT 15<br>OCT 27 | OCT 16<br>OCT 30<br>NOV 12 | 162<br>186<br>216       | 144<br>166<br>194 | 125<br>145<br>172 | 44<br>37<br>28                    |  |
| NEWARK WATER WORKS        | 36<br>32<br>28                | APR 29<br>APR 18<br>APR 05 | MAY 15<br>MAY 03<br>APR 18 | JUN 01<br>MAY 19<br>MAY 01 | SEP 17<br>SEP 23<br>OCT 04 | SEP 28<br>OCT 08<br>OCT 19 | OCT 08<br>OCT 23<br>NOV 04 | 154<br>179<br>203       | 135<br>157<br>183 | 116<br>134<br>164 | 43<br>35<br>27                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| OHIO                      |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| NEW LEXINGTON 2 NW        | 36<br>32<br>28                | MAY 02<br>APR 22<br>APR 16 | MAY 18<br>MAY 07<br>APR 27 | JUN 03<br>MAY 22<br>MAY 09 | SEP 11<br>SEP 21<br>OCT 02 | SEP 25<br>OCT 04<br>OCT 16 | OCT 08<br>OCT 16<br>OCT 30 | 146<br>168<br>190       | 129<br>149<br>171 | 111<br>130<br>152 | 45<br>38<br>30                    |  |
| NORWALK SEWAGE PLANT      | 36<br>32<br>28                | MAY 07<br>APR 20<br>APR 11 | MAY 19<br>MAY 03<br>APR 23 | JUN 01<br>MAY 17<br>MAY 05 | SEP 14<br>SEP 28<br>OCT 11 | SEP 28<br>OCT 13<br>OCT 24 | OCT 12<br>OCT 27<br>NOV 07 | 147<br>182<br>200       | 131<br>162<br>184 | 115<br>142<br>168 | 45<br>37<br>29                    |  |
| OBERLIN                   | 36<br>32<br>28                | MAY 07<br>APR 27<br>APR 11 | MAY 23<br>MAY 13<br>APR 28 | JUN 08<br>MAY 30<br>MAY 16 | SEP 14<br>SEP 22<br>OCT 04 | SEP 26<br>OCT 08<br>OCT 20 | OCT 07<br>OCT 24<br>NOV 05 | 144<br>170<br>199       | 125<br>147<br>174 | 105<br>123<br>149 | 47<br>40<br>32                    |  |
| PAINESVILLE 4 NW          | 36<br>32<br>28                | APR 21<br>APR 11<br>MAR 27 | MAY 06<br>APR 26<br>APR 11 | MAY 21<br>MAY 11<br>APR 26 | OCT 02<br>OCT 18<br>OCT 30 | OCT 18<br>OCT 31<br>NOV 12 | NOV 04<br>NOV 14<br>NOV 25 | 186<br>207<br>232       | 165<br>187<br>214 | 143<br>168<br>196 | 41<br>33<br>24                    |  |
| PANDORA 2 NE              | 36<br>32<br>28                | APR 29<br>APR 21<br>APR 04 | MAY 12<br>MAY 05<br>APR 18 | MAY 25<br>MAY 19<br>MAY 02 | SEP 11<br>SEP 20<br>OCT 05 | SEP 25<br>OCT 05<br>OCT 19 | OCT 09<br>OCT 19<br>NOV 02 | 156<br>171<br>205       | 135<br>152<br>183 | 115<br>132<br>161 | 44<br>37<br>28                    |  |
| PAULDING                  | 36<br>32<br>28                | APR 30<br>APR 20<br>APR 08 | MAY 15<br>MAY 06<br>APR 24 | MAY 30<br>MAY 21<br>MAY 10 | SEP 13<br>SEP 22<br>OCT 02 | SEP 26<br>OCT 06<br>OCT 19 | OCT 08<br>OCT 19<br>NOV 04 | 153<br>171<br>201       | 133<br>152<br>177 | 113<br>133<br>152 | 47<br>41<br>32                    |  |
| PEEBLES                   | 36<br>32<br>28                | APR 26<br>APR 17<br>MAR 31 | MAY 13<br>MAY 01<br>APR 14 | MAY 29<br>MAY 16<br>APR 27 | SEP 20<br>SEP 27<br>OCT 06 | OCT 02<br>OCT 10<br>OCT 22 | OCT 14<br>OCT 23<br>NOV 08 | 163<br>180<br>212       | 142<br>161<br>191 | 121<br>141<br>170 | 39<br>31<br>23                    |  |
| PHILO 3 SW                | 36<br>32<br>28                | APR 25<br>APR 15<br>MAR 31 | MAY 13<br>MAY 29<br>APR 15 | MAY 30<br>MAY 12<br>APR 29 | SEP 20<br>SEP 27<br>OCT 09 | OCT 01<br>OCT 11<br>OCT 25 | OCT 12<br>OCT 26<br>NOV 09 | 160<br>185<br>214       | 140<br>165<br>192 | 120<br>145<br>170 | 40<br>33<br>24                    |  |
| PLYMOUTH                  | 36<br>32<br>28                | MAY 03<br>APR 22<br>APR 09 | MAY 20<br>MAY 06<br>APR 23 | JUN 06<br>MAY 21<br>MAY 08 | SEP 15<br>SEP 24<br>OCT 07 | SEP 27<br>OCT 10<br>OCT 23 | OCT 08<br>OCT 25<br>NOV 08 | 150<br>176<br>205       | 129<br>156<br>182 | 108<br>136<br>159 | 45<br>38<br>30                    |  |
| PORTSMOUTH                | 36<br>32<br>28                | APR 17<br>APR 01<br>MAR 21 | MAY 01<br>APR 14<br>APR 02 | MAY 16<br>APR 26<br>APR 14 | OCT 02<br>OCT 10<br>OCT 22 | OCT 14<br>OCT 24<br>NOV 05 | OCT 27<br>NOV 06<br>NOV 19 | 184<br>211<br>236       | 165<br>192<br>217 | 147<br>173<br>197 | 35<br>27<br>19                    |  |
| PUT IN BAY PERRY MON      | 36<br>32<br>28                | APR 14<br>APR 04<br>MAR 21 | APR 25<br>APR 14<br>APR 01 | MAY 06<br>APR 24<br>APR 12 | OCT 13<br>OCT 21<br>NOV 05 | OCT 25<br>NOV 04<br>NOV 20 | NOV 06<br>NOV 18<br>DEC 05 | 198<br>220<br>250       | 183<br>203<br>232 | 167<br>187<br>214 | 39<br>32<br>23                    |  |
| SANDUSKY                  | 36<br>32<br>28                | APR 14<br>APR 04<br>MAR 20 | APR 27<br>APR 16<br>MAR 31 | MAY 10<br>APR 29<br>APR 12 | OCT 02<br>OCT 14<br>OCT 22 | OCT 17<br>OCT 27<br>NOV 07 | NOV 01<br>NOV 10<br>NOV 23 | 191<br>212<br>241       | 172<br>193<br>220 | 154<br>175<br>199 | 40<br>32<br>24                    |  |
| SENECAVILLE DAM           | 36<br>32<br>28                | MAY 04<br>APR 23<br>APR 12 | MAY 20<br>MAY 09<br>APR 26 | JUN 06<br>MAY 25<br>MAY 10 | SEP 08<br>SEP 14<br>SEP 28 | SEP 23<br>OCT 03<br>OCT 15 | OCT 08<br>OCT 21<br>NOV 01 | 149<br>172<br>194       | 125<br>146<br>171 | 101<br>120<br>148 | 45<br>38<br>30                    |  |
| STEUBENVILLE WATER WKS    | 36<br>32<br>28                | APR 25<br>APR 15<br>APR 03 | MAY 11<br>APR 30<br>APR 16 | MAY 28<br>MAY 16<br>APR 29 | SEP 22<br>OCT 07<br>OCT 19 | OCT 07<br>OCT 21<br>NOV 02 | OCT 21<br>NOV 03<br>NOV 17 | 171<br>192<br>217       | 148<br>173<br>200 | 125<br>154<br>182 | 41<br>34<br>25                    |  |
| TIFFIN                    | 36<br>32<br>28                | APR 27<br>APR 17<br>APR 03 | MAY 10<br>APR 28<br>APR 15 | MAY 22<br>MAY 10<br>APR 28 | SEP 21<br>OCT 02<br>OCT 12 | OCT 02<br>OCT 16<br>OCT 27 | OCT 14<br>OCT 31<br>NOV 11 | 161<br>188<br>210       | 145<br>170<br>193 | 128<br>152<br>177 | 42<br>34<br>25                    |  |
| UPPER SANDUSKY            | 36<br>32<br>28                | APR 28<br>APR 16<br>APR 04 | MAY 12<br>MAY 01<br>APR 17 | MAY 25<br>MAY 17<br>APR 30 | SEP 18<br>SEP 24<br>OCT 10 | SEP 30<br>OCT 10<br>OCT 26 | OCT 12<br>OCT 25<br>NOV 11 | 157<br>182<br>212       | 141<br>160<br>191 | 124<br>139<br>170 | 42<br>35<br>26                    |  |
| URBANA SEWAGE PLANT       | 36<br>32<br>28                | APR 26<br>APR 18<br>APR 04 | MAY 14<br>MAY 03<br>APR 17 | MAY 31<br>MAY 18<br>MAY 01 | SEP 11<br>SEP 17<br>OCT 01 | SEP 26<br>OCT 06<br>OCT 16 | OCT 11<br>OCT 24<br>OCT 31 | 159<br>176<br>202       | 134<br>155<br>181 | 109<br>134<br>160 | 45<br>38<br>29                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| OHIO                      |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| VAN WERT                  | 36                            | APR 27                  | MAY 10 | MAY 23 | SEP 19                  | SEP 30 | OCT 11 | 158                     | 142 | 127 | 43                                |  |
|                           | 32                            | APR 21                  | MAY 05 | MAY 18 | SEP 27                  | OCT 10 | OCT 24 | 176                     | 158 | 140 | 37                                |  |
|                           | 28                            | APR 05                  | APR 18 | MAY 02 | OCT 09                  | OCT 25 | NOV 09 | 210                     | 189 | 167 | 28                                |  |
| WARREN 3 S                | 36                            | MAY 11                  | MAY 27 | JUN 12 | SEP 07                  | SEP 20 | OCT 04 | 136                     | 116 | 95  | 47                                |  |
|                           | 32                            | APR 28                  | MAY 14 | MAY 30 | SEP 24                  | OCT 05 | OCT 16 | 163                     | 143 | 123 | 39                                |  |
|                           | 28                            | APR 14                  | MAY 03 | MAY 22 | OCT 02                  | OCT 20 | NOV 06 | 195                     | 169 | 144 | 30                                |  |
| WASHINGTON COURT HOUSE    | 36                            | APR 22                  | MAY 06 | MAY 20 | SEP 21                  | OCT 03 | OCT 15 | 167                     | 149 | 131 | 40                                |  |
|                           | 32                            | APR 11                  | APR 26 | MAY 10 | OCT 05                  | OCT 18 | OCT 31 | 192                     | 174 | 157 | 33                                |  |
|                           | 28                            | MAR 29                  | APR 09 | APR 21 | OCT 17                  | OCT 30 | NOV 13 | 221                     | 203 | 185 | 24                                |  |
| WAUSEON WASTE WTR PLT     | 36                            | MAY 01                  | MAY 14 | MAY 27 | SEP 13                  | SEP 25 | OCT 06 | 150                     | 133 | 116 | 48                                |  |
|                           | 32                            | APR 23                  | MAY 06 | MAY 20 | SEP 23                  | OCT 05 | OCT 17 | 166                     | 151 | 135 | 41                                |  |
|                           | 28                            | APR 10                  | APR 22 | MAY 04 | OCT 02                  | OCT 17 | NOV 02 | 197                     | 177 | 157 | 32                                |  |
| WAVERLY                   | 36                            | APR 29                  | MAY 14 | MAY 30 | SEP 18                  | SEP 30 | OCT 13 | 159                     | 138 | 118 | 41                                |  |
|                           | 32                            | APR 18                  | MAY 05 | MAY 22 | SEP 28                  | OCT 08 | OCT 19 | 174                     | 156 | 138 | 34                                |  |
|                           | 28                            | APR 05                  | APR 20 | MAY 05 | OCT 08                  | OCT 23 | NOV 06 | 205                     | 185 | 165 | 26                                |  |
| WILMINGTON                | 36                            | APR 25                  | MAY 09 | MAY 22 | SEP 19                  | SEP 30 | OCT 11 | 161                     | 144 | 127 | 41                                |  |
|                           | 32                            | APR 16                  | MAY 02 | MAY 18 | SEP 28                  | OCT 12 | OCT 27 | 184                     | 163 | 142 | 34                                |  |
|                           | 28                            | MAR 29                  | APR 15 | MAY 02 | OCT 07                  | OCT 22 | NOV 06 | 214                     | 189 | 164 | 26                                |  |
| WOOSTER EXP STATION       | 36                            | MAY 05                  | MAY 20 | JUN 04 | SEP 14                  | SEP 24 | OCT 04 | 143                     | 127 | 110 | 46                                |  |
|                           | 32                            | APR 22                  | MAY 08 | MAY 25 | SEP 24                  | OCT 06 | OCT 17 | 169                     | 149 | 129 | 38                                |  |
|                           | 28                            | APR 08                  | APR 23 | MAY 08 | OCT 04                  | OCT 19 | NOV 03 | 196                     | 179 | 161 | 30                                |  |
| XENIA 5 SSE               | 36                            | APR 24                  | MAY 08 | MAY 21 | SEP 17                  | SEP 29 | OCT 12 | 163                     | 144 | 125 | 41                                |  |
|                           | 32                            | APR 15                  | APR 29 | MAY 12 | SEP 30                  | OCT 13 | OCT 25 | 185                     | 166 | 148 | 34                                |  |
|                           | 28                            | APR 03                  | APR 16 | APR 30 | OCT 05                  | OCT 19 | NOV 03 | 206                     | 185 | 165 | 26                                |  |
| YOUNGSTOWN WSO            | 36                            | MAY 03                  | MAY 20 | JUN 06 | SEP 17                  | SEP 28 | OCT 10 | 151                     | 131 | 110 | 45                                |  |
|                           | 32                            | APR 19                  | MAY 06 | MAY 24 | SEP 29                  | OCT 14 | OCT 28 | 183                     | 160 | 137 | 37                                |  |
|                           | 28                            | APR 10                  | APR 24 | MAY 07 | OCT 13                  | OCT 29 | NOV 14 | 204                     | 187 | 170 | 29                                |  |
| ZANESVILLE FAA AP         | 36                            | MAY 02                  | MAY 17 | JUN 01 | SEP 12                  | SEP 27 | OCT 11 | 152                     | 132 | 112 | 43                                |  |
|                           | 32                            | APR 22                  | MAY 06 | MAY 21 | SEP 23                  | OCT 06 | OCT 18 | 172                     | 152 | 132 | 36                                |  |
|                           | 28                            | APR 08                  | APR 22 | MAY 06 | OCT 04                  | OCT 20 | NOV 05 | 201                     | 181 | 161 | 27                                |  |
| OKLAHOMA                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| ADA                       | 36                            | MAR 28                  | APR 10 | APR 23 | OCT 14                  | OCT 26 | NOV 08 | 217                     | 199 | 181 | 25                                |  |
|                           | 32                            | MAR 15                  | MAR 30 | APR 13 | OCT 22                  | NOV 06 | NOV 21 | 241                     | 220 | 199 | 18                                |  |
|                           | 28                            | MAR 07                  | MAR 22 | APR 06 | OCT 29                  | NOV 13 | NOV 29 | 257                     | 236 | 214 | 12                                |  |
| ALTUS IRR. RESCH STN      | 36                            | MAR 30                  | APR 12 | APR 25 | OCT 12                  | OCT 23 | NOV 03 | 209                     | 193 | 176 | 29                                |  |
|                           | 32                            | MAR 21                  | APR 03 | APR 15 | OCT 19                  | NOV 04 | NOV 19 | 235                     | 214 | 194 | 22                                |  |
|                           | 28                            | MAR 13                  | MAR 26 | APR 08 | OCT 27                  | NOV 13 | DEC 01 | 256                     | 231 | 207 | 15                                |  |
| ALVA                      | 36                            | APR 04                  | APR 18 | MAY 02 | OCT 08                  | OCT 19 | OCT 31 | 203                     | 183 | 164 | 34                                |  |
|                           | 32                            | MAR 26                  | APR 09 | APR 23 | OCT 15                  | OCT 29 | NOV 11 | 221                     | 201 | 182 | 28                                |  |
|                           | 28                            | MAR 16                  | MAR 31 | APR 14 | OCT 24                  | NOV 08 | NOV 22 | 242                     | 221 | 201 | 20                                |  |
| ANADARKO                  | 36                            | APR 05                  | APR 20 | MAY 04 | OCT 04                  | OCT 16 | OCT 28 | 198                     | 179 | 159 | 31                                |  |
|                           | 32                            | MAR 26                  | APR 10 | APR 26 | OCT 13                  | OCT 26 | NOV 07 | 217                     | 197 | 178 | 24                                |  |
|                           | 28                            | MAR 14                  | MAR 29 | APR 14 | OCT 18                  | NOV 03 | NOV 18 | 242                     | 217 | 193 | 18                                |  |
| ANTLERS 2 ENE             | 36                            | MAR 30                  | APR 14 | APR 29 | OCT 07                  | OCT 20 | NOV 01 | 205                     | 188 | 170 | 27                                |  |
|                           | 32                            | MAR 22                  | APR 05 | APR 19 | OCT 15                  | OCT 28 | NOV 10 | 222                     | 205 | 188 | 20                                |  |
|                           | 28                            | MAR 07                  | MAR 20 | APR 03 | OCT 26                  | NOV 09 | NOV 23 | 254                     | 233 | 212 | 14                                |  |
| ARDMORE                   | 36                            | MAR 17                  | MAR 31 | APR 14 | OCT 24                  | NOV 06 | NOV 18 | 238                     | 219 | 200 | 20                                |  |
|                           | 32                            | MAR 03                  | MAR 20 | APR 05 | OCT 27                  | NOV 13 | NOV 30 | 262                     | 238 | 213 | 14                                |  |
|                           | 28                            | FEB 20                  | MAR 10 | MAR 29 | NOV 09                  | NOV 29 | DEC 19 | 289                     | 263 | 237 | 8                                 |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (*) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                 |  |
| OKLAHOMA                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| ARNETT                    | 36<br>32<br>28                | APR 07<br>MAR 28<br>MAR 21 | APR 23<br>APR 10<br>APR 03 | MAY 09<br>APR 24<br>APR 17 | OCT 06<br>OCT 14<br>OCT 24 | OCT 18<br>OCT 29<br>NOV 06 | OCT 31<br>NOV 12<br>NOV 20 | 199<br>220<br>237       | 178<br>201<br>216 | 156<br>181<br>195 | 37<br>31<br>23                  |  |
| BARTLESVILLE 2 W          | 36<br>32<br>28                | APR 07<br>MAR 27<br>MAR 18 | APR 21<br>APR 13<br>APR 01 | MAY 06<br>APR 29<br>APR 15 | OCT 01<br>OCT 07<br>OCT 19 | OCT 14<br>OCT 21<br>NOV 02 | OCT 26<br>NOV 04<br>NOV 16 | 191<br>209<br>235       | 174<br>191<br>214 | 157<br>173<br>193 | 33<br>27<br>20                  |  |
| BEAVER 1 SW               | 36<br>32<br>28                | APR 14<br>APR 04<br>MAR 22 | APR 27<br>APR 20<br>APR 09 | MAY 11<br>MAY 05<br>APR 26 | SEP 26<br>OCT 04<br>OCT 15 | OCT 10<br>OCT 18<br>OCT 30 | OCT 24<br>NOV 01<br>NOV 14 | 185<br>203<br>225       | 165<br>181<br>204 | 145<br>158<br>182 | 41<br>35<br>28                  |  |
| BIXBY 2 NE                | 36<br>32<br>28                | APR 05<br>MAR 25<br>MAR 10 | APR 18<br>APR 06<br>MAR 25 | MAY 02<br>APR 17<br>APR 08 | OCT 02<br>OCT 09<br>OCT 18 | OCT 15<br>OCT 24<br>NOV 03 | OCT 28<br>NOV 09<br>NOV 19 | 195<br>217<br>246       | 179<br>201<br>223 | 163<br>185<br>199 | 32<br>25<br>18                  |  |
| BOISE CITY 2 E            | 36<br>32<br>28                | APR 22<br>APR 13<br>APR 30 | MAY 06<br>APR 28<br>APR 14 | MAY 19<br>MAY 12<br>APR 29 | SEP 21<br>OCT 04<br>OCT 13 | OCT 07<br>OCT 16<br>OCT 25 | OCT 23<br>OCT 29<br>NOV 07 | 177<br>189<br>213       | 153<br>171<br>193 | 130<br>153<br>173 | 45<br>38<br>30                  |  |
| BRISTOW                   | 36<br>32<br>28                | APR 05<br>MAR 23<br>MAR 14 | APR 19<br>APR 06<br>MAR 27 | MAY 04<br>APR 19<br>APR 09 | OCT 04<br>OCT 13<br>OCT 24 | OCT 17<br>OCT 27<br>NOV 06 | OCT 29<br>NOV 10<br>NOV 19 | 195<br>224<br>241       | 180<br>203<br>223 | 164<br>182<br>206 | 31<br>24<br>17                  |  |
| BUFFALO                   | 36<br>32<br>28                | APR 13<br>APR 02<br>MAR 20 | APR 29<br>APR 16<br>APR 05 | MAY 15<br>APR 29<br>APR 21 | SEP 30<br>OCT 07<br>OCT 22 | OCT 13<br>OCT 20<br>NOV 03 | OCT 25<br>NOV 03<br>NOV 15 | 190<br>206<br>231       | 166<br>187<br>211 | 142<br>168<br>191 | 37<br>31<br>23                  |  |
| CARNEGIE 4 ENE            | 36<br>32<br>28                | APR 06<br>MAR 27<br>MAR 17 | APR 21<br>APR 10<br>APR 01 | MAY 06<br>APR 25<br>APR 15 | OCT 06<br>OCT 14<br>OCT 21 | OCT 18<br>OCT 27<br>NOV 07 | OCT 29<br>NOV 10<br>NOV 23 | 199<br>218<br>241       | 179<br>199<br>220 | 160<br>180<br>198 | 31<br>25<br>18                  |  |
| CHANDLER NO 1             | 36<br>32<br>28                | MAR 31<br>MAR 20<br>MAR 08 | APR 14<br>APR 02<br>MAR 23 | APR 29<br>APR 15<br>APR 07 | OCT 12<br>OCT 16<br>OCT 25 | OCT 22<br>OCT 31<br>NOV 11 | OCT 31<br>NOV 15<br>NOV 28 | 209<br>232<br>256       | 190<br>211<br>232 | 170<br>191<br>208 | 28<br>22<br>15                  |  |
| CHATTANOOGA 3 NE          | 36<br>32<br>28                | MAR 29<br>MAR 23<br>MAR 10 | APR 13<br>APR 05<br>MAR 25 | APR 29<br>APR 18<br>APR 09 | OCT 10<br>OCT 18<br>OCT 25 | OCT 23<br>NOV 02<br>NOV 10 | NOV 05<br>NOV 17<br>NOV 26 | 215<br>230<br>251       | 192<br>210<br>230 | 169<br>191<br>208 | 29<br>23<br>16                  |  |
| CHEROKEE POWER PLANT      | 36<br>32<br>28                | APR 08<br>MAR 31<br>MAR 19 | APR 23<br>APR 12<br>APR 01 | MAY 07<br>APR 24<br>APR 14 | OCT 05<br>OCT 11<br>OCT 18 | OCT 16<br>OCT 25<br>NOV 04 | OCT 27<br>NOV 08<br>NOV 22 | 195<br>211<br>238       | 176<br>195<br>217 | 157<br>179<br>195 | 35<br>29<br>21                  |  |
| CHICKASHA EXP STATION     | 36<br>32<br>28                | APR 03<br>MAR 22<br>MAR 13 | APR 16<br>APR 06<br>APR 28 | APR 29<br>APR 20<br>APR 12 | OCT 08<br>OCT 14<br>OCT 23 | OCT 18<br>OCT 27<br>NOV 09 | OCT 29<br>NOV 08<br>NOV 26 | 201<br>222<br>247       | 184<br>203<br>226 | 167<br>184<br>204 | 30<br>24<br>17                  |  |
| CLAREMORE 2 ENE           | 36<br>32<br>28                | APR 09<br>MAR 25<br>MAR 12 | APR 22<br>APR 07<br>MAR 27 | MAY 04<br>APR 20<br>APR 11 | OCT 03<br>OCT 09<br>OCT 23 | OCT 15<br>OCT 23<br>NOV 07 | OCT 27<br>NOV 06<br>NOV 21 | 194<br>216<br>247       | 175<br>198<br>224 | 157<br>180<br>201 | 33<br>26<br>20                  |  |
| CLEVELAND                 | 36<br>32<br>28                | APR 01<br>MAR 24<br>MAR 14 | APR 16<br>APR 06<br>MAR 29 | MAY 02<br>APR 20<br>APR 13 | OCT 06<br>OCT 12<br>OCT 25 | OCT 17<br>OCT 28<br>NOV 09 | OCT 28<br>NOV 13<br>NOV 25 | 203<br>225<br>250       | 183<br>204<br>225 | 163<br>183<br>200 | 31<br>24<br>17                  |  |
| CLINTON                   | 36<br>32<br>28                | APR 06<br>MAR 26<br>MAR 15 | APR 21<br>APR 09<br>MAR 29 | MAY 06<br>APR 22<br>APR 12 | OCT 08<br>OCT 12<br>OCT 24 | OCT 19<br>OCT 28<br>NOV 09 | OCT 30<br>NOV 12<br>NOV 26 | 199<br>223<br>247       | 180<br>201<br>224 | 161<br>180<br>201 | 32<br>26<br>18                  |  |
| CUSHING                   | 36<br>32<br>28                | MAR 28<br>MAR 18<br>MAR 04 | APR 11<br>APR 03<br>MAR 20 | APR 24<br>APR 18<br>APR 05 | OCT 11<br>OCT 21<br>OCT 29 | OCT 24<br>NOV 05<br>NOV 12 | NOV 06<br>NOV 21<br>NOV 27 | 216<br>239<br>260       | 196<br>216<br>236 | 176<br>193<br>212 | 31<br>24<br>18                  |  |
| DUNCAN                    | 36<br>32<br>28                | MAR 26<br>MAR 12<br>MAR 03 | APR 09<br>MAR 29<br>MAR 19 | APR 22<br>APR 14<br>APR 03 | OCT 15<br>OCT 25<br>NOV 01 | OCT 27<br>NOV 07<br>NOV 18 | NOV 08<br>NOV 20<br>DEC 05 | 219<br>243<br>268       | 200<br>222<br>244 | 182<br>202<br>219 | 25<br>18<br>12                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| OKLAHOMA                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| ENID                      | 36                            | APR 01                  | APR 13 | APR 25 | OCT 11                  | OCT 22 | NOV 03 | 207                     | 191 | 175 | 30                                |  |
|                           | 32                            | MAR 24                  | APR 04 | APR 15 | OCT 21                  | NOV 03 | NOV 15 | 228                     | 211 | 195 | 23                                |  |
|                           | 28                            | MAR 10                  | MAR 25 | APR 09 | OCT 28                  | NOV 11 | NOV 25 | 248                     | 231 | 214 | 16                                |  |
| ERICK 4 E                 | 36                            | APR 08                  | APR 24 | MAY 10 | OCT 03                  | OCT 15 | OCT 28 | 197                     | 173 | 150 | 35                                |  |
|                           | 32                            | MAR 29                  | APR 12 | APR 26 | OCT 11                  | OCT 27 | NOV 12 | 219                     | 197 | 176 | 28                                |  |
|                           | 28                            | MAR 20                  | APR 03 | APR 16 | OCT 18                  | NOV 03 | NOV 20 | 237                     | 214 | 191 | 21                                |  |
| FORT SUPPLY DAM           | 36                            | APR 08                  | APR 24 | MAY 10 | OCT 02                  | OCT 14 | OCT 25 | 194                     | 172 | 150 | 37                                |  |
|                           | 32                            | MAR 27                  | APR 12 | APR 28 | OCT 07                  | OCT 21 | NOV 04 | 211                     | 191 | 171 | 30                                |  |
|                           | 28                            | MAR 20                  | APR 02 | APR 14 | OCT 20                  | NOV 03 | NOV 16 | 234                     | 214 | 194 | 23                                |  |
| FREDERICK                 | 36                            | MAR 25                  | APR 08 | APR 22 | OCT 15                  | OCT 28 | NOV 11 | 220                     | 203 | 185 | 26                                |  |
|                           | 32                            | MAR 16                  | MAR 31 | APR 15 | OCT 28                  | NOV 09 | NOV 21 | 240                     | 222 | 204 | 20                                |  |
|                           | 28                            | MAR 04                  | MAR 20 | APR 05 | OCT 29                  | NOV 17 | DEC 05 | 268                     | 241 | 214 | 12                                |  |
| GAGE FAA AIRPORT          | 36                            | APR 11                  | APR 28 | MAY 14 | SEP 28                  | OCT 10 | OCT 23 | 188                     | 165 | 141 | 39                                |  |
|                           | 32                            | APR 02                  | APR 18 | MAY 04 | OCT 06                  | OCT 21 | NOV 05 | 204                     | 185 | 167 | 33                                |  |
|                           | 28                            | MAR 24                  | APR 06 | APR 19 | OCT 16                  | OCT 30 | NOV 13 | 227                     | 207 | 187 | 26                                |  |
| GEARY                     | 36                            | APR 03                  | APR 15 | APR 27 | OCT 11                  | OCT 23 | NOV 05 | 207                     | 190 | 174 | 30                                |  |
|                           | 32                            | MAR 20                  | APR 04 | APR 20 | OCT 18                  | NOV 02 | NOV 17 | 234                     | 211 | 188 | 23                                |  |
|                           | 28                            | MAR 11                  | MAR 26 | APR 10 | OCT 30                  | NOV 13 | NOV 27 | 249                     | 231 | 214 | 16                                |  |
| GOODWELL                  | 36                            | APR 20                  | MAY 04 | MAY 18 | SEP 22                  | OCT 08 | OCT 24 | 181                     | 157 | 132 | 43                                |  |
|                           | 32                            | APR 10                  | APR 25 | MAY 10 | OCT 07                  | OCT 20 | NOV 03 | 194                     | 178 | 161 | 36                                |  |
|                           | 28                            | MAR 30                  | APR 16 | MAY 03 | OCT 13                  | OCT 28 | NOV 13 | 218                     | 195 | 171 | 28                                |  |
| GUTHRIE 2 WNW             | 36                            | APR 04                  | APR 19 | MAY 04 | OCT 05                  | OCT 16 | OCT 28 | 201                     | 179 | 157 | 31                                |  |
|                           | 32                            | MAR 26                  | APR 09 | APR 23 | OCT 12                  | OCT 28 | NOV 12 | 224                     | 201 | 178 | 25                                |  |
|                           | 28                            | MAR 14                  | MAR 28 | APR 11 | OCT 20                  | NOV 08 | NOV 27 | 248                     | 224 | 201 | 18                                |  |
| HAMMON                    | 36                            | APR 09                  | APR 24 | MAY 10 | SEP 29                  | OCT 12 | OCT 24 | 191                     | 169 | 148 | 36                                |  |
|                           | 32                            | MAR 28                  | APR 13 | APR 28 | OCT 13                  | OCT 23 | NOV 02 | 211                     | 193 | 174 | 30                                |  |
|                           | 28                            | MAR 20                  | APR 04 | APR 19 | OCT 17                  | NOV 01 | NOV 16 | 234                     | 210 | 187 | 22                                |  |
| HENNESSEY 1 N             | 36                            | APR 05                  | APR 19 | MAY 03 | OCT 09                  | OCT 21 | NOV 01 | 202                     | 184 | 165 | 32                                |  |
|                           | 32                            | MAR 27                  | APR 10 | APR 24 | OCT 15                  | OCT 30 | NOV 13 | 221                     | 202 | 183 | 25                                |  |
|                           | 28                            | MAR 15                  | MAR 29 | APR 12 | OCT 28                  | NOV 09 | NOV 22 | 240                     | 224 | 209 | 17                                |  |
| HOBART FAA AIRPORT        | 36                            | APR 02                  | APR 16 | APR 29 | OCT 11                  | OCT 26 | NOV 09 | 210                     | 192 | 174 | 31                                |  |
|                           | 32                            | MAR 25                  | APR 08 | APR 22 | OCT 18                  | NOV 03 | NOV 19 | 229                     | 209 | 188 | 25                                |  |
|                           | 28                            | MAR 15                  | MAR 30 | APR 14 | OCT 25                  | NOV 12 | NOV 30 | 252                     | 227 | 201 | 17                                |  |
| HOLDENVILLE               | 36                            | MAR 27                  | APR 10 | APR 23 | OCT 11                  | OCT 24 | NOV 07 | 217                     | 197 | 177 | 26                                |  |
|                           | 32                            | MAR 18                  | MAR 31 | APR 12 | OCT 21                  | NOV 05 | NOV 21 | 239                     | 219 | 199 | 19                                |  |
|                           | 28                            | MAR 02                  | MAR 19 | APR 04 | OCT 31                  | NOV 14 | NOV 28 | 261                     | 240 | 218 | 13                                |  |
| HOLLIS                    | 36                            | MAR 31                  | APR 15 | APR 30 | OCT 08                  | OCT 21 | NOV 03 | 210                     | 188 | 166 | 32                                |  |
|                           | 32                            | MAR 25                  | APR 06 | APR 18 | OCT 18                  | NOV 01 | NOV 15 | 227                     | 208 | 189 | 25                                |  |
|                           | 28                            | MAR 15                  | MAR 29 | APR 13 | OCT 29                  | NOV 10 | NOV 21 | 245                     | 225 | 205 | 18                                |  |
| HOOKER 1 N                | 36                            | APR 17                  | MAY 01 | MAY 14 | SEP 25                  | OCT 09 | OCT 23 | 182                     | 161 | 139 | .42                               |  |
|                           | 32                            | APR 04                  | APR 21 | MAY 08 | OCT 04                  | OCT 19 | NOV 03 | 203                     | 180 | 158 | .36                               |  |
|                           | 28                            | MAR 21                  | APR 10 | APR 29 | OCT 14                  | OCT 30 | NOV 14 | 230                     | 202 | 175 | .28                               |  |
| HUGO                      | 36                            | MAR 22                  | APR 06 | APR 21 | OCT 15                  | OCT 31 | NOV 15 | 228                     | 207 | 186 | 22                                |  |
|                           | 32                            | MAR 10                  | MAR 27 | APR 13 | OCT 23                  | NOV 07 | NOV 22 | 246                     | 224 | 203 | 15                                |  |
|                           | 28                            | FEB 19                  | MAR 11 | MAR 31 | OCT 30                  | NOV 19 | DEC 09 | 280                     | 252 | 224 | 10                                |  |
| HULAH DAM                 | 36                            | APR 07                  | APR 22 | MAY 07 | SEP 29                  | OCT 12 | OCT 25 | 191                     | 172 | 153 | 36                                |  |
|                           | 32                            | MAR 29                  | APR 12 | APR 25 | OCT 08                  | OCT 21 | NOV 03 | 207                     | 192 | 176 | 30                                |  |
|                           | 28                            | MAR 20                  | APR 01 | APR 13 | OCT 19                  | NOV 03 | NOV 17 | 234                     | 215 | 196 | 23                                |  |
| IDABEL                    | 36                            | MAR 26                  | APR 10 | APR 24 | OCT 12                  | OCT 26 | NOV 09 | 217                     | 198 | 179 | 24                                |  |
|                           | 32                            | MAR 17                  | MAR 31 | APR 15 | OCT 20                  | NOV 04 | NOV 19 | 238                     | 217 | 195 | 18                                |  |
|                           | 28                            | FEB 24                  | MAR 14 | APR 01 | OCT 30                  | NOV 12 | NOV 24 | 265                     | 242 | 219 | 11                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| OKLAHOMA                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| JAY                       | 36<br>32<br>28                | APR 12<br>APR 01<br>MAR 21 | APR 29<br>APR 18<br>APR 03 | MAY 15<br>MAY 04<br>APR 16 | SEP 26<br>OCT 05<br>OCT 14 | OCT 09<br>OCT 18<br>OCT 29 | OCT 23<br>OCT 31<br>NOV 14 | 185<br>199<br>229       | 163<br>182<br>209 | 140<br>166<br>189 | 33<br>27<br>19                    |  |
| JEFFERSON                 | 36<br>32<br>28                | APR 13<br>APR 03<br>MAR 21 | APR 26<br>APR 15<br>APR 02 | MAY 10<br>MAY 09<br>APR 15 | OCT 05<br>OCT 10<br>OCT 21 | OCT 16<br>OCT 23<br>NOV 06 | OCT 27<br>NOV 05<br>NOV 21 | 189<br>206<br>238       | 172<br>190<br>217 | 154<br>174<br>195 | 34<br>28<br>20                    |  |
| KENTON                    | 36<br>32<br>28                | APR 25<br>APR 15<br>MAR 30 | MAY 09<br>MAY 09<br>APR 13 | MAY 22<br>OCT 21<br>APR 27 | SEP 19<br>SEP 28<br>OCT 12 | OCT 05<br>OCT 13<br>OCT 25 | OCT 21<br>OCT 28<br>NOV 07 | 170<br>189<br>215       | 149<br>168<br>194 | 127<br>147<br>173 | 46<br>39<br>31                    |  |
| KINGFISHER                | 36<br>32<br>28                | APR 05<br>MAR 27<br>MAR 17 | APR 21<br>APR 10<br>MAR 31 | MAY 06<br>APR 24<br>APR 13 | OCT 06<br>OCT 15<br>OCT 22 | OCT 18<br>OCT 28<br>NOV 08 | OCT 29<br>NOV 10<br>NOV 25 | 199<br>218<br>244       | 179<br>200<br>222 | 159<br>182<br>199 | 32<br>26<br>18                    |  |
| LAWTON                    | 36<br>32<br>28                | MAR 26<br>MAR 17<br>MAR 03 | APR 10<br>APR 01<br>APR 18 | APR 24<br>APR 15<br>APR 02 | OCT 13<br>OCT 21<br>OCT 29 | OCT 25<br>NOV 05<br>NOV 13 | NOV 06<br>NOV 19<br>NOV 28 | 215<br>239<br>264       | 198<br>217<br>239 | 181<br>195<br>215 | 28<br>22<br>14                    |  |
| MADILL                    | 36<br>32<br>28                | MAR 23<br>MAR 11<br>FEB 24 | APR 07<br>MAR 26<br>MAR 14 | APR 22<br>APR 10<br>APR 01 | OCT 16<br>OCT 26<br>OCT 31 | OCT 29<br>NOV 09<br>NOV 19 | NOV 12<br>NOV 24<br>DEC 07 | 224<br>248<br>280       | 205<br>227<br>249 | 185<br>206<br>218 | 22<br>16<br>10                    |  |
| MANGUM RESEARCH STA       | 36<br>32<br>28                | APR 02<br>MAR 25<br>MAR 10 | APR 15<br>APR 05<br>MAR 25 | APR 27<br>APR 16<br>APR 09 | OCT 12<br>OCT 18<br>OCT 29 | OCT 22<br>NOV 03<br>NOV 10 | NOV 01<br>NOV 19<br>NOV 23 | 208<br>231<br>250       | 190<br>211<br>230 | 172<br>190<br>209 | 31<br>25<br>17                    |  |
| MARIETTA 3 NW             | 36<br>32<br>28                | MAR 25<br>MAR 16<br>MAR 03 | APR 06<br>MAR 30<br>MAR 18 | APR 19<br>APR 13<br>APR 02 | OCT 14<br>OCT 25<br>OCT 29 | OCT 29<br>NOV 07<br>NOV 14 | NOV 13<br>NOV 20<br>DEC 01 | 221<br>241<br>263       | 205<br>221<br>241 | 189<br>202<br>218 | 24<br>17<br>11                    |  |
| MCALISTER FAA AIRPORT     | 36<br>32<br>28                | MAR 28<br>MAR 19<br>MAR 05 | APR 12<br>MAR 31<br>MAR 21 | APR 28<br>APR 12<br>APR 06 | OCT 11<br>OCT 15<br>OCT 27 | OCT 22<br>OCT 31<br>NOV 11 | NOV 02<br>NOV 15<br>NOV 25 | 211<br>232<br>257       | 192<br>213<br>234 | 174<br>193<br>211 | 26<br>20<br>14                    |  |
| MEEKER 1 E                | 36<br>32<br>28                | APR 02<br>MAR 24<br>MAR 15 | APR 16<br>APR 05<br>MAR 29 | MAY 01<br>APR 17<br>APR 13 | OCT 02<br>OCT 13<br>OCT 23 | OCT 15<br>OCT 26<br>NOV 08 | OCT 28<br>NOV 08<br>NOV 24 | 198<br>219<br>243       | 181<br>203<br>223 | 164<br>187<br>203 | 31<br>24<br>17                    |  |
| MIAMI                     | 36<br>32<br>28                | APR 07<br>MAR 29<br>MAR 15 | APR 21<br>APR 11<br>MAR 29 | MAY 05<br>APR 25<br>APR 11 | SEP 30<br>OCT 12<br>OCT 23 | OCT 14<br>OCT 25<br>NOV 07 | OCT 28<br>NOV 07<br>NOV 22 | 193<br>216<br>244       | 175<br>196<br>223 | 158<br>176<br>202 | 32<br>25<br>18                    |  |
| MUSKOGEE                  | 36<br>32<br>28                | MAR 30<br>MAR 21<br>MAR 02 | APR 13<br>APR 01<br>MAR 19 | APR 27<br>APR 11<br>APR 04 | OCT 08<br>OCT 19<br>OCT 29 | OCT 22<br>NOV 02<br>NOV 15 | NOV 05<br>NOV 16<br>DEC 01 | 209<br>232<br>264       | 191<br>215<br>240 | 173<br>198<br>216 | 26<br>20<br>13                    |  |
| MUTUAL                    | 36<br>32<br>28                | APR 12<br>MAR 28<br>MAR 23 | APR 26<br>APR 14<br>APR 05 | MAY 10<br>APR 30<br>APR 18 | OCT 02<br>OCT 09<br>OCT 17 | OCT 14<br>OCT 25<br>NOV 03 | OCT 26<br>NOV 09<br>NOV 19 | 191<br>215<br>231       | 170<br>193<br>211 | 149<br>172<br>191 | 36<br>29<br>22                    |  |
| NEWKIRK                   | 36<br>32<br>28                | APR 07<br>MAR 30<br>MAR 16 | APR 23<br>APR 12<br>MAR 30 | MAY 09<br>APR 24<br>APR 13 | OCT 04<br>OCT 15<br>OCT 24 | OCT 18<br>OCT 28<br>NOV 08 | NOV 02<br>NOV 09<br>NOV 22 | 198<br>213<br>243       | 177<br>198<br>222 | 157<br>184<br>201 | 33<br>26<br>18                    |  |
| NOWATA                    | 36<br>32<br>28                | APR 02<br>MAR 26<br>MAR 13 | APR 19<br>APR 10<br>MAR 28 | MAY 05<br>APR 26<br>APR 12 | OCT 05<br>OCT 16<br>OCT 24 | OCT 17<br>OCT 30<br>NOV 07 | OCT 28<br>NOV 13<br>NOV 22 | 199<br>226<br>247       | 180<br>202<br>224 | 161<br>178<br>200 | 33<br>25<br>19                    |  |
| OKEENE                    | 36<br>32<br>28                | APR 11<br>MAR 28<br>MAR 12 | APR 24<br>APR 09<br>MAR 28 | MAY 06<br>APR 21<br>APR 14 | OCT 06<br>OCT 11<br>OCT 20 | OCT 18<br>OCT 27<br>NOV 07 | OCT 30<br>NOV 12<br>NOV 24 | 197<br>222<br>247       | 177<br>200<br>222 | 156<br>179<br>197 | 33<br>26<br>18                    |  |
| OKEMAH                    | 36<br>32<br>28                | MAR 25<br>MAR 16<br>MAR 03 | APR 08<br>MAR 28<br>MAR 18 | APR 22<br>APR 10<br>APR 02 | OCT 15<br>OCT 26<br>OCT 30 | OCT 28<br>NOV 07<br>NOV 15 | NOV 09<br>NOV 19<br>NOV 30 | 220<br>241<br>263       | 202<br>224<br>241 | 183<br>206<br>220 | 26<br>19<br>13                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| OKLAHOMA                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| OKMULGEE WATER WORKS      | 36<br>32<br>28                | APR 01<br>MAR 22<br>MAR 10 | APR 15<br>APR 03<br>MAR 26 | APR 29<br>APR 15<br>APR 10 | OCT 02<br>OCT 11<br>OCT 20 | OCT 16<br>OCT 27<br>NOV 05 | OCT 30<br>NOV 13<br>NOV 22 | 207<br>227<br>250       | 183<br>207<br>224 | 159<br>186<br>197 | 29<br>23<br>16                    |  |
| PAULS VALLEY              | 36<br>32<br>28                | MAR 30<br>MAR 21<br>MAR 09 | APR 13<br>APR 03<br>MAR 24 | APR 26<br>APR 17<br>APR 07 | OCT 10<br>OCT 17<br>OCT 25 | OCT 22<br>OCT 31<br>NOV 09 | NOV 02<br>NOV 14<br>NOV 25 | 208<br>229<br>250       | 192<br>210<br>230 | 175<br>191<br>211 | 27<br>21<br>14                    |  |
| PAWHUSKA                  | 36<br>32<br>28                | APR 14<br>MAR 30<br>MAR 19 | APR 27<br>APR 13<br>APR 02 | MAY 10<br>APR 28<br>APR 15 | OCT 01<br>OCT 08<br>OCT 21 | OCT 14<br>OCT 21<br>NOV 04 | OCT 26<br>NOV 03<br>NOV 17 | 185<br>205<br>235       | 169<br>189<br>215 | 152<br>174<br>196 | 34<br>27<br>21                    |  |
| PERRY                     | 36<br>32<br>28                | APR 03<br>MAR 22<br>MAR 15 | APR 17<br>APR 05<br>MAR 27 | MAY 01<br>APR 19<br>APR 08 | OCT 07<br>OCT 16<br>OCT 23 | OCT 20<br>OCT 29<br>NOV 08 | NOV 01<br>NOV 11<br>NOV 25 | 204<br>226<br>245       | 185<br>206<br>226 | 166<br>185<br>207 | 30<br>23<br>16                    |  |
| PONCA CITY FAA AIRPORT    | 36<br>32<br>28                | APR 09<br>MAR 29<br>MAR 20 | APR 24<br>APR 13<br>APR 01 | MAY 08<br>APR 27<br>APR 13 | OCT 02<br>OCT 13<br>OCT 20 | OCT 16<br>OCT 26<br>NOV 05 | OCT 30<br>NOV 07<br>NOV 22 | 195<br>215<br>241       | 175<br>195<br>218 | 154<br>176<br>195 | 34<br>28<br>20                    |  |
| POTEAU                    | 36<br>32<br>28                | MAR 30<br>MAR 17<br>MAR 02 | APR 14<br>APR 01<br>MAR 20 | APR 30<br>APR 16<br>APR 06 | OCT 08<br>OCT 17<br>OCT 25 | OCT 21<br>OCT 30<br>NOV 10 | NOV 03<br>NOV 12<br>NOV 25 | 208<br>230<br>261       | 189<br>211<br>234 | 170<br>192<br>208 | 25<br>19<br>13                    |  |
| PRYOR                     | 36<br>32<br>28                | APR 07<br>MAR 26<br>MAR 16 | APR 22<br>APR 08<br>APR 11 | MAY 07<br>APR 22<br>APR 11 | SEP 29<br>OCT 10<br>OCT 21 | OCT 13<br>OCT 24<br>NOV 06 | OCT 26<br>NOV 07<br>NOV 22 | 192<br>212<br>240       | 173<br>198<br>221 | 155<br>184<br>203 | 33<br>26<br>19                    |  |
| PURCELL                   | 36<br>32<br>28                | APR 04<br>MAR 24<br>MAR 15 | APR 17<br>APR 06<br>MAR 30 | APR 30<br>APR 18<br>APR 15 | OCT 12<br>OCT 12<br>OCT 24 | OCT 21<br>OCT 28<br>NOV 09 | OCT 30<br>NOV 13<br>NOV 26 | 205<br>226<br>247       | 187<br>205<br>223 | 168<br>183<br>199 | 31<br>24<br>17                    |  |
| SALLISAW                  | 36<br>32<br>28                | APR 05<br>MAR 22<br>MAR 04 | APR 18<br>APR 06<br>MAR 21 | APR 30<br>APR 22<br>APR 07 | OCT 08<br>OCT 15<br>OCT 26 | OCT 20<br>OCT 31<br>NOV 10 | OCT 31<br>NOV 16<br>NOV 25 | 202<br>230<br>261       | 184<br>207<br>233 | 166<br>183<br>205 | 27<br>21<br>14                    |  |
| SEMINOLE                  | 36<br>32<br>28                | MAR 25<br>MAR 18<br>MAR 01 | APR 09<br>MAR 31<br>MAR 19 | APR 24<br>APR 13<br>APR 05 | OCT 14<br>OCT 20<br>OCT 29 | OCT 24<br>NOV 05<br>NOV 14 | NOV 03<br>NOV 21<br>NOV 29 | 217<br>239<br>264       | 197<br>218<br>239 | 178<br>198<br>214 | 26<br>20<br>13                    |  |
| STILLWATER 2 W            | 36<br>32<br>28                | APR 06<br>MAR 25<br>MAR 12 | APR 20<br>APR 07<br>MAR 27 | MAY 05<br>APR 19<br>APR 10 | OCT 07<br>OCT 14<br>OCT 24 | OCT 19<br>OCT 26<br>NOV 09 | NOV 01<br>NOV 07<br>NOV 24 | 202<br>220<br>248       | 181<br>202<br>226 | 161<br>183<br>204 | 32<br>26<br>18                    |  |
| TAHLEQUAH 1 SE            | 36<br>32<br>28                | APR 07<br>MAR 26<br>MAR 17 | APR 23<br>APR 13<br>MAR 31 | MAY 10<br>APR 30<br>APR 14 | OCT 02<br>OCT 08<br>OCT 17 | OCT 14<br>OCT 24<br>NOV 03 | OCT 27<br>NOV 10<br>NOV 20 | 194<br>218<br>236       | 173<br>194<br>216 | 152<br>170<br>197 | 30<br>24<br>17                    |  |
| TALOGA                    | 36<br>32<br>28                | APR 11<br>MAR 30<br>MAR 26 | APR 27<br>APR 13<br>APR 07 | MAY 12<br>APR 27<br>APR 19 | OCT 01<br>OCT 09<br>OCT 15 | OCT 13<br>OCT 22<br>OCT 29 | OCT 25<br>NOV 03<br>NOV 12 | 190<br>207<br>224       | 168<br>191<br>204 | 147<br>174<br>185 | 36<br>30<br>22                    |  |
| TULSA WSO                 | 36<br>32<br>28                | MAR 26<br>MAR 16<br>MAR 04 | APR 11<br>MAR 30<br>MAR 19 | APR 27<br>APR 13<br>APR 03 | OCT 13<br>OCT 21<br>OCT 29 | OCT 24<br>NOV 04<br>NOV 15 | NOV 04<br>NOV 17<br>DEC 01 | 215<br>238<br>265       | 195<br>218<br>240 | 175<br>199<br>214 | 29<br>22<br>15                    |  |
| VINITA 3 NNE              | 36<br>32<br>28                | APR 10<br>MAR 31<br>MAR 17 | APR 25<br>APR 15<br>MAR 30 | MAY 10<br>APR 29<br>APR 12 | OCT 01<br>OCT 08<br>OCT 20 | OCT 14<br>OCT 22<br>NOV 04 | OCT 27<br>NOV 04<br>NOV 19 | 193<br>208<br>240       | 171<br>189<br>218 | 149<br>171<br>196 | 33<br>26<br>19                    |  |
| WAGONER                   | 36<br>32<br>28                | APR 07<br>MAR 25<br>MAR 09 | APR 20<br>APR 06<br>MAR 25 | MAY 03<br>APR 17<br>APR 10 | OCT 03<br>OCT 16<br>OCT 24 | OCT 17<br>OCT 28<br>NOV 08 | OCT 31<br>NOV 09<br>NOV 24 | 198<br>221<br>250       | 179<br>205<br>227 | 160<br>189<br>204 | 28<br>22<br>15                    |  |
| WALTERS                   | 36<br>32<br>28                | MAR 28<br>MAR 15<br>MAR 07 | APR 10<br>MAR 29<br>MAR 22 | APR 23<br>APR 13<br>APR 06 | OCT 11<br>OCT 18<br>OCT 28 | OCT 25<br>NOV 03<br>NOV 16 | NOV 08<br>NOV 19<br>DEC 04 | 216<br>240<br>266       | 197<br>218<br>238 | 179<br>196<br>211 | 27<br>21<br>13                    |  |

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| OKLAHOMA                  |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| WAURICA                   | 36                            | MAR 27                  | APR 11 | APR 26 | OCT 11                  | OCT 24 | NOV 05 | 216                     | 195 | 174 | 26                                |  |
|                           | 32                            | MAR 20                  | APR 02 | APR 15 | OCT 20                  | NOV 03 | NOV 17 | 234                     | 214 | 194 | 20                                |  |
|                           | 28                            | MAR 09                  | MAR 22 | APR 05 | OCT 27                  | NOV 11 | NOV 26 | 252                     | 233 | 214 | 13                                |  |
| WAYNOKA                   | 36                            | APR 05                  | APR 20 | MAY 06 | OCT 03                  | OCT 14 | OCT 25 | 199                     | 176 | 153 | 35                                |  |
|                           | 32                            | MAR 26                  | APR 10 | APR 26 | OCT 12                  | OCT 25 | NOV 07 | 216                     | 197 | 178 | 28                                |  |
|                           | 28                            | MAR 16                  | MAR 28 | APR 10 | OCT 22                  | NOV 04 | NOV 18 | 238                     | 220 | 202 | 21                                |  |
| WEATHERFORD               | 36                            | APR 01                  | APR 13 | APR 26 | OCT 12                  | OCT 24 | NOV 05 | 208                     | 193 | 177 | 30                                |  |
|                           | 32                            | MAR 22                  | APR 05 | APR 19 | OCT 17                  | NOV 01 | NOV 17 | 231                     | 210 | 188 | 23                                |  |
|                           | 28                            | MAR 09                  | MAR 24 | APR 08 | OCT 25                  | NOV 10 | NOV 27 | 252                     | 230 | 208 | 16                                |  |
| WEBBERS FALLS             | 36                            | APR 01                  | APR 15 | APR 30 | OCT 04                  | OCT 18 | OCT 31 | 205                     | 184 | 164 | 32                                |  |
|                           | 32                            | MAR 21                  | APR 03 | APR 16 | OCT 13                  | OCT 29 | NOV 13 | 225                     | 208 | 190 | 25                                |  |
|                           | 28                            | MAR 06                  | MAR 20 | APR 03 | OCT 26                  | NOV 08 | NOV 21 | 253                     | 232 | 210 | 17                                |  |
| WICHITA MT WL REF         | 36                            | MAR 31                  | APR 18 | MAY 05 | OCT 04                  | OCT 16 | OCT 28 | 201                     | 180 | 159 | 31                                |  |
|                           | 32                            | MAR 24                  | APR 09 | APR 26 | OCT 14                  | OCT 26 | NOV 08 | 221                     | 199 | 177 | 25                                |  |
|                           | 28                            | MAR 17                  | MAR 30 | APR 12 | OCT 22                  | NOV 08 | NOV 24 | 246                     | 222 | 198 | 18                                |  |
| WILBURTON 9 ENE           | 36                            | APR 09                  | APR 21 | MAY 03 | OCT 03                  | OCT 16 | OCT 29 | 197                     | 177 | 157 | 29                                |  |
|                           | 32                            | MAR 24                  | APR 10 | APR 26 | OCT 09                  | OCT 23 | NOV 05 | 217                     | 196 | 174 | 22                                |  |
|                           | 28                            | MAR 18                  | MAR 30 | APR 11 | OCT 18                  | NOV 03 | NOV 19 | 237                     | 217 | 197 | 16                                |  |
| WISTER DAM                | 36                            | APR 01                  | APR 17 | MAY 04 | OCT 05                  | OCT 18 | OCT 31 | 204                     | 183 | 162 | 29                                |  |
|                           | 32                            | MAR 24                  | APR 07 | APR 20 | OCT 13                  | OCT 26 | NOV 08 | 222                     | 202 | 182 | 22                                |  |
|                           | 28                            | MAR 04                  | MAR 19 | APR 04 | OCT 23                  | NOV 07 | NOV 22 | 250                     | 232 | 214 | 15                                |  |
| WOODWARD FIELD STATION    | 36                            | APR 04                  | APR 21 | MAY 08 | OCT 03                  | OCT 17 | OCT 30 | 202                     | 178 | 153 | 36                                |  |
|                           | 32                            | MAR 23                  | APR 08 | APR 25 | OCT 16                  | OCT 29 | NOV 11 | 223                     | 203 | 182 | 29                                |  |
|                           | 28                            | MAR 18                  | APR 01 | APR 14 | OCT 22                  | NOV 06 | NOV 20 | 240                     | 218 | 196 | 22                                |  |
| OREGON                    |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| ANTELOPE 1 N              | 36                            | MAY 30                  | JUN 25 | JUL 21 | AUG 23                  | SEP 10 | SEP 29 | 112                     | 76  | 41  | 52                                |  |
|                           | 32                            | MAY 10                  | MAY 30 | JUN 20 | SEP 05                  | SEP 26 | OCT 17 | 148                     | 118 | 88  | 39                                |  |
|                           | 28                            | APR 23                  | MAY 12 | MAY 30 | SEP 25                  | OCT 13 | NOV 01 | 179                     | 154 | 129 | 25                                |  |
| ARLINGTON                 | 36                            | APR 16                  | MAY 04 | MAY 21 | SEP 17                  | OCT 04 | OCT 21 | 181                     | 153 | 124 | 34                                |  |
|                           | 32                            | APR 01                  | APR 19 | MAY 07 | SEP 30                  | OCT 17 | NOV 04 | 210                     | 181 | 151 | 22                                |  |
|                           | 28                            | MAR 15                  | APR 04 | APR 23 | OCT 15                  | NOV 03 | NOV 22 | 237                     | 212 | 188 | 13                                |  |
| ASHLAND 1 N               | 36                            | MAY 14                  | JUN 02 | JUN 21 | SEP 15                  | SEP 29 | OCT 14 | 143                     | 119 | 95  | 41                                |  |
|                           | 32                            | APR 22                  | MAY 13 | JUN 02 | SEP 26                  | OCT 12 | OCT 29 | 180                     | 152 | 124 | 27                                |  |
|                           | 28                            | MAR 22                  | APR 15 | MAY 08 | OCT 15                  | NOV 02 | NOV 19 | 233                     | 201 | 168 | 14                                |  |
| BAKER FAA AIRPORT         | 36                            | MAY 30                  | JUN 25 | JUL 20 | AUG 09                  | AUG 24 | SEP 08 | 91                      | 59  | 27  | 62                                |  |
|                           | 32                            | MAY 08                  | JUN 03 | JUN 29 | AUG 26                  | SEP 07 | SEP 19 | 126                     | 95  | 64  | 51                                |  |
|                           | 28                            | APR 24                  | MAY 10 | MAY 25 | SEP 07                  | SEP 24 | OCT 11 | 162                     | 137 | 111 | 38                                |  |
| BAKER KBKR                | 36                            | MAY 29                  | JUN 18 | JUL 08 | AUG 20                  | SEP 04 | SEP 19 | 104                     | 78  | 51  | 57                                |  |
|                           | 32                            | MAY 08                  | MAY 30 | JUN 20 | SEP 08                  | SEP 22 | OCT 06 | 141                     | 115 | 89  | 46                                |  |
|                           | 28                            | APR 19                  | MAY 08 | MAY 28 | SEP 17                  | OCT 05 | OCT 23 | 182                     | 149 | 116 | 33                                |  |
| BANDON 1 E-BATES BOG      | 36                            | APR 20                  | MAY 11 | JUN 01 | SEP 12                  | OCT 12 | NOV 11 | 196                     | 153 | 110 | 17                                |  |
|                           | 32                            | FEB 22                  | APR 06 | MAY 19 | OCT 12                  | NOV 19 | DEC 27 | 283                     | 222 | 167 | 7                                 |  |
|                           | 28                            | -                       | JAN 29 | MAR 14 | NOV 15                  | DEC 19 | -      | >365                    | 327 | 270 | 2                                 |  |
| BEND                      | 36                            | JUL 04                  | JUL 18 | AUG 02 | JUL 31                  | AUG 13 | AUG 25 | 44                      | 25  | 5   | 67                                |  |
|                           | 32                            | JUN 12                  | JUL 05 | JUL 28 | AUG 04                  | AUG 23 | SEP 12 | 83                      | 49  | 14  | 53                                |  |
|                           | 28                            | MAY 20                  | JUN 10 | JUL 02 | AUG 26                  | SEP 13 | OCT 02 | 126                     | 94  | 63  | 39                                |  |
| BEULAH                    | 36                            | MAY 22                  | JUN 09 | JUN 28 | AUG 27                  | SEP 11 | SEP 27 | 114                     | 93  | 72  | 55                                |  |
|                           | 32                            | MAY 09                  | MAY 23 | JUN 06 | SEP 10                  | SEP 26 | OCT 11 | 145                     | 125 | 104 | 46                                |  |
|                           | 28                            | APR 19                  | MAY 08 | MAY 28 | SEP 19                  | OCT 03 | OCT 18 | 171                     | 147 | 124 | 34                                |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION    | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                    |                    | FREEZE/FROST<br>PROBABILITY (%) * |  |
|----------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|--------------------|--------------------|-----------------------------------|--|
|                      |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                    |                    |                                   |  |
|                      |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                 | 90                 |                                   |  |
| OREGON               |                               |                            |                            |                            |                            |                            |                            |                         |                    |                    |                                   |  |
| BONNEVILLE DAM       | 36<br>32<br>28                | APR 04<br>MAR 01<br>DEC 23 | APR 23<br>MAR 30<br>FEB 10 | MAY 12<br>APR 28<br>MAR 28 | OCT 18<br>NOV 05<br>NOV 15 | NOV 06<br>NOV 21<br>DEC 16 | NOV 24<br>DEC 06<br>JAN 19 | 225<br>263<br>>365      | 196<br>235<br>305  | 168<br>207<br>263  | 24<br>11<br>4                     |  |
| BROOKINGS            | 36<br>32<br>28                | MAR 28<br>-<br>-           | APR 17<br>FEB 28<br>-      | MAY 06<br>APR 12<br>JAN 28 | OCT 28<br>NOV 17<br>JAN 13 | NOV 26<br>DEC 17<br>-      | DEC 26<br>-                | 261<br>>365<br>>365     | 223<br>299<br>>365 | 185<br>233<br>>365 | 8<br>2<br>0                       |  |
| CHEMULT              | 36<br>32<br>28                | JUL 19<br>JUL 11<br>JUN 23 | JUL 27<br>JUL 22<br>JUL 12 | AUG 04<br>AUG 02<br>JUL 31 | JUL 31<br>JUL 30<br>AUG 02 | AUG 03<br>AUG 07<br>AUG 18 | AUG 07<br>AUG 16<br>SEP 03 | 17<br>30<br>60          | 6<br>15<br>36      | 0<br>0<br>12       | 82<br>71<br>54                    |  |
| CHERRY GROVE 2 S     | 36<br>32<br>28                | APR 28<br>MAR 26<br>JAN 19 | MAY 16<br>APR 16<br>FEB 25 | JUN 03<br>MAY 08<br>MAR 31 | OCT 04<br>OCT 30<br>NOV 06 | OCT 22<br>NOV 13<br>DEC 02 | NOV 10<br>NOV 26<br>DEC 31 | 184<br>236<br>334       | 159<br>210<br>281  | 133<br>183<br>239  | 32<br>17<br>6                     |  |
| CLATSASKIE 3 W       | 36<br>32<br>28                | APR 27<br>MAR 27<br>JAN 29 | MAY 11<br>APR 15<br>FEB 27 | MAY 26<br>MAY 04<br>MAR 28 | OCT 03<br>OCT 23<br>NOV 03 | OCT 20<br>NOV 07<br>DEC 03 | NOV 06<br>NOV 23<br>JAN 03 | 181<br>231<br>316       | 161<br>206<br>277  | 140<br>180<br>241  | 26<br>13<br>4                     |  |
| CLOVERDALE 1 NW      | 36<br>32<br>28                | APR 30<br>MAR 09<br>DEC 21 | MAY 20<br>APR 08<br>FEB 08 | JUN 09<br>MAY 08<br>MAR 19 | SEP 20<br>OCT 30<br>NOV 10 | OCT 19<br>NOV 19<br>DEC 13 | NOV 18<br>DEC 08<br>JAN 24 | 184<br>259<br>>365      | 152<br>224<br>309  | 119<br>189<br>266  | 19<br>8<br>2                      |  |
| CONDON               | 36<br>32<br>28                | MAY 26<br>MAY 10<br>APR 24 | JUN 18<br>JUN 01<br>MAY 12 | JUL 11<br>JUN 22<br>MAY 30 | AUG 16<br>SEP 11<br>SEP 21 | SEP 07<br>SEP 30<br>OCT 10 | SEP 29<br>OCT 18<br>OCT 29 | 116<br>150<br>176       | 80<br>120<br>151   | 44<br>90<br>126    | 53<br>40<br>26                    |  |
| CORVALLIS ST COLLEGE | 36<br>32<br>28                | MAY 05<br>APR 04<br>FEB 10 | MAY 22<br>APR 22<br>MAR 13 | JUN 08<br>MAY 11<br>APR 12 | SEP 19<br>OCT 08<br>OCT 20 | OCT 06<br>OCT 29<br>NOV 20 | OCT 23<br>NOV 19<br>DEC 20 | 159<br>220<br>297       | 137<br>189<br>251  | 114<br>159<br>206  | 30<br>16<br>6                     |  |
| COTTAGE GROVE 1 S    | 36<br>32<br>28                | MAY 14<br>APR 21<br>MAR 04 | JUN 11<br>MAY 17<br>APR 05 | JUL 09<br>JUN 11<br>MAY 07 | AUG 21<br>SEP 16<br>OCT 09 | SEP 14<br>OCT 16<br>NOV 11 | OCT 08<br>NOV 15<br>DEC 13 | 133<br>192<br>265       | 94<br>152<br>219   | 56<br>112<br>174   | 34<br>20<br>7                     |  |
| COTTAGE GROVE DAM    | 36<br>32<br>28                | APR 26<br>APR 02<br>FEB 01 | MAY 15<br>APR 20<br>MAR 09 | JUN 03<br>MAY 08<br>APR 14 | SEP 23<br>OCT 03<br>OCT 27 | OCT 12<br>OCT 28<br>NOV 24 | OCT 31<br>NOV 22<br>DEC 21 | 178<br>222<br>300       | 149<br>190<br>259  | 120<br>158<br>219  | 32<br>18<br>6                     |  |
| CRATER LAKE NP HQ    | 36<br>32<br>28                | JUL 10<br>JUN 29<br>JUN 08 | JUL 20<br>JUL 12<br>JUN 26 | JUL 31<br>AUG 01<br>AUG 14 | AUG 10<br>AUG 16<br>SEP 09 | AUG 21<br>SEP 01<br>OCT 06 | 38<br>57<br>109            | 20<br>34<br>75          | 2<br>11<br>41      | 78<br>66<br>52     |                                   |  |
| DALLAS               | 36<br>32<br>28                | MAY 10<br>APR 19<br>FEB 24 | MAY 31<br>MAY 09<br>MAR 29 | JUN 20<br>MAY 29<br>APR 30 | SEP 08<br>SEP 26<br>OCT 22 | SEP 27<br>OCT 18<br>NOV 09 | OCT 17<br>NOV 10<br>NOV 27 | 150<br>190<br>266       | 119<br>161<br>225  | 88<br>132<br>183   | 34<br>19<br>8                     |  |
| DORENA DAM           | 36<br>32<br>28                | MAY 05<br>APR 08<br>FEB 28 | MAY 24<br>APR 26<br>MAR 28 | JUN 12<br>MAY 13<br>APR 25 | SEP 17<br>OCT 02<br>OCT 20 | OCT 05<br>OCT 24<br>NOV 16 | OCT 24<br>NOV 15<br>DEC 13 | 156<br>208<br>274       | 134<br>180<br>232  | 112<br>153<br>190  | 34<br>19<br>7                     |  |
| DRAIN                | 36<br>32<br>28                | APR 25<br>MAR 28<br>FEB 12 | MAY 23<br>APR 25<br>MAR 20 | JUN 20<br>MAY 23<br>APR 24 | SEP 09<br>SEP 24<br>OCT 12 | OCT 03<br>OCT 24<br>NOV 25 | OCT 28<br>NOV 22<br>JAN 07 | 175<br>224<br>310       | 132<br>181<br>249  | 90<br>138<br>188   | 29<br>15<br>5                     |  |
| DUFUR                | 36<br>32<br>28                | MAY 29<br>MAY 12<br>APR 18 | JUN 17<br>MAY 30<br>MAY 08 | JUL 07<br>JUN 18<br>MAY 27 | AUG 19<br>SEP 10<br>SEP 26 | SEP 07<br>SEP 27<br>OCT 15 | SEP 26<br>OCT 14<br>NOV 03 | 109<br>142<br>190       | 81<br>119<br>160   | 53<br>40<br>130    | 53<br>40<br>25                    |  |
| ELGIN                | 36<br>32<br>28                | JUN 15<br>MAY 16<br>APR 24 | JUL 09<br>JUN 12<br>MAY 15 | AUG 01<br>JUL 08<br>JUN 04 | AUG 04<br>AUG 18<br>SEP 03 | AUG 20<br>SEP 04<br>SEP 19 | SEP 05<br>SEP 20<br>OCT 05 | 73<br>111<br>152        | 41<br>83<br>127    | 10<br>55<br>102    | 61<br>45<br>29                    |  |
| ELKTON 3 SW          | 36<br>32<br>28                | APR 17<br>MAR 15<br>JAN 01 | MAY 10<br>APR 10<br>FEB 16 | JUN 01<br>MAY 06<br>APR 03 | SEP 22<br>OCT 08<br>OCT 23 | OCT 17<br>NOV 05<br>DEC 09 | NOV 10<br>DEC 02<br>JAN 29 | 195<br>247<br>>365      | 159<br>208<br>288  | 124<br>168<br>231  | 22<br>9<br>3                      |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                    |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|--------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                    |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                 | 90                |                                   |  |
| OREGON                    |                               |                            |                            |                            |                            |                            |                            |                         |                    |                   |                                   |  |
| ENTERPRISE                | 36<br>32<br>28                | JUL 03<br>JUN 06<br>MAY 05 | JUL 17<br>JUN 30<br>MAY 31 | JUL 31<br>JUL 23<br>JUN 26 | JUL 31<br>AUG 09<br>AUG 30 | AUG 13<br>AUG 25<br>SEP 13 | AUG 27<br>SEP 11<br>SEP 27 | 47<br>91<br>133         | 26<br>56<br>104    | 5<br>20<br>76     | 71<br>59<br>45                    |  |
| ESTACADA 2 SE             | 36<br>32<br>28                | APR 29<br>MAR 22<br>JAN 27 | MAY 17<br>APR 13<br>FEB 28 | JUN 03<br>MAY 05<br>MAR 31 | SEP 25<br>OCT 15<br>NOV 01 | OCT 13<br>NOV 03<br>DEC 03 | OCT 31<br>NOV 22<br>JAN 05 | 173<br>230<br>321       | 149<br>203<br>275  | 124<br>177<br>234 | 27<br>13<br>5                     |  |
| EUGENE WSO                | 36<br>32<br>28                | APR 27<br>MAR 27<br>FEB 17 | MAY 19<br>APR 24<br>MAR 17 | JUN 10<br>MAY 22<br>APR 14 | SEP 15<br>OCT 01<br>OCT 19 | OCT 06<br>OCT 25<br>NOV 24 | OCT 26<br>NOV 17<br>DEC 31 | 167<br>215<br>293       | 139<br>183<br>249  | 111<br>151<br>208 | 28<br>14<br>6                     |  |
| FERN RIDGE DAM            | 36<br>32<br>28                | APR 27<br>MAR 31<br>JAN 30 | MAY 16<br>APR 23<br>MAR 01 | JUN 04<br>MAY 15<br>APR 01 | SEP 30<br>OCT 15<br>OCT 29 | OCT 17<br>NOV 06<br>NOV 30 | NOV 03<br>NOV 28<br>JAN 01 | 176<br>233<br>313       | 153<br>197<br>273  | 131<br>160<br>234 | 29<br>16<br>5                     |  |
| FOREST GROVE              | 36<br>32<br>28                | APR 25<br>APR 09<br>FEB 19 | MAY 19<br>APR 27<br>MAR 23 | JUN 13<br>MAY 15<br>APR 23 | SEP 13<br>SEP 30<br>OCT 20 | SEP 30<br>OCT 17<br>NOV 09 | OCT 18<br>NOV 03<br>NOV 29 | 164<br>198<br>269       | 133<br>172<br>231  | 102<br>146<br>193 | 30<br>17<br>7                     |  |
| FOSSIL                    | 36<br>32<br>28                | JUN 21<br>MAY 29<br>MAY 06 | JUL 12<br>JUN 23<br>MAY 26 | AUG 02<br>JUL 18<br>JUN 16 | AUG 05<br>AUG 19<br>SEP 07 | AUG 23<br>SEP 06<br>SEP 29 | SEP 11<br>SEP 25<br>OCT 22 | 74<br>111<br>155        | 41<br>75<br>125    | 8<br>39<br>96     | 60<br>44<br>29                    |  |
| GOLD BEACH RANGER STA     | 36<br>32<br>28                | MAR 30<br>JAN 20<br>-      | APR 27<br>MAR 02<br>DEC 17 | MAY 26<br>APR 12<br>MAR 03 | OCT 29<br>NOV 06<br>DEC 16 | NOV 17<br>DEC 10<br>-      | DEC 05<br>JAN 13<br>-      | 237<br>333<br>>365      | 202<br>280<br>>365 | 168<br>231<br>314 | 10<br>3<br>0                      |  |
| GRANTS PASS               | 36<br>32<br>28                | MAY 04<br>APR 15<br>MAR 06 | MAY 21<br>APR 30<br>APR 01 | JUN 08<br>MAY 14<br>APR 27 | SEP 18<br>SEP 26<br>OCT 24 | OCT 04<br>OCT 20<br>NOV 20 | OCT 20<br>NOV 13<br>DEC 18 | 159<br>203<br>273       | 135<br>173<br>233  | 110<br>142<br>192 | 31<br>18<br>7                     |  |
| GRIZZLY                   | 36<br>32<br>28                | JUN 29<br>JUN 07<br>MAY 16 | JUL 18<br>JUL 03<br>JUN 07 | AUG 06<br>JUL 29<br>JUN 30 | JUL 30<br>AUG 09<br>SEP 01 | AUG 12<br>AUG 30<br>SEP 23 | AUG 27<br>SEP 19<br>OCT 16 | 52<br>92<br>141         | 25<br>57<br>107    | 0<br>22<br>73     | 66<br>51<br>36                    |  |
| HALFWAY                   | 36<br>32<br>28                | JUN 11<br>MAY 20<br>MAY 02 | JUL 01<br>JUN 11<br>MAY 19 | JUL 22<br>JUL 03<br>JUN 06 | AUG 11<br>AUG 28<br>SEP 10 | AUG 26<br>SEP 10<br>SEP 25 | SEP 11<br>SEP 22<br>OCT 10 | 83<br>115<br>152        | 55<br>64<br>128    | 27<br>53<br>104   | 64<br>53<br>39                    |  |
| HART MOUNTAIN REFUGE      | 36<br>32<br>28                | JUL 07<br>JUN 20<br>MAY 28 | JUL 19<br>JUL 07<br>JUN 18 | JUL 30<br>JUL 24<br>JUL 09 | AUG 02<br>AUG 06<br>AUG 17 | AUG 15<br>AUG 22<br>SEP 06 | AUG 28<br>SEP 08<br>SEP 27 | 45<br>69<br>109         | 27<br>45<br>79     | 8<br>22<br>50     | 69<br>57<br>44                    |  |
| HEADWORKS PTLD WATER      | 36<br>32<br>28                | APR 21<br>MAR 20<br>JAN 12 | MAY 09<br>APR 11<br>FEB 20 | MAY 27<br>MAY 04<br>MAY 27 | SEP 26<br>OCT 22<br>NOV 06 | OCT 18<br>NOV 10<br>DEC 05 | NOV 10<br>NOV 29<br>JAN 05 | 192<br>245<br>349       | 161<br>212<br>287  | 130<br>179<br>238 | 28<br>13<br>4                     |  |
| HEPPNER                   | 36<br>32<br>28                | MAY 14<br>APR 24<br>MAR 30 | JUN 03<br>MAY 11<br>APR 18 | JUN 22<br>MAY 28<br>MAY 08 | SEP 08<br>SEP 21<br>OCT 02 | SEP 23<br>OCT 06<br>OCT 22 | OCT 09<br>OCT 21<br>NOV 12 | 137<br>171<br>215       | 112<br>148<br>186  | 86<br>124<br>157  | 44<br>31<br>18                    |  |
| HERMISTON 2 S             | 36<br>32<br>28                | APR 27<br>APR 09<br>MAR 26 | MAY 13<br>APR 25<br>APR 10 | MAY 29<br>MAY 10<br>APR 26 | SEP 10<br>SEP 23<br>OCT 03 | SEP 24<br>OCT 08<br>OCT 19 | OCT 08<br>OCT 23<br>NOV 04 | 153<br>188<br>214       | 133<br>166<br>191  | 114<br>143<br>168 | 41<br>30<br>18                    |  |
| HOOD RIVER EXP STATION    | 36<br>32<br>28                | MAY 03<br>APR 16<br>MAR 11 | MAY 23<br>MAY 05<br>APR 03 | JUN 12<br>MAY 23<br>APR 25 | SEP 08<br>SEP 24<br>OCT 09 | SEP 25<br>OCT 11<br>OCT 29 | OCT 13<br>OCT 28<br>NOV 17 | 151<br>184<br>237       | 124<br>158<br>209  | 97<br>132<br>180  | 40<br>26<br>12                    |  |
| HUNTINGTON                | 36<br>32<br>28                | APR 24<br>APR 13<br>MAR 24 | MAY 15<br>APR 30<br>APR 16 | JUN 05<br>MAY 17<br>MAY 08 | SEP 12<br>SEP 22<br>OCT 11 | SEP 28<br>OCT 09<br>OCT 23 | OCT 14<br>OCT 26<br>NOV 04 | 164<br>185<br>216       | 135<br>161<br>190  | 107<br>137<br>163 | 45<br>35<br>23                    |  |
| KENT                      | 36<br>32<br>28                | MAY 22<br>MAY 04<br>APR 17 | JUN 13<br>MAY 26<br>MAY 07 | JUL 05<br>JUN 17<br>MAY 27 | SEP 02<br>SEP 19<br>OCT 01 | SEP 17<br>OCT 07<br>OCT 21 | OCT 03<br>OCT 26<br>NOV 11 | 120<br>165<br>198       | 95<br>133<br>167   | 70<br>101<br>135  | 52<br>39<br>25                    |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| <b>OREGON</b>             |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| KLAMATH FALLS 2 SSW       | 36<br>32<br>28                | JUN 11<br>MAY 17<br>APR 26 | JUN 27<br>JUN 07<br>MAY 17 | JUL 13<br>JUN 28<br>JUN 07 | AUG 14<br>AUG 31<br>SEP 21 | SEP 07<br>SEP 22<br>OCT 09 | OCT 01<br>OCT 14<br>OCT 26 | 104<br>141<br>172       | 72<br>106<br>144  | 39<br>71<br>116   | 57<br>45<br>32                    |  |
| LA GRANDE                 | 36<br>32<br>28                | MAY 10<br>APR 23<br>MAR 30 | JUN 02<br>MAY 17<br>APR 23 | JUN 26<br>JUN 11<br>MAY 18 | AUG 26<br>SEP 09<br>SEP 24 | SEP 13<br>SEP 26<br>OCT 14 | OCT 01<br>OCT 12<br>NOV 04 | 134<br>162<br>211       | 102<br>130<br>173 | 69<br>98<br>136   | 48<br>36<br>22                    |  |
| LAKEVIEW                  | 36<br>32<br>28                | JUN 08<br>MAY 11<br>APR 26 | JUN 22<br>JUN 03<br>MAY 14 | JUL 07<br>JUN 26<br>JUN 02 | AUG 16<br>SEP 05<br>SEP 19 | SEP 01<br>SEP 22<br>OCT 04 | SEP 17<br>OCT 09<br>OCT 19 | 92<br>140<br>165        | 70<br>110<br>142  | 48<br>81<br>119   | 59<br>47<br>33                    |  |
| LEABURG 1 SW              | 36<br>32<br>28                | APR 25<br>MAR 31<br>JAN 19 | MAY 11<br>APR 17<br>FEB 22 | MAY 28<br>MAY 05<br>MAR 28 | SEP 26<br>OCT 11<br>NOV 08 | OCT 15<br>NOV 08<br>DEC 02 | NOV 03<br>DEC 06<br>DEC 25 | 180<br>237<br>322       | 156<br>204<br>282 | 133<br>172<br>241 | 28<br>14<br>4                     |  |
| MADRAS                    | 36<br>32<br>28                | JUN 08<br>MAY 21<br>MAY 04 | JUL 05<br>JUN 12<br>MAY 21 | AUG 01<br>JUL 04<br>JUN 07 | AUG 05<br>AUG 18<br>SEP 07 | AUG 23<br>SEP 06<br>SEP 25 | SEP 09<br>SEP 26<br>OCT 12 | 86<br>113<br>149        | 48<br>86<br>126   | 10<br>59<br>102   | 60<br>46<br>32                    |  |
| MALHEUR BRANCH EXP STA    | 36<br>32<br>28                | APR 28<br>APR 18<br>MAR 29 | MAY 19<br>MAY 06<br>APR 18 | JUN 10<br>MAY 24<br>MAY 09 | SEP 12<br>SEP 21<br>OCT 03 | SEP 25<br>OCT 04<br>OCT 17 | OCT 08<br>OCT 17<br>OCT 30 | 157<br>176<br>204       | 128<br>150<br>181 | 99<br>125<br>158  | 48<br>38<br>26                    |  |
| MALHEUR REFUGE HQ         | 36<br>32<br>28                | JUN 11<br>MAY 17<br>APR 29 | JUL 02<br>JUN 06<br>MAY 20 | JUL 23<br>JUN 25<br>JUN 10 | AUG 12<br>AUG 22<br>SEP 02 | AUG 25<br>SEP 05<br>SEP 19 | SEP 08<br>SEP 19<br>OCT 05 | 81<br>114<br>149        | 54<br>91<br>121   | 27<br>67<br>93    | 62<br>51<br>39                    |  |
| MARION FRKS FISH HATCH    | 36<br>32<br>28                | MAY 27<br>MAY 07<br>APR 12 | JUN 22<br>MAY 29<br>APR 29 | JUL 17<br>JUN 19<br>MAY 17 | AUG 19<br>SEP 04<br>SEP 29 | SEP 02<br>SEP 24<br>OCT 20 | SEP 17<br>OCT 15<br>NOV 10 | 99<br>150<br>197        | 72<br>118<br>173  | 45<br>85<br>148   | 59<br>45<br>21                    |  |
| MC MINNVILLE              | 36<br>32<br>28                | MAY 17<br>APR 16<br>MAR 08 | JUN 18<br>MAY 11<br>APR 08 | JUL 20<br>JUN 04<br>MAY 08 | AUG 18<br>SEP 08<br>OCT 11 | SEP 17<br>OCT 04<br>NOV 05 | OCT 17<br>OCT 31<br>DEC 01 | 141<br>189<br>254       | 90<br>146<br>211  | 40<br>102<br>168  | 33<br>18<br>7                     |  |
| METOLIUS 1 W              | 36<br>32<br>28                | JUN 15<br>MAY 23<br>MAY 09 | JUL 07<br>JUN 12<br>MAY 22 | JUL 29<br>JUL 03<br>JUN 03 | AUG 05<br>AUG 21<br>SEP 10 | AUG 20<br>SEP 08<br>SEP 28 | SEP 04<br>SEP 27<br>OCT 16 | 74<br>117<br>151        | 44<br>87<br>129   | 13<br>57<br>107   | 60<br>46<br>32                    |  |
| MIKKALO 6 W               | 36<br>32<br>28                | APR 27<br>APR 05<br>MAR 06 | MAY 16<br>MAY 19<br>MAR 31 | JUN 05<br>MAY 19<br>APR 26 | SEP 22<br>OCT 02<br>OCT 15 | OCT 09<br>OCT 21<br>NOV 06 | OCT 26<br>NOV 09<br>NOV 27 | 172<br>207<br>254       | 145<br>177<br>219 | 117<br>146<br>183 | 40<br>26<br>15                    |  |
| MILTON FREETWATER 4 NW    | 36<br>32<br>28                | APR 15<br>MAR 20<br>MAR 03 | MAY 01<br>APR 11<br>MAR 26 | MAY 18<br>MAY 03<br>APR 18 | SEP 17<br>SEP 24<br>OCT 08 | OCT 03<br>OCT 14<br>OCT 30 | OCT 18<br>NOV 03<br>NOV 20 | 178<br>217<br>249       | 153<br>186<br>217 | 129<br>154<br>185 | 32<br>21<br>12                    |  |
| MORO                      | 36<br>32<br>28                | MAY 11<br>APR 25<br>MAR 31 | JUN 04<br>MAY 15<br>APR 24 | JUN 27<br>JUN 05<br>MAY 17 | SEP 02<br>SEP 17<br>SEP 30 | SEP 18<br>OCT 04<br>OCT 18 | OCT 04<br>OCT 22<br>NOV 05 | 134<br>169<br>210       | 106<br>141<br>177 | 77<br>114<br>143  | 48<br>36<br>21                    |  |
| NEWPORT                   | 36<br>32<br>28                | APR 23<br>MAR 23<br>DEC 20 | MAY 12<br>APR 16<br>FEB 15 | MAY 30<br>MAY 10<br>APR 01 | SEP 27<br>OCT 18<br>NOV 07 | OCT 25<br>NOV 18<br>DEC 24 | NOV 21<br>DEC 19<br>-      | 200<br>259<br>>365      | 165<br>215<br>300 | 130<br>172<br>243 | 19<br>8<br>2                      |  |
| NORTH BEND FAA AP         | 36<br>32<br>28                | MAR 20<br>JAN 16<br>-      | APR 12<br>FEB 28<br>JAN 29 | MAY 06<br>APR 11<br>MAR 12 | OCT 05<br>OCT 30<br>NOV 18 | NOV 03<br>NOV 27<br>JAN 03 | DEC 02<br>DEC 25<br>-      | 244<br>312<br>>365      | 204<br>272<br>334 | 163<br>231<br>276 | 12<br>4<br>1                      |  |
| OCHOCO RANGER STATION     | 36<br>32<br>28                | JUL 13<br>JUN 26<br>MAY 24 | JUL 24<br>JUL 13<br>JUN 20 | AUG 03<br>AUG 01<br>AUG 20 | JUL 29<br>AUG 18<br>SEP 05 | AUG 07<br>SEP 04<br>SEP 21 | AUG 18<br>SEP 04<br>SEP 21 | 31<br>58<br>112         | 14<br>35<br>76    | 0<br>11<br>39     | 78<br>65<br>50                    |  |
| ONTARIO KSRV              | 36<br>32<br>28                | MAY 05<br>APR 19<br>APR 04 | MAY 26<br>MAY 12<br>APR 23 | JUN 15<br>JUN 03<br>MAY 12 | AUG 31<br>SEP 14<br>SEP 23 | SEP 14<br>SEP 28<br>OCT 09 | SEP 28<br>OCT 12<br>OCT 25 | 138<br>169<br>191       | 111<br>139<br>168 | 84<br>108<br>145  | 50<br>40<br>28                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY *<br>(4) |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|--------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                      |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                      |  |
| OREGON                    |                               |                         |        |        |                         |        |        |                         |     |     |                                      |  |
| OREGON CITY               | 36                            | APR 13                  | MAY 03 | MAY 22 | OCT 03                  | OCT 18 | NOV 03 | 195                     | 168 | 141 | 21                                   |  |
|                           | 32                            | MAR 16                  | APR 06 | APR 28 | OCT 18                  | NOV 06 | NOV 26 | 245                     | 213 | 182 | 11                                   |  |
|                           | 28                            | JAN 21                  | FEB 24 | MAR 30 | NOV 03                  | DEC 05 | JAN 05 | 323                     | 283 | 243 | 4                                    |  |
| OTIS 2 NE                 | 36                            | MAY 04                  | MAY 21 | JUN 06 | SEP 25                  | OCT 15 | NOV 05 | 167                     | 147 | 127 | 23                                   |  |
|                           | 32                            | APR 04                  | APR 22 | MAY 09 | OCT 22                  | NOV 09 | NOV 28 | 224                     | 201 | 177 | 12                                   |  |
|                           | 28                            | JAN 17                  | FEB 23 | MAR 28 | NOV 02                  | DEC 06 | JAN 13 | >365                    | 283 | 244 | 3                                    |  |
| OWYHEE DAM                | 36                            | APR 26                  | MAY 16 | JUN 06 | SEP 15                  | SEP 30 | OCT 14 | 163                     | 136 | 108 | 44                                   |  |
|                           | 32                            | APR 14                  | APR 29 | MAY 15 | SEP 25                  | OCT 10 | OCT 26 | 187                     | 163 | 139 | 33                                   |  |
|                           | 28                            | MAR 22                  | APR 10 | APR 29 | OCT 06                  | OCT 21 | NOV 05 | 217                     | 193 | 169 | 22                                   |  |
| PAISLEY                   | 36                            | JUN 12                  | JUN 29 | JUL 17 | AUG 12                  | AUG 30 | SEP 16 | 86                      | 61  | 35  | 56                                   |  |
|                           | 32                            | MAY 18                  | JUN 09 | JUL 01 | AUG 21                  | SEP 12 | OCT 04 | 125                     | 93  | 62  | 44                                   |  |
|                           | 28                            | MAY 01                  | MAY 18 | JUN 03 | SEP 13                  | SEP 30 | OCT 17 | 158                     | 134 | 110 | 32                                   |  |
| PENDLETON WSO             | 36                            | APR 20                  | MAY 06 | MAY 23 | SEP 22                  | OCT 07 | OCT 22 | 174                     | 153 | 132 | 35                                   |  |
|                           | 32                            | MAR 28                  | APR 15 | MAY 03 | OCT 05                  | OCT 21 | NOV 07 | 213                     | 188 | 164 | 23                                   |  |
|                           | 28                            | FEB 18                  | MAR 20 | APR 19 | OCT 18                  | NOV 11 | DEC 06 | 269                     | 236 | 202 | 12                                   |  |
| PORTLAND WSO              | 36                            | APR 12                  | APR 29 | MAY 15 | OCT 03                  | OCT 20 | NOV 07 | 201                     | 174 | 148 | 23                                   |  |
|                           | 32                            | MAR 11                  | APR 03 | APR 26 | OCT 18                  | NOV 07 | NOV 27 | 247                     | 217 | 187 | 12                                   |  |
|                           | 28                            | FEB 02                  | MAR 03 | APR 01 | NOV 01                  | NOV 30 | DEC 29 | 311                     | 271 | 231 | 5                                    |  |
| POWERS                    | 36                            | APR 29                  | MAY 18 | JUN 07 | SEP 18                  | OCT 13 | NOV 06 | 178                     | 147 | 116 | 25                                   |  |
|                           | 32                            | MAR 27                  | APR 18 | MAY 10 | OCT 06                  | OCT 30 | NOV 22 | 230                     | 194 | 158 | 13                                   |  |
|                           | 28                            | JAN 27                  | MAR 04 | APR 08 | NOV 02                  | NOV 27 | DEC 23 | 303                     | 268 | 233 | 4                                    |  |
| PRINEVILLE 4 NW           | 36                            | JUL 02                  | JUL 21 | AUG 09 | JUL 30                  | AUG 10 | AUG 22 | 43                      | 20  | 0   | 68                                   |  |
|                           | 32                            | JUN 09                  | JUL 02 | JUL 25 | AUG 06                  | AUG 23 | SEP 10 | 82                      | 52  | 22  | 54                                   |  |
|                           | 28                            | MAY 13                  | MAY 29 | JUN 14 | AUG 27                  | SEP 12 | SEP 27 | 129                     | 105 | 81  | 39                                   |  |
| PROSPECT 2 SH             | 36                            | JUN 20                  | JUL 06 | JUL 22 | AUG 02                  | AUG 26 | SEP 20 | 84                      | 51  | 17  | 54                                   |  |
|                           | 32                            | MAY 16                  | JUN 09 | JUL 03 | AUG 22                  | SEP 16 | OCT 12 | 137                     | 99  | 60  | 40                                   |  |
|                           | 28                            | APR 23                  | MAY 12 | MAY 31 | SEP 18                  | OCT 10 | OCT 31 | 176                     | 150 | 123 | 22                                   |  |
| REDMOND 2 W               | 36                            | JUN 16                  | JUL 08 | JUL 31 | AUG 03                  | AUG 20 | SEP 07 | 75                      | 42  | 10  | 60                                   |  |
|                           | 32                            | MAY 27                  | JUN 18 | JUL 09 | AUG 21                  | SEP 08 | SEP 27 | 115                     | 82  | 49  | 46                                   |  |
|                           | 28                            | MAY 03                  | MAY 25 | JUN 15 | SEP 11                  | SEP 28 | OCT 16 | 153                     | 126 | 99  | 33                                   |  |
| REDMOND FAA AP            | 36                            | JUN 16                  | JUL 09 | AUG 01 | AUG 01                  | AUG 18 | SEP 04 | 71                      | 39  | 8   | 62                                   |  |
|                           | 32                            | MAY 31                  | JUN 23 | JUL 17 | AUG 20                  | SEP 07 | SEP 25 | 108                     | 75  | 42  | 50                                   |  |
|                           | 28                            | MAY 06                  | MAY 29 | JUN 22 | SEP 06                  | SEP 26 | OCT 17 | 155                     | 119 | 84  | 36                                   |  |
| REEDSPORT                 | 36                            | APR 12                  | MAY 03 | MAY 24 | OCT 02                  | OCT 25 | NOV 16 | 208                     | 174 | 140 | 18                                   |  |
|                           | 32                            | MAR 05                  | APR 07 | MAY 10 | OCT 17                  | NOV 18 | DEC 20 | 271                     | 224 | 178 | 8                                    |  |
|                           | 28                            | JAN 07                  | FEB 21 | APR 04 | OCT 31                  | DEC 19 | FEB 19 | >365                    | 298 | 246 | 2                                    |  |
| RICHLAND                  | 36                            | MAY 20                  | JUN 07 | JUN 26 | AUG 28                  | SEP 11 | SEP 25 | 120                     | 95  | 70  | 56                                   |  |
|                           | 32                            | MAY 01                  | MAY 22 | JUN 12 | SEP 13                  | SEP 26 | OCT 08 | 149                     | 126 | 103 | 45                                   |  |
|                           | 28                            | APR 21                  | MAY 10 | MAY 29 | SEP 23                  | OCT 09 | OCT 26 | 177                     | 152 | 126 | 29                                   |  |
| RIDDLE 2 NNE              | 36                            | APR 30                  | MAY 16 | MAY 31 | SEP 19                  | OCT 08 | OCT 27 | 169                     | 145 | 121 | 27                                   |  |
|                           | 32                            | APR 03                  | APR 24 | MAY 15 | SEP 29                  | OCT 29 | NOV 28 | 229                     | 188 | 147 | 13                                   |  |
|                           | 28                            | JAN 31                  | MAR 11 | APR 18 | OCT 29                  | NOV 30 | DEC 31 | 305                     | 264 | 222 | 4                                    |  |
| ROSEBURG KQEN             | 36                            | APR 25                  | MAY 17 | JUN 08 | SEP 23                  | OCT 14 | NOV 04 | 181                     | 149 | 117 | 28                                   |  |
|                           | 32                            | MAR 26                  | APR 22 | MAY 19 | OCT 11                  | NOV 02 | NOV 25 | 229                     | 193 | 158 | 14                                   |  |
|                           | 28                            | FEB 03                  | MAR 10 | APR 14 | SEP 29                  | NOV 27 | DEC 26 | 309                     | 261 | 213 | 5                                    |  |
| ROUND GROVE               | 36                            | JUL 08                  | JUL 20 | AUG 01 | JUL 31                  | AUG 11 | AUG 21 | 39                      | 21  | 3   | 74                                   |  |
|                           | 32                            | JUN 20                  | JUL 08 | JUL 25 | AUG 07                  | AUG 22 | SEP 05 | 67                      | 44  | 20  | 61                                   |  |
|                           | 28                            | MAY 27                  | JUN 18 | JUL 10 | AUG 14                  | SEP 04 | SEP 26 | 105                     | 77  | 50  | 46                                   |  |
| SALEM WSO                 | 36                            | MAY 07                  | MAY 26 | JUN 13 | SEP 16                  | OCT 04 | OCT 22 | 154                     | 130 | 106 | 32                                   |  |
|                           | 32                            | APR 18                  | MAY 05 | MAY 22 | SEP 28                  | OCT 22 | NOV 14 | 200                     | 169 | 138 | 18                                   |  |
|                           | 28                            | MAR 02                  | APR 02 | MAY 02 | OCT 06                  | NOV 02 | NOV 29 | 259                     | 214 | 168 | 9                                    |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| OREGON                    |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| SEASIDE                   | 36                            | APR 19                  | MAY 11 | JUN 01 | SEP 26                  | OCT 17 | NOV 06 | 191                     | 158 | 126 | 19                                |  |
|                           | 32                            | MAR 26                  | APR 14 | MAY 02 | OCT 11                  | NOV 07 | DEC 04 | 240                     | 207 | 174 | 9                                 |  |
|                           | 28                            | JAN 17                  | FEB 23 | MAR 31 | OCT 26                  | DEC 04 | JAN 13 | 340                     | 280 | 233 | 3                                 |  |
| SENECA                    | 36                            | JUL 25                  | JUL 29 | AUG 02 | JUL 31                  | AUG 03 | AUG 07 | 11                      | 4   | 0   | 86                                |  |
|                           | 32                            | JUL 14                  | JUL 24 | AUG 04 | JUL 31                  | AUG 06 | AUG 14 | 25                      | 12  | 0   | 74                                |  |
|                           | 28                            | JUN 15                  | JUL 10 | AUG 03 | JUL 31                  | AUG 16 | SEP 01 | 70                      | 37  | 3   | 60                                |  |
| SEXTON SUMMIT WSO         | 36                            | MAY 27                  | JUN 14 | JUL 01 | SEP 19                  | OCT 04 | OCT 20 | 137                     | 112 | 88  | 43                                |  |
|                           | 32                            | MAY 13                  | MAY 26 | JUN 08 | SEP 27                  | OCT 22 | NOV 15 | 175                     | 148 | 122 | 30                                |  |
|                           | 28                            | APR 18                  | MAY 04 | MAY 21 | OCT 24                  | NOV 14 | DEC 05 | 222                     | 193 | 164 | 17                                |  |
| SILVER CREEK FALLS        | 36                            | MAY 23                  | JUN 21 | JUL 20 | AUG 14                  | SEP 04 | SEP 24 | 117                     | 74  | 31  | 46                                |  |
|                           | 32                            | APR 30                  | MAY 24 | JUN 17 | SEP 02                  | SEP 25 | OCT 19 | 160                     | 124 | 87  | 30                                |  |
|                           | 28                            | APR 06                  | APR 26 | MAY 16 | SEP 22                  | OCT 17 | NOV 11 | 208                     | 173 | 139 | 14                                |  |
| SQUAW BUTTE EXP STA       | 36                            | JUN 16                  | JUL 04 | JUL 22 | AUG 04                  | AUG 22 | SEP 10 | 79                      | 49  | 18  | 62                                |  |
|                           | 32                            | JUN 01                  | JUN 22 | JUL 13 | AUG 21                  | SEP 11 | OCT 02 | 109                     | 80  | 52  | 52                                |  |
|                           | 28                            | MAY 12                  | MAY 29 | JUN 15 | SEP 12                  | OCT 01 | OCT 20 | 151                     | 125 | 98  | 40                                |  |
| STAYTON                   | 36                            | APR 25                  | MAY 22 | JUN 18 | SEP 09                  | OCT 02 | OCT 24 | 173                     | 132 | 91  | 28                                |  |
|                           | 32                            | APR 04                  | APR 24 | MAY 13 | SEP 27                  | OCT 17 | NOV 05 | 203                     | 176 | 148 | 16                                |  |
|                           | 28                            | FEB 18                  | MAR 19 | APR 16 | OCT 24                  | NOV 17 | DEC 11 | 280                     | 243 | 205 | 7                                 |  |
| THREE LYNX                | 36                            | APR 24                  | MAY 13 | JUN 02 | SEP 19                  | OCT 09 | OCT 30 | 171                     | 148 | 125 | 38                                |  |
|                           | 32                            | MAR 30                  | APR 17 | MAY 05 | OCT 06                  | OCT 30 | NOV 22 | 226                     | 195 | 164 | 19                                |  |
|                           | 28                            | JAN 25                  | MAR 03 | APR 09 | OCT 31                  | DEC 03 | JAN 06 | 319                     | 275 | 230 | 6                                 |  |
| TILLAMOOK 1 W             | 36                            | MAY 14                  | JUN 13 | JUL 13 | AUG 23                  | SEP 17 | OCT 11 | 136                     | 95  | 54  | 27                                |  |
|                           | 32                            | APR 24                  | MAY 11 | MAY 28 | SEP 22                  | OCT 13 | NOV 03 | 182                     | 154 | 126 | 15                                |  |
|                           | 28                            | MAR 11                  | APR 08 | MAY 05 | OCT 12                  | NOV 11 | DEC 11 | 260                     | 216 | 173 | 6                                 |  |
| UNION                     | 36                            | MAY 24                  | JUN 18 | JUL 13 | AUG 19                  | SEP 03 | SEP 17 | 107                     | 76  | 45  | 53                                |  |
|                           | 32                            | MAY 05                  | MAY 24 | JUN 12 | SEP 02                  | SEP 17 | OCT 02 | 137                     | 116 | 94  | 39                                |  |
|                           | 28                            | APR 19                  | MAY 06 | MAY 24 | SEP 17                  | OCT 04 | OCT 21 | 179                     | 150 | 121 | 25                                |  |
| VALE                      | 36                            | MAY 06                  | MAY 28 | JUN 18 | AUG 31                  | SEP 15 | SEP 30 | 136                     | 109 | 83  | 52                                |  |
|                           | 32                            | APR 23                  | MAY 13 | JUN 02 | SEP 16                  | SEP 30 | OCT 13 | 164                     | 139 | 114 | 41                                |  |
|                           | 28                            | APR 09                  | APR 27 | MAY 15 | SEP 23                  | OCT 07 | OCT 22 | 186                     | 163 | 141 | 29                                |  |
| WICKIUP DAM               | 36                            | JUL 01                  | JUL 17 | AUG 01 | JUL 30                  | AUG 12 | AUG 26 | 51                      | 26  | 1   | 72                                |  |
|                           | 32                            | JUN 06                  | JUN 29 | JUL 22 | AUG 10                  | AUG 27 | SEP 13 | 90                      | 58  | 26  | 60                                |  |
|                           | 28                            | MAY 12                  | JUN 01 | JUN 21 | AUG 27                  | SEP 15 | OCT 05 | 134                     | 106 | 78  | 43                                |  |
| PENNSYLVANIA              |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| ALLEN TOWN WSO            | 36                            | APR 19                  | MAY 04 | MAY 19 | SEP 22                  | OCT 06 | OCT 20 | 179                     | 155 | 130 | 42                                |  |
|                           | 32                            | APR 06                  | APR 21 | MAY 05 | OCT 02                  | OCT 18 | NOV 02 | 203                     | 179 | 156 | 34                                |  |
|                           | 28                            | MAR 27                  | APR 07 | APR 17 | OCT 19                  | NOV 03 | NOV 17 | 226                     | 209 | 193 | 25                                |  |
| BAKERSTOWN 3 WNW          | 36                            | APR 29                  | MAY 18 | JUN 06 | SEP 20                  | SEP 30 | OCT 11 | 156                     | 135 | 113 | 42                                |  |
|                           | 32                            | APR 20                  | MAY 05 | MAY 19 | SEP 30                  | OCT 14 | OCT 28 | 181                     | 162 | 143 | 35                                |  |
|                           | 28                            | APR 05                  | APR 21 | MAY 07 | OCT 14                  | OCT 29 | NOV 14 | 211                     | 191 | 171 | 26                                |  |
| BRADFORD 4 W RES          | 36                            | MAY 30                  | JUN 22 | JUL 14 | AUG 12                  | AUG 31 | SEP 18 | 95                      | 69  | 44  | 56                                |  |
|                           | 32                            | MAY 16                  | JUN 02 | JUN 19 | SEP 06                  | SEP 20 | OCT 05 | 132                     | 110 | 87  | 49                                |  |
|                           | 28                            | MAY 03                  | MAY 18 | JUN 02 | SEP 16                  | OCT 05 | OCT 24 | 165                     | 140 | 114 | 39                                |  |
| BURGETTSTOWN 2 W          | 36                            | MAY 16                  | JUN 03 | JUN 21 | AUG 30                  | SEP 16 | OCT 03 | 126                     | 104 | 81  | 52                                |  |
|                           | 32                            | MAY 02                  | MAY 19 | JUN 04 | SEP 17                  | SEP 29 | OCT 10 | 152                     | 132 | 113 | 45                                |  |
|                           | 28                            | APR 23                  | MAY 07 | MAY 21 | SEP 25                  | OCT 10 | OCT 25 | 178                     | 155 | 133 | 35                                |  |
| CARLISLE                  | 36                            | APR 19                  | MAY 04 | MAY 19 | SEP 19                  | OCT 05 | OCT 21 | 177                     | 153 | 129 | 39                                |  |
|                           | 32                            | APR 06                  | APR 20 | MAY 04 | OCT 04                  | OCT 20 | NOV 05 | 206                     | 182 | 157 | 32                                |  |
|                           | 28                            | MAR 23                  | APR 05 | APR 19 | OCT 17                  | OCT 31 | NOV 15 | 228                     | 208 | 189 | 23                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                 |  |
| PENNSYLVANIA              |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| CHAMBERSBURG 1 ESE        | 36<br>32<br>28                | APR 25<br>APR 10<br>APR 01 | MAY 10<br>APR 27<br>APR 15 | MAY 24<br>MAY 14<br>APR 30 | SEP 16<br>SEP 27<br>OCT 08 | SEP 30<br>OCT 14<br>OCT 25 | OCT 14<br>OCT 31<br>NOV 11 | 162<br>198<br>216       | 142<br>169<br>192 | 123<br>140<br>167 | 43<br>34<br>25                  |  |
| CLARION 3 SW              | 36<br>32<br>28                | MAY 17<br>MAY 07<br>APR 26 | JUN 08<br>MAY 23<br>MAY 14 | JUL 01<br>JUN 07<br>MAY 31 | AUG 28<br>SEP 13<br>SEP 28 | SEP 15<br>SEP 29<br>OCT 13 | OCT 02<br>OCT 15<br>OCT 28 | 126<br>152<br>176       | 98<br>129<br>151  | 69<br>105<br>127  | 52<br>45<br>36                  |  |
| COATESVILLE 1 SW          | 36<br>32<br>28                | APR 26<br>APR 10<br>APR 01 | MAY 08<br>APR 26<br>APR 14 | MAY 21<br>MAY 12<br>APR 27 | SEP 20<br>SEP 27<br>OCT 13 | OCT 04<br>OCT 12<br>OCT 29 | OCT 18<br>OCT 26<br>NOV 13 | 167<br>195<br>219       | 148<br>168<br>197 | 129<br>142<br>175 | 44<br>37<br>28                  |  |
| CONFLUENCE 1 SW DAM       | 36<br>32<br>28                | MAY 08<br>APR 26<br>APR 14 | MAY 22<br>MAY 12<br>APR 26 | JUN 06<br>MAY 29<br>MAY 09 | SEP 14<br>SEP 25<br>OCT 05 | SEP 27<br>OCT 08<br>OCT 19 | OCT 10<br>OCT 22<br>NOV 03 | 147<br>170<br>195       | 127<br>149<br>175 | 108<br>127<br>155 | 49<br>41<br>32                  |  |
| CORRY                     | 36<br>32<br>28                | MAY 18<br>MAY 09<br>APR 18 | JUN 05<br>MAY 24<br>MAY 06 | JUN 24<br>JUN 08<br>MAY 23 | SEP 02<br>SEP 14<br>SEP 27 | SEP 15<br>SEP 28<br>OCT 14 | SEP 29<br>OCT 12<br>NOV 01 | 120<br>146<br>186       | 101<br>127<br>161 | 82<br>108<br>135  | 50<br>42<br>32                  |  |
| DEVAUULT 1 W              | 36<br>32<br>28                | APR 18<br>APR 02<br>MAR 22 | MAY 04<br>APR 23<br>APR 10 | MAY 21<br>MAY 14<br>APR 29 | SEP 22<br>OCT 02<br>OCT 11 | OCT 08<br>OCT 20<br>OCT 31 | OCT 23<br>NOV 08<br>NOV 21 | 183<br>209<br>235       | 156<br>180<br>204 | 128<br>151<br>172 | 42<br>34<br>26                  |  |
| DONEGAL                   | 36<br>32<br>28                | MAY 15<br>MAY 06<br>APR 19 | JUN 07<br>MAY 22<br>MAY 08 | JUN 30<br>JUN 07<br>MAY 26 | AUG 17<br>SEP 10<br>SEP 15 | SEP 07<br>SEP 28<br>OCT 07 | SEP 29<br>OCT 15<br>OCT 28 | 127<br>153<br>184       | 91<br>128<br>151  | 56<br>103<br>119  | 51<br>44<br>36                  |  |
| DONORA 1 SW               | 36<br>32<br>28                | APR 19<br>APR 14<br>APR 02 | MAY 09<br>APR 29<br>APR 17 | MAY 30<br>MAY 14<br>MAY 01 | SEP 21<br>OCT 04<br>OCT 15 | OCT 04<br>OCT 20<br>NOV 01 | OCT 16<br>NOV 05<br>NOV 18 | 171<br>197<br>219       | 147<br>173<br>198 | 122<br>150<br>177 | 39<br>32<br>23                  |  |
| DREXEL UNIVERSITY         | 36<br>32<br>28                | APR 02<br>MAR 22<br>MAR 06 | APR 15<br>APR 03<br>APR 22 | APR 28<br>APR 14<br>APR 07 | OCT 15<br>OCT 28<br>NOV 14 | OCT 29<br>NOV 13<br>NOV 27 | NOV 11<br>NOV 29<br>DEC 11 | 214<br>246<br>271       | 196<br>224<br>250 | 178<br>201<br>228 | 29<br>21<br>14                  |  |
| EPHRATA                   | 36<br>32<br>28                | APR 19<br>APR 02<br>MAR 26 | MAY 03<br>APR 17<br>APR 06 | MAY 17<br>MAY 01<br>APR 17 | SEP 25<br>OCT 06<br>OCT 23 | OCT 09<br>OCT 21<br>NOV 05 | OCT 24<br>NOV 06<br>NOV 18 | 182<br>210<br>227       | 159<br>187<br>212 | 136<br>164<br>197 | 39<br>31<br>22                  |  |
| EVERETT 1 SW              | 36<br>32<br>28                | MAY 05<br>APR 16<br>APR 02 | MAY 20<br>MAY 05<br>APR 21 | JUN 04<br>MAY 24<br>MAY 11 | SEP 12<br>SEP 19<br>SEP 30 | SEP 27<br>OCT 06<br>OCT 18 | OCT 13<br>OCT 23<br>NOV 04 | 152<br>177<br>207       | 129<br>153<br>179 | 106<br>128<br>151 | 46<br>38<br>29                  |  |
| FARRELL SHARON            | 36<br>32<br>28                | APR 29<br>APR 17<br>MAR 26 | MAY 19<br>MAY 05<br>APR 19 | JUN 07<br>MAY 23<br>MAY 12 | SEP 17<br>SEP 23<br>OCT 10 | OCT 03<br>OCT 15<br>OCT 29 | OCT 19<br>NOV 06<br>NOV 17 | 163<br>191<br>229       | 137<br>163<br>193 | 110<br>134<br>157 | 42<br>34<br>25                  |  |
| FORD CITY 4 S DAM         | 36<br>32<br>28                | MAY 07<br>APR 29<br>APR 16 | MAY 23<br>MAY 10<br>APR 29 | JUN 07<br>MAY 20<br>MAY 12 | SEP 11<br>SEP 25<br>OCT 03 | SEP 26<br>OCT 10<br>OCT 22 | OCT 11<br>OCT 24<br>NOV 09 | 146<br>172<br>196       | 126<br>152<br>175 | 105<br>132<br>155 | 49<br>41<br>32                  |  |
| FRANKLIN                  | 36<br>32<br>28                | MAY 10<br>APR 24<br>APR 09 | MAY 25<br>MAY 09<br>APR 25 | JUN 08<br>MAY 24<br>MAY 11 | SEP 12<br>SEP 26<br>OCT 06 | SEP 25<br>OCT 11<br>OCT 25 | OCT 08<br>OCT 26<br>NOV 12 | 140<br>175<br>201       | 123<br>154<br>182 | 106<br>133<br>163 | 49<br>40<br>30                  |  |
| FREELAND                  | 36<br>32<br>28                | MAY 01<br>APR 24<br>APR 07 | MAY 20<br>MAY 07<br>APR 22 | JUN 08<br>MAY 21<br>MAY 07 | SEP 17<br>SEP 24<br>OCT 07 | SEP 29<br>OCT 08<br>OCT 23 | OCT 11<br>OCT 21<br>NOV 08 | 151<br>173<br>202       | 132<br>153<br>183 | 112<br>132<br>164 | 47<br>41<br>32                  |  |
| GETTYSBURG                | 36<br>32<br>28                | APR 17<br>APR 05<br>MAR 25 | MAY 03<br>APR 19<br>APR 05 | MAY 19<br>MAY 04<br>APR 17 | SEP 23<br>SEP 29<br>OCT 16 | OCT 07<br>OCT 17<br>OCT 31 | OCT 21<br>NOV 03<br>NOV 15 | 180<br>205<br>227       | 156<br>180<br>208 | 133<br>154<br>188 | 40<br>32<br>23                  |  |
| GREENVILLE                | 36<br>32<br>28                | MAY 14<br>APR 29<br>APR 16 | MAY 27<br>MAY 17<br>MAY 01 | JUN 09<br>JUN 03<br>MAY 16 | SEP 03<br>SEP 16<br>OCT 04 | SEP 19<br>OCT 02<br>OCT 18 | OCT 05<br>OCT 18<br>NOV 02 | 134<br>164<br>191       | 115<br>138<br>170 | 95<br>112<br>148  | 47<br>39<br>29                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| PENNSYLVANIA              |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| HANOVER                   | 36                            | APR 19                  | MAY 04 | MAY 18 | SEP 26                  | OCT 09 | OCT 22 | 178                     | 158 | 138 | 41                                |  |
|                           | 32                            | APR 03                  | APR 18 | MAY 03 | SEP 30                  | OCT 19 | NOV 06 | 208                     | 183 | 157 | 33                                |  |
|                           | 28                            | MAR 26                  | APR 07 | APR 19 | OCT 16                  | OCT 31 | NOV 16 | 226                     | 206 | 186 | 24                                |  |
| HOLTHOOD                  | 36                            | APR 05                  | APR 19 | MAY 03 | OCT 11                  | OCT 25 | NOV 07 | 208                     | 188 | 167 | 36                                |  |
|                           | 32                            | MAR 26                  | APR 08 | APR 21 | OCT 22                  | NOV 04 | NOV 17 | 230                     | 210 | 189 | 27                                |  |
|                           | 28                            | MAR 12                  | MAR 25 | APR 06 | NOV 03                  | NOV 18 | DEC 02 | 255                     | 237 | 219 | 18                                |  |
| INDIANA 3 SE              | 36                            | MAY 13                  | MAY 29 | JUN 14 | SEP 10                  | SEP 23 | OCT 06 | 139                     | 117 | 94  | 47                                |  |
|                           | 32                            | APR 30                  | MAY 14 | MAY 28 | SEP 18                  | OCT 04 | OCT 20 | 164                     | 142 | 121 | 40                                |  |
|                           | 28                            | APR 17                  | MAY 01 | MAY 15 | SEP 27                  | OCT 15 | NOV 02 | 190                     | 166 | 143 | 30                                |  |
| JAMESTOWN 2 NW            | 36                            | MAY 14                  | MAY 31 | JUN 18 | SEP 06                  | SEP 21 | OCT 05 | 131                     | 111 | 92  | 50                                |  |
|                           | 32                            | MAY 03                  | MAY 18 | JUN 02 | SEP 17                  | SEP 29 | OCT 12 | 153                     | 134 | 114 | 43                                |  |
|                           | 28                            | APR 17                  | MAY 01 | MAY 15 | OCT 04                  | OCT 18 | NOV 02 | 191                     | 170 | 149 | 33                                |  |
| JOHNSTOWN                 | 36                            | APR 28                  | MAY 12 | MAY 26 | SEP 16                  | OCT 03 | OCT 19 | 169                     | 143 | 117 | 43                                |  |
|                           | 32                            | APR 11                  | APR 27 | MAY 14 | SEP 26                  | OCT 14 | NOV 01 | 196                     | 169 | 142 | 35                                |  |
|                           | 28                            | MAR 30                  | APR 12 | APR 25 | OCT 08                  | OCT 27 | NOV 16 | 223                     | 198 | 172 | 26                                |  |
| KANE 1 NNE                | 36                            | JUN 08                  | JUN 30 | JUL 21 | AUG 01                  | AUG 21 | SEP 09 | 83                      | 51  | 20  | 59                                |  |
|                           | 32                            | MAY 19                  | JUN 08 | JUN 27 | AUG 27                  | SEP 12 | SEP 29 | 123                     | 96  | 68  | 51                                |  |
|                           | 28                            | MAY 08                  | MAY 22 | JUN 06 | SEP 17                  | SEP 29 | OCT 12 | 149                     | 129 | 109 | 40                                |  |
| LANDISVILLE 2 NW          | 36                            | APR 24                  | MAY 12 | MAY 29 | SEP 14                  | SEP 28 | OCT 11 | 164                     | 138 | 112 | 44                                |  |
|                           | 32                            | APR 15                  | APR 30 | MAY 15 | SEP 22                  | OCT 10 | OCT 29 | 190                     | 162 | 134 | 36                                |  |
|                           | 28                            | MAR 31                  | APR 16 | MAY 02 | OCT 05                  | OCT 22 | NOV 09 | 216                     | 188 | 160 | 27                                |  |
| LEWISTOWN                 | 36                            | APR 24                  | MAY 07 | MAY 20 | SEP 22                  | OCT 05 | OCT 18 | 167                     | 150 | 132 | 44                                |  |
|                           | 32                            | APR 09                  | APR 26 | MAY 13 | SEP 28                  | OCT 14 | OCT 31 | 196                     | 171 | 145 | 36                                |  |
|                           | 28                            | MAR 31                  | APR 12 | APR 24 | OCT 14                  | OCT 30 | NOV 16 | 222                     | 201 | 179 | 27                                |  |
| MADERA                    | 36                            | MAY 20                  | JUN 11 | JUL 02 | AUG 29                  | SEP 13 | SEP 27 | 121                     | 93  | 65  | 56                                |  |
|                           | 32                            | MAY 10                  | MAY 27 | JUN 13 | SEP 08                  | SEP 24 | OCT 10 | 143                     | 119 | 95  | 49                                |  |
|                           | 28                            | APR 25                  | MAY 11 | MAY 26 | SEP 19                  | OCT 05 | OCT 20 | 168                     | 146 | 125 | 40                                |  |
| MARCUS HOOK               | 36                            | APR 01                  | APR 13 | APR 25 | OCT 17                  | NOV 03 | NOV 19 | 221                     | 203 | 184 | 29                                |  |
|                           | 32                            | MAR 17                  | MAR 30 | APR 12 | OCT 26                  | NOV 10 | NOV 25 | 245                     | 224 | 203 | 21                                |  |
|                           | 28                            | MAR 03                  | MAR 19 | APR 05 | NOV 16                  | NOV 29 | DEC 13 | 278                     | 255 | 231 | 14                                |  |
| MEADVILLE 1 S             | 36                            | MAY 15                  | MAY 27 | JUN 08 | SEP 11                  | SEP 23 | OCT 06 | 133                     | 119 | 105 | 50                                |  |
|                           | 32                            | APR 30                  | MAY 15 | MAY 29 | SEP 24                  | OCT 09 | OCT 25 | 168                     | 147 | 126 | 42                                |  |
|                           | 28                            | APR 15                  | APR 30 | MAY 14 | OCT 04                  | OCT 20 | NOV 06 | 192                     | 173 | 154 | 32                                |  |
| MONTGOMERY L AND D        | 36                            | APR 26                  | MAY 14 | JUN 01 | SEP 23                  | OCT 08 | OCT 23 | 171                     | 146 | 121 | 41                                |  |
|                           | 32                            | APR 14                  | APR 29 | MAY 14 | OCT 03                  | OCT 20 | NOV 05 | 198                     | 173 | 148 | 33                                |  |
|                           | 28                            | APR 03                  | APR 21 | MAY 09 | OCT 17                  | NOV 02 | NOV 19 | 221                     | 195 | 168 | 24                                |  |
| MONTROSE                  | 36                            | MAY 10                  | MAY 25 | JUN 09 | SEP 09                  | SEP 21 | OCT 04 | 138                     | 119 | 99  | 52                                |  |
|                           | 32                            | APR 29                  | MAY 14 | MAY 28 | SEP 16                  | OCT 01 | OCT 16 | 161                     | 140 | 118 | 45                                |  |
|                           | 28                            | APR 10                  | APR 28 | MAY 15 | SEP 28                  | OCT 13 | OCT 29 | 193                     | 168 | 143 | 37                                |  |
| MORGANTOWN                | 36                            | APR 29                  | MAY 11 | MAY 23 | SEP 21                  | OCT 04 | OCT 16 | 163                     | 145 | 127 | 43                                |  |
|                           | 32                            | APR 11                  | APR 27 | MAY 12 | SEP 26                  | OCT 14 | NOV 01 | 197                     | 170 | 143 | 35                                |  |
|                           | 28                            | MAR 31                  | APR 14 | APR 27 | OCT 12                  | OCT 28 | NOV 12 | 219                     | 196 | 174 | 27                                |  |
| NEW CASTLE 1 N            | 36                            | MAY 12                  | MAY 25 | JUN 08 | SEP 11                  | SEP 25 | OCT 08 | 139                     | 122 | 105 | 46                                |  |
|                           | 32                            | APR 30                  | MAY 16 | MAY 31 | SEP 22                  | OCT 06 | OCT 19 | 165                     | 143 | 120 | 38                                |  |
|                           | 28                            | APR 16                  | MAY 01 | MAY 16 | OCT 05                  | OCT 21 | NOV 05 | 192                     | 172 | 151 | 29                                |  |
| NEWELL                    | 36                            | APR 23                  | MAY 11 | MAY 29 | SEP 21                  | OCT 09 | OCT 26 | 173                     | 150 | 126 | 39                                |  |
|                           | 32                            | APR 12                  | APR 29 | MAY 17 | OCT 07                  | OCT 23 | NOV 08 | 201                     | 176 | 151 | 30                                |  |
|                           | 28                            | MAR 31                  | APR 15 | APR 30 | OCT 18                  | NOV 02 | NOV 17 | 220                     | 201 | 181 | 21                                |  |
| NEWPORT                   | 36                            | APR 27                  | MAY 09 | MAY 21 | SEP 20                  | OCT 04 | OCT 19 | 164                     | 147 | 131 | 45                                |  |
|                           | 32                            | APR 13                  | APR 29 | MAY 15 | SEP 29                  | OCT 17 | NOV 03 | 196                     | 170 | 144 | 37                                |  |
|                           | 28                            | APR 03                  | APR 12 | APR 22 | OCT 14                  | OCT 28 | NOV 11 | 215                     | 198 | 181 | 28                                |  |

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                 |  |
| PENNSYLVANIA              |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| PALMERTON                 | 36<br>32<br>28                | MAY 03<br>APR 15<br>MAR 28 | MAY 15<br>MAY 03<br>APR 14 | MAY 26<br>MAY 20<br>MAY 01 | SEP 16<br>SEP 23<br>OCT 03 | SEP 28<br>OCT 08<br>OCT 23 | OCT 09<br>OCT 22<br>NOV 12 | 155<br>184<br>217       | 135<br>157<br>191 | 116<br>131<br>165 | 44<br>36<br>26                  |  |
| PHILIPSBURG FAA AP        | 36<br>32<br>28                | MAY 25<br>MAY 13<br>APR 27 | JUN 21<br>MAY 27<br>MAY 13 | JUL 18<br>JUN 10<br>MAY 29 | AUG 12<br>AUG 25<br>SEP 15 | AUG 30<br>SEP 11<br>OCT 06 | SEP 17<br>SEP 28<br>OCT 27 | 106<br>125<br>175       | 69<br>106<br>145  | 32<br>87<br>115   | 52<br>45<br>35                  |  |
| PHOENIXVILLE 1 E          | 36<br>32<br>28                | APR 26<br>APR 13<br>MAR 27 | MAY 10<br>APR 29<br>APR 13 | MAY 23<br>MAY 15<br>APR 29 | SEP 15<br>SEP 30<br>OCT 09 | OCT 02<br>OCT 15<br>OCT 26 | OCT 19<br>OCT 29<br>NOV 12 | 168<br>194<br>220       | 144<br>168<br>196 | 121<br>141<br>172 | 42<br>34<br>25                  |  |
| PLEASANT MOUNT 1 W        | 36<br>32<br>28                | MAY 18<br>MAY 09<br>APR 26 | JUN 06<br>MAY 24<br>MAY 08 | JUN 24<br>JUN 07<br>MAY 20 | AUG 29<br>SEP 11<br>SEP 18 | SEP 11<br>SEP 22<br>OCT 05 | SEP 24<br>OCT 03<br>OCT 22 | 121<br>138<br>170       | 97<br>121<br>149  | 72<br>103<br>128  | 57<br>50<br>41                  |  |
| PUTNEYVILLE 2 SE DAM      | 36<br>32<br>28                | MAY 17<br>APR 29<br>APR 18 | JUN 04<br>MAY 18<br>MAY 05 | JUN 22<br>JUN 07<br>MAY 21 | SEP 07<br>SEP 13<br>SEP 26 | SEP 19<br>SEP 30<br>OCT 13 | OCT 01<br>OCT 16<br>OCT 30 | 126<br>160<br>186       | 106<br>134<br>160 | 86<br>108<br>135  | 51<br>44<br>36                  |  |
| RIDGWAY                   | 36<br>32<br>28                | MAY 22<br>MAY 10<br>APR 28 | JUN 07<br>MAY 24<br>MAY 10 | JUN 23<br>JUN 07<br>MAY 22 | SEP 04<br>SEP 13<br>SEP 26 | SEP 16<br>SEP 27<br>OCT 12 | SEP 27<br>OCT 10<br>OCT 27 | 116<br>144<br>172       | 100<br>125<br>154 | 84<br>106<br>136  | 55<br>46<br>36                  |  |
| SHIPPENSBURG              | 36<br>32<br>28                | APR 24<br>APR 07<br>MAR 28 | MAY 06<br>APR 23<br>APR 11 | MAY 19<br>MAY 09<br>APR 25 | SEP 18<br>SEP 29<br>OCT 17 | OCT 04<br>OCT 17<br>OCT 31 | OCT 19<br>NOV 04<br>NOV 14 | 170<br>204<br>224       | 150<br>176<br>202 | 130<br>148<br>180 | 41<br>33<br>23                  |  |
| SLIPPERY ROCK 1 SSW       | 36<br>32<br>28                | MAY 07<br>APR 22<br>APR 09 | MAY 26<br>MAY 14<br>APR 25 | JUN 14<br>JUN 04<br>MAY 11 | SEP 04<br>SEP 22<br>OCT 01 | SEP 23<br>OCT 08<br>OCT 19 | OCT 12<br>OCT 24<br>NOV 07 | 148<br>173<br>203       | 119<br>146<br>176 | 89<br>120<br>149  | 47<br>40<br>31                  |  |
| STATE COLLEGE             | 36<br>32<br>28                | APR 23<br>APR 12<br>MAR 29 | MAY 08<br>APR 27<br>APR 11 | MAY 23<br>MAY 13<br>APR 24 | SEP 20<br>SEP 29<br>OCT 14 | OCT 04<br>OCT 15<br>OCT 31 | OCT 19<br>OCT 31<br>NOV 17 | 172<br>193<br>224       | 149<br>170<br>202 | 126<br>147<br>180 | 43<br>36<br>27                  |  |
| STROUDSBURG               | 36<br>32<br>28                | MAY 05<br>APR 28<br>APR 06 | MAY 27<br>MAY 13<br>APR 23 | JUN 19<br>MAY 29<br>MAY 10 | SEP 03<br>SEP 13<br>SEP 28 | SEP 19<br>SEP 30<br>OCT 14 | OCT 05<br>OCT 17<br>OCT 30 | 148<br>167<br>201       | 114<br>139<br>173 | 80<br>111<br>144  | 48<br>41<br>31                  |  |
| TIONESTA 2 SE DAM         | 36<br>32<br>28                | MAY 14<br>MAY 01<br>APR 16 | MAY 27<br>MAY 14<br>MAY 02 | JUN 10<br>MAY 27<br>MAY 17 | SEP 12<br>SEP 21<br>OCT 06 | SEP 26<br>OCT 07<br>OCT 21 | OCT 11<br>OCT 23<br>NOV 04 | 139<br>168<br>192       | 121<br>145<br>171 | 103<br>123<br>150 | 52<br>44<br>35                  |  |
| TOWANDA 1 ESE             | 36<br>32<br>28                | MAY 11<br>MAY 01<br>APR 13 | MAY 23<br>MAY 12<br>APR 29 | JUN 04<br>MAY 24<br>MAY 14 | SEP 11<br>SEP 20<br>SEP 30 | SEP 24<br>OCT 06<br>OCT 16 | OCT 07<br>OCT 21<br>NOV 01 | 143<br>166<br>194       | 123<br>146<br>170 | 103<br>126<br>145 | 48<br>41<br>31                  |  |
| UNIONTOWN 1 NE            | 36<br>32<br>28                | APR 25<br>APR 15<br>APR 08 | MAY 14<br>MAY 01<br>APR 22 | JUN 03<br>MAY 16<br>MAY 05 | SEP 19<br>SEP 28<br>OCT 11 | OCT 01<br>OCT 11<br>OCT 25 | OCT 14<br>185<br>NOV 08    | 163<br>185<br>206       | 139<br>162<br>186 | 116<br>139<br>166 | 40<br>33<br>24                  |  |
| WARREN                    | 36<br>32<br>28                | MAY 14<br>MAY 01<br>APR 18 | MAY 28<br>MAY 16<br>MAY 03 | JUN 11<br>MAY 31<br>MAY 19 | SEP 10<br>SEP 21<br>SEP 27 | SEP 23<br>OCT 07<br>OCT 14 | OCT 05<br>OCT 22<br>NOV 01 | 135<br>163<br>186       | 117<br>143<br>163 | 99<br>123<br>140  | 49<br>41<br>32                  |  |
| WAYNESBURG 1 E            | 36<br>32<br>28                | MAY 08<br>APR 24<br>APR 15 | MAY 23<br>MAY 10<br>MAY 28 | JUN 07<br>MAY 26<br>MAY 11 | SEP 12<br>SEP 20<br>SEP 25 | SEP 24<br>OCT 03<br>OCT 13 | OCT 06<br>OCT 15<br>NOV 01 | 144<br>165<br>193       | 123<br>144<br>168 | 103<br>124<br>143 | 48<br>40<br>31                  |  |
| WELLSBORO 3 S             | 36<br>32<br>28                | MAY 12<br>APR 28<br>APR 16 | MAY 27<br>MAY 11<br>MAY 02 | JUN 10<br>MAY 24<br>MAY 18 | SEP 08<br>SEP 15<br>SEP 27 | SEP 20<br>OCT 01<br>OCT 12 | OCT 03<br>OCT 17<br>OCT 27 | 136<br>164<br>188       | 116<br>142<br>163 | 96<br>121<br>138  | 52<br>44<br>36                  |  |
| WEST CHESTER 1 W          | 36<br>32<br>28                | APR 12<br>APR 04<br>MAR 25 | MAY 01<br>APR 19<br>APR 07 | MAY 21<br>MAY 05<br>APR 20 | SEP 23<br>OCT 01<br>OCT 16 | OCT 06<br>OCT 17<br>NOV 01 | OCT 20<br>NOV 01<br>NOV 17 | 183<br>206<br>230       | 157<br>180<br>207 | 132<br>154<br>185 | 40<br>32<br>23                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|-----|-----|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |     |     |                                   |  |
|                           |                               | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50  | 90  |                                   |  |
| PENNSYLVANIA              |                               |                            |        |        |                            |        |        |                            |     |     |                                   |  |
| WILLIAMSPORT WSO          | 36                            | APR 30                     | MAY 11 | MAY 21 | SEP 19                     | OCT 04 | OCT 19 | 163                        | 146 | 128 | 44                                |  |
|                           | 32                            | APR 11                     | APR 29 | MAY 16 | SEP 30                     | OCT 15 | OCT 30 | 194                        | 168 | 143 | 35                                |  |
|                           | 28                            | APR 01                     | APR 12 | APR 22 | OCT 15                     | OCT 31 | NOV 15 | 220                        | 201 | 183 | 26                                |  |
| YORK 3 SSW PUMP STA       | 36                            | APR 29                     | MAY 13 | MAY 27 | SEP 18                     | SEP 29 | OCT 11 | 155                        | 139 | 123 | 42                                |  |
|                           | 32                            | APR 18                     | MAY 03 | MAY 18 | SEP 25                     | OCT 09 | OCT 22 | 182                        | 158 | 135 | 34                                |  |
|                           | 28                            | APR 02                     | APR 17 | MAY 02 | OCT 09                     | OCT 24 | NOV 08 | 211                        | 189 | 167 | 25                                |  |
| RHODE ISLAND              |                               |                            |        |        |                            |        |        |                            |     |     |                                   |  |
| BLOCK ISLAND WSO          | 36                            | APR 10                     | APR 24 | MAY 09 | OCT 13                     | OCT 27 | NOV 09 | 206                        | 185 | 163 | 34                                |  |
|                           | 32                            | MAR 31                     | APR 10 | APR 20 | OCT 29                     | NOV 11 | NOV 24 | 233                        | 214 | 195 | 24                                |  |
|                           | 28                            | MAR 12                     | MAR 27 | APR 10 | NOV 10                     | NOV 23 | DEC 06 | 262                        | 241 | 219 | 17                                |  |
| KINGSTON                  | 36                            | MAY 07                     | MAY 22 | JUN 05 | SEP 08                     | SEP 20 | OCT 01 | 138                        | 120 | 102 | 46                                |  |
|                           | 32                            | APR 23                     | MAY 08 | MAY 23 | SEP 17                     | SEP 30 | OCT 13 | 165                        | 144 | 123 | 38                                |  |
|                           | 28                            | APR 08                     | APR 23 | MAY 07 | OCT 02                     | OCT 15 | OCT 27 | 193                        | 174 | 156 | 29                                |  |
| SOUTH CAROLINA            |                               |                            |        |        |                            |        |        |                            |     |     |                                   |  |
| AIKEN                     | 36                            | MAR 21                     | APR 05 | APR 20 | OCT 15                     | OCT 28 | NOV 10 | 228                        | 205 | 182 | 19                                |  |
|                           | 32                            | MAR 14                     | MAR 26 | APR 08 | OCT 25                     | NOV 09 | NOV 23 | 245                        | 226 | 207 | 13                                |  |
|                           | 28                            | FEB 18                     | MAR 09 | MAR 29 | NOV 02                     | NOV 19 | DEC 07 | 280                        | 254 | 229 | 8                                 |  |
| ANDERSON                  | 36                            | MAR 28                     | APR 11 | APR 26 | OCT 09                     | OCT 22 | NOV 04 | 210                        | 193 | 175 | 24                                |  |
|                           | 32                            | MAR 19                     | APR 02 | APR 15 | OCT 19                     | NOV 02 | NOV 15 | 233                        | 213 | 194 | 17                                |  |
|                           | 28                            | MAR 04                     | MAR 20 | APR 06 | OCT 29                     | NOV 14 | NOV 30 | 263                        | 238 | 212 | 10                                |  |
| ANDERSON FAA AP           | 36                            | MAR 23                     | APR 09 | APR 26 | OCT 12                     | OCT 26 | NOV 10 | 221                        | 199 | 177 | 23                                |  |
|                           | 32                            | MAR 14                     | MAR 29 | APR 13 | OCT 24                     | NOV 06 | NOV 20 | 242                        | 222 | 202 | 16                                |  |
|                           | 28                            | FEB 23                     | MAR 12 | MAR 29 | OCT 29                     | NOV 15 | DEC 02 | 268                        | 247 | 226 | 9                                 |  |
| BAMBERG                   | 36                            | MAR 23                     | APR 07 | APR 22 | OCT 15                     | OCT 27 | NOV 08 | 220                        | 202 | 184 | 19                                |  |
|                           | 32                            | MAR 10                     | MAR 26 | APR 10 | OCT 23                     | NOV 06 | NOV 20 | 245                        | 225 | 205 | 13                                |  |
|                           | 28                            | FEB 13                     | MAR 06 | MAR 27 | OCT 30                     | NOV 15 | DEC 01 | 276                        | 253 | 229 | 8                                 |  |
| BEAUFORT 7 SW             | 36                            | MAR 03                     | MAR 24 | APR 13 | OCT 26                     | NOV 09 | NOV 24 | 256                        | 230 | 204 | 13                                |  |
|                           | 32                            | FEB 19                     | MAR 09 | MAR 28 | NOV 01                     | NOV 20 | DEC 09 | 283                        | 255 | 226 | 8                                 |  |
|                           | 28                            | FEB 01                     | FEB 23 | MAR 16 | NOV 12                     | DEC 02 | DEC 22 | 312                        | 282 | 251 | 4                                 |  |
| BLACKVILLE 3 W            | 36                            | MAR 21                     | APR 05 | APR 21 | OCT 13                     | OCT 26 | NOV 07 | 223                        | 203 | 182 | 20                                |  |
|                           | 32                            | MAR 13                     | MAR 25 | APR 06 | OCT 23                     | NOV 07 | NOV 22 | 246                        | 226 | 206 | 14                                |  |
|                           | 28                            | FEB 19                     | MAR 10 | MAR 28 | NOV 03                     | NOV 18 | DEC 04 | 277                        | 253 | 229 | 8                                 |  |
| CAESARS HEAD 1 NE         | 36                            | APR 10                     | APR 29 | MAY 17 | OCT 01                     | OCT 16 | NOV 01 | 196                        | 170 | 143 | 29                                |  |
|                           | 32                            | MAR 27                     | APR 15 | MAY 03 | OCT 12                     | OCT 26 | NOV 08 | 216                        | 193 | 171 | 23                                |  |
|                           | 28                            | MAR 21                     | APR 04 | APR 17 | OCT 17                     | NOV 04 | NOV 21 | 233                        | 213 | 194 | 16                                |  |
| CALHOUN FALLS             | 36                            | MAR 30                     | APR 14 | APR 29 | OCT 10                     | OCT 24 | NOV 06 | 208                        | 192 | 176 | 28                                |  |
|                           | 32                            | MAR 23                     | APR 05 | APR 19 | OCT 19                     | NOV 04 | NOV 19 | 230                        | 212 | 193 | 20                                |  |
|                           | 28                            | FEB 23                     | MAR 14 | APR 02 | OCT 27                     | NOV 12 | NOV 28 | 263                        | 242 | 221 | 13                                |  |
| CAMDEN 2 WSW              | 36                            | APR 04                     | APR 18 | MAY 03 | OCT 11                     | OCT 22 | NOV 03 | 205                        | 186 | 168 | 29                                |  |
|                           | 32                            | MAR 21                     | APR 05 | APR 19 | OCT 17                     | OCT 30 | NOV 11 | 228                        | 207 | 187 | 22                                |  |
|                           | 28                            | MAR 05                     | MAR 20 | APR 04 | OCT 27                     | NOV 10 | NOV 24 | 254                        | 234 | 215 | 15                                |  |
| CHARLESTON AP WSO         | 36                            | MAR 15                     | APR 01 | APR 17 | OCT 24                     | NOV 05 | NOV 16 | 239                        | 217 | 195 | 16                                |  |
|                           | 32                            | FEB 27                     | MAR 18 | APR 06 | OCT 30                     | NOV 12 | NOV 26 | 261                        | 239 | 217 | 10                                |  |
|                           | 28                            | FEB 07                     | MAR 01 | MAR 22 | NOV 07                     | NOV 24 | DEC 12 | 295                        | 268 | 241 | 5                                 |  |
| CHARLESTON CITY WSO       | 36                            | FEB 19                     | MAR 09 | MAR 28 | NOV 09                     | NOV 24 | DEC 09 | 284                        | 259 | 235 | 7                                 |  |
|                           | 32                            | JAN 23                     | FEB 17 | MAR 14 | NOV 20                     | DEC 10 | DEC 30 | 326                        | 296 | 265 | 4                                 |  |
|                           | 28                            | -                          | FEB 03 | MAR 02 | NOV 27                     | DEC 25 | -      | >365                       | 326 | 292 | 1                                 |  |
| CHERAW                    | 36                            | MAR 31                     | APR 15 | APR 30 | OCT 10                     | OCT 22 | NOV 04 | 208                        | 190 | 171 | 29                                |  |
|                           | 32                            | MAR 19                     | APR 01 | APR 15 | OCT 17                     | NOV 01 | NOV 17 | 236                        | 213 | 191 | 22                                |  |
|                           | 28                            | FEB 28                     | MAR 17 | APR 03 | OCT 27                     | NOV 11 | NOV 25 | 261                        | 238 | 214 | 15                                |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE / FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                     |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                     |  |
| SOUTH CAROLINA            |                               |                         |        |        |                         |        |        |                         |     |     |                                     |  |
| CHESTER                   | 36                            | MAR 30                  | APR 18 | MAY 08 | OCT 07                  | OCT 19 | OCT 30 | 208                     | 183 | 158 | 27                                  |  |
|                           | 32                            | MAR 18                  | APR 06 | APR 25 | OCT 14                  | OCT 30 | NOV 15 | 234                     | 206 | 177 | 20                                  |  |
|                           | 28                            | MAR 03                  | MAR 25 | APR 15 | OCT 22                  | NOV 06 | NOV 22 | 254                     | 226 | 198 | 14                                  |  |
| CLEMSON UNIVERSITY        | 36                            | APR 04                  | APR 19 | MAY 04 | OCT 07                  | OCT 19 | OCT 31 | 202                     | 183 | 163 | 27                                  |  |
|                           | 32                            | MAR 21                  | APR 03 | APR 16 | OCT 17                  | NOV 01 | NOV 16 | 233                     | 211 | 189 | 19                                  |  |
|                           | 28                            | MAR 04                  | MAR 20 | APR 05 | OCT 25                  | NOV 08 | NOV 22 | 253                     | 233 | 212 | 13                                  |  |
| COLUMBIA HSD              | 36                            | APR 04                  | APR 16 | APR 29 | OCT 13                  | OCT 24 | NOV 04 | 206                     | 190 | 175 | 23                                  |  |
|                           | 32                            | MAR 13                  | MAR 30 | APR 17 | OCT 16                  | NOV 01 | NOV 17 | 233                     | 215 | 198 | 16                                  |  |
|                           | 28                            | FEB 21                  | MAR 12 | MAR 31 | OCT 27                  | NOV 11 | NOV 26 | 261                     | 243 | 225 | 10                                  |  |
| COLUMBIA UNI OF S C       | 36                            | MAR 15                  | MAR 28 | APR 11 | OCT 19                  | NOV 03 | NOV 17 | 240                     | 218 | 197 | 17                                  |  |
|                           | 32                            | FEB 28                  | MAR 15 | MAR 30 | OCT 26                  | NOV 12 | NOV 28 | 256                     | 241 | 226 | 10                                  |  |
|                           | 28                            | JAN 30                  | FEB 27 | MAR 26 | NOV 05                  | NOV 28 | DEC 21 | 313                     | 273 | 234 | 5                                   |  |
| CONWAY                    | 36                            | MAR 18                  | APR 03 | APR 18 | OCT 18                  | NOV 01 | NOV 15 | 233                     | 211 | 189 | 21                                  |  |
|                           | 32                            | FEB 27                  | MAR 17 | APR 03 | OCT 26                  | NOV 11 | NOV 26 | 263                     | 238 | 213 | 14                                  |  |
|                           | 28                            | FEB 08                  | MAR 01 | MAR 22 | NOV 03                  | NOV 22 | DEC 11 | 294                     | 265 | 237 | 8                                   |  |
| DARLINGTON                | 36                            | MAR 25                  | APR 09 | APR 24 | OCT 11                  | OCT 23 | NOV 05 | 216                     | 197 | 177 | 22                                  |  |
|                           | 32                            | MAR 11                  | MAR 27 | APR 13 | OCT 17                  | NOV 02 | NOV 17 | 243                     | 218 | 194 | 16                                  |  |
|                           | 28                            | FEB 24                  | MAR 14 | APR 02 | OCT 28                  | NOV 11 | NOV 25 | 267                     | 241 | 214 | 9                                   |  |
| DILLON 4 SW               | 36                            | APR 03                  | APR 20 | MAY 08 | OCT 06                  | OCT 19 | NOV 02 | 204                     | 182 | 159 | 27                                  |  |
|                           | 32                            | MAR 21                  | APR 06 | APR 22 | OCT 15                  | OCT 26 | NOV 06 | 222                     | 202 | 183 | 21                                  |  |
|                           | 28                            | MAR 04                  | MAR 23 | APR 10 | OCT 21                  | NOV 06 | NOV 22 | 252                     | 228 | 203 | 14                                  |  |
| FLORENCE FAA AP           | 36                            | MAR 17                  | MAR 31 | APR 15 | OCT 15                  | OCT 28 | NOV 10 | 228                     | 210 | 192 | 20                                  |  |
|                           | 32                            | MAR 03                  | MAR 20 | APR 05 | OCT 26                  | NOV 09 | NOV 23 | 254                     | 234 | 214 | 13                                  |  |
|                           | 28                            | FEB 12                  | MAR 04 | MAR 24 | NOV 02                  | NOV 19 | DEC 06 | 287                     | 259 | 231 | 8                                   |  |
| FLORENCE 2 N              | 36                            | MAR 18                  | APR 03 | APR 19 | OCT 15                  | OCT 25 | NOV 05 | 222                     | 205 | 187 | 22                                  |  |
|                           | 32                            | MAR 07                  | MAR 23 | APR 08 | OCT 20                  | NOV 04 | NOV 20 | 248                     | 226 | 204 | 16                                  |  |
|                           | 28                            | FEB 15                  | MAR 06 | MAR 24 | OCT 27                  | NOV 12 | NOV 28 | 272                     | 251 | 230 | 9                                   |  |
| GEORGETOWN 2 E            | 36                            | MAR 10                  | MAR 28 | APR 14 | OCT 25                  | NOV 07 | NOV 21 | 246                     | 224 | 202 | 16                                  |  |
|                           | 32                            | FEB 17                  | MAR 11 | APR 02 | NOV 04                  | NOV 20 | DEC 06 | 277                     | 253 | 228 | 10                                  |  |
|                           | 28                            | JAN 26                  | FEB 22 | MAR 21 | NOV 18                  | DEC 04 | DEC 20 | 316                     | 285 | 253 | 5                                   |  |
| GREENWOOD 3 ESE           | 36                            | APR 01                  | APR 19 | MAY 08 | OCT 10                  | OCT 24 | NOV 07 | 213                     | 187 | 161 | 28                                  |  |
|                           | 32                            | MAR 19                  | APR 01 | APR 15 | OCT 17                  | NOV 01 | NOV 16 | 233                     | 213 | 193 | 21                                  |  |
|                           | 28                            | FEB 23                  | MAR 15 | APR 05 | OCT 29                  | NOV 13 | NOV 28 | 271                     | 242 | 213 | 13                                  |  |
| HAMPTON                   | 36                            | MAR 14                  | MAR 31 | APR 17 | OCT 16                  | OCT 28 | NOV 10 | 233                     | 210 | 188 | 18                                  |  |
|                           | 32                            | MAR 01                  | MAR 18 | APR 04 | OCT 24                  | NOV 09 | NOV 25 | 259                     | 235 | 212 | 12                                  |  |
|                           | 28                            | FEB 04                  | MAR 01 | MAR 25 | NOV 06                  | NOV 22 | DEC 08 | 293                     | 266 | 239 | 7                                   |  |
| KINGSTREE 1 SE            | 36                            | MAR 20                  | APR 10 | MAY 01 | OCT 09                  | OCT 22 | NOV 05 | 222                     | 195 | 167 | 24                                  |  |
|                           | 32                            | MAR 06                  | MAR 26 | APR 14 | OCT 17                  | NOV 02 | NOV 17 | 248                     | 220 | 192 | 18                                  |  |
|                           | 28                            | FEB 09                  | MAR 08 | APR 05 | OCT 26                  | NOV 12 | NOV 29 | 286                     | 248 | 211 | 11                                  |  |
| LAKE CITY                 | 36                            | MAR 22                  | APR 05 | APR 19 | OCT 18                  | OCT 29 | NOV 10 | 224                     | 206 | 189 | 20                                  |  |
|                           | 32                            | MAR 05                  | MAR 21 | APR 05 | OCT 24                  | NOV 08 | NOV 23 | 254                     | 232 | 209 | 14                                  |  |
|                           | 28                            | FEB 06                  | FEB 28 | MAR 22 | NOV 03                  | NOV 19 | DEC 06 | 287                     | 263 | 240 | 8                                   |  |
| LAURENS                   | 36                            | APR 04                  | APR 20 | MAY 06 | OCT 08                  | OCT 20 | NOV 01 | 202                     | 183 | 163 | 28                                  |  |
|                           | 32                            | MAR 22                  | APR 05 | APR 18 | OCT 13                  | OCT 27 | NOV 10 | 223                     | 205 | 187 | 21                                  |  |
|                           | 28                            | MAR 02                  | MAR 22 | APR 11 | OCT 25                  | NOV 08 | NOV 22 | 252                     | 231 | 209 | 14                                  |  |
| LITTLE MOUNTAIN           | 36                            | MAR 23                  | APR 06 | APR 19 | OCT 13                  | OCT 27 | NOV 09 | 219                     | 203 | 186 | 20                                  |  |
|                           | 32                            | MAR 12                  | MAR 25 | APR 07 | OCT 21                  | NOV 05 | NOV 20 | 242                     | 224 | 205 | 14                                  |  |
|                           | 28                            | FEB 20                  | MAR 12 | APR 02 | OCT 29                  | NOV 15 | DEC 03 | 270                     | 247 | 224 | 8                                   |  |
| LONGCREEK 1 N             | 36                            | APR 08                  | APR 27 | MAY 16 | OCT 02                  | OCT 15 | OCT 28 | 194                     | 170 | 146 | 29                                  |  |
|                           | 32                            | MAR 26                  | APR 10 | APR 26 | OCT 08                  | OCT 23 | NOV 07 | 215                     | 195 | 175 | 20                                  |  |
|                           | 28                            | MAR 11                  | MAR 26 | APR 10 | OCT 18                  | NOV 03 | NOV 19 | 244                     | 221 | 198 | 13                                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| SOUTH CAROLINA            |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| LORIS 1 S                 | 36                            | MAR 27                  | APR 11 | APR 26 | OCT 15                  | OCT 26 | NOV 05 | 214                     | 197 | 179 | 24                                |  |
|                           | 32                            | MAR 16                  | MAR 31 | APR 15 | OCT 22                  | NOV 04 | NOV 16 | 237                     | 217 | 197 | 17                                |  |
|                           | 28                            | FEB 21                  | MAR 13 | APR 02 | NOV 01                  | NOV 14 | NOV 28 | 271                     | 245 | 220 | 11                                |  |
| MARION                    | 36                            | MAR 28                  | APR 14 | APR 30 | OCT 12                  | OCT 24 | NOV 04 | 214                     | 192 | 170 | 22                                |  |
|                           | 32                            | MAR 15                  | APR 01 | APR 18 | OCT 15                  | NOV 01 | NOV 18 | 238                     | 213 | 187 | 16                                |  |
|                           | 28                            | FEB 19                  | MAR 11 | APR 01 | OCT 26                  | NOV 11 | NOV 26 | 269                     | 244 | 218 | 10                                |  |
| MC COLL                   | 36                            | MAR 26                  | APR 08 | APR 21 | OCT 12                  | OCT 27 | NOV 10 | 220                     | 201 | 183 | 21                                |  |
|                           | 32                            | MAR 12                  | MAR 27 | APR 11 | OCT 17                  | NOV 03 | NOV 19 | 243                     | 220 | 197 | 15                                |  |
|                           | 28                            | FEB 20                  | MAR 11 | MAR 30 | OCT 28                  | NOV 14 | NOV 30 | 272                     | 247 | 222 | 9                                 |  |
| NEWBERRY                  | 36                            | APR 01                  | APR 16 | APR 30 | OCT 10                  | OCT 22 | NOV 02 | 205                     | 188 | 172 | 25                                |  |
|                           | 32                            | MAR 19                  | APR 04 | APR 20 | OCT 17                  | OCT 31 | NOV 15 | 228                     | 209 | 191 | 18                                |  |
|                           | 28                            | MAR 03                  | MAR 19 | APR 04 | OCT 26                  | NOV 09 | NOV 24 | 255                     | 234 | 214 | 12                                |  |
| ORANGEBURG 2              | 36                            | MAR 21                  | APR 05 | APR 20 | OCT 14                  | OCT 26 | NOV 06 | 221                     | 203 | 184 | 22                                |  |
|                           | 32                            | MAR 06                  | MAR 24 | APR 10 | OCT 25                  | NOV 08 | NOV 23 | 251                     | 229 | 207 | 15                                |  |
|                           | 28                            | FEB 12                  | MAR 08 | APR 01 | OCT 30                  | NOV 19 | DEC 10 | 280                     | 256 | 231 | 9                                 |  |
| PARR                      | 36                            | APR 11                  | APR 25 | MAY 09 | OCT 05                  | OCT 18 | OCT 31 | 196                     | 175 | 154 | 27                                |  |
|                           | 32                            | MAR 26                  | APR 13 | APR 30 | OCT 13                  | OCT 25 | NOV 05 | 215                     | 194 | 174 | 21                                |  |
|                           | 28                            | MAR 09                  | MAR 27 | APR 14 | OCT 21                  | NOV 06 | NOV 21 | 247                     | 223 | 199 | 14                                |  |
| PICKENS 5 SE              | 36                            | MAR 29                  | APR 15 | MAY 02 | OCT 10                  | OCT 22 | NOV 03 | 209                     | 188 | 168 | 23                                |  |
|                           | 32                            | MAR 18                  | APR 01 | APR 16 | OCT 22                  | NOV 06 | NOV 21 | 236                     | 218 | 200 | 16                                |  |
|                           | 28                            | FEB 25                  | MAR 16 | APR 05 | OCT 28                  | NOV 14 | NOV 30 | 264                     | 242 | 219 | 10                                |  |
| PINOPOLIS DAM             | 36                            | MAR 20                  | APR 04 | APR 20 | OCT 18                  | OCT 31 | NOV 13 | 231                     | 209 | 188 | 19                                |  |
|                           | 32                            | MAR 04                  | MAR 21 | APR 06 | OCT 27                  | NOV 11 | NOV 26 | 259                     | 235 | 210 | 13                                |  |
|                           | 28                            | FEB 07                  | FEB 28 | MAR 22 | NOV 07                  | NOV 25 | DEC 12 | 294                     | 269 | 243 | 7                                 |  |
| RIDGELAND 5 NE            | 36                            | MAR 22                  | APR 08 | APR 24 | OCT 15                  | OCT 27 | NOV 09 | 223                     | 202 | 181 | 18                                |  |
|                           | 32                            | MAR 07                  | MAR 25 | APR 11 | OCT 23                  | NOV 08 | NOV 24 | 252                     | 227 | 203 | 12                                |  |
|                           | 28                            | FEB 13                  | MAR 05 | MAR 25 | OCT 31                  | NOV 18 | DEC 05 | 283                     | 257 | 231 | 7                                 |  |
| SALUDA                    | 36                            | APR 01                  | APR 18 | MAY 05 | OCT 06                  | OCT 19 | OCT 31 | 204                     | 183 | 162 | 27                                |  |
|                           | 32                            | MAR 21                  | APR 08 | APR 25 | OCT 12                  | OCT 26 | NOV 09 | 226                     | 201 | 176 | 20                                |  |
|                           | 28                            | MAR 06                  | MAR 24 | APR 10 | OCT 22                  | NOV 06 | NOV 22 | 243                     | 227 | 211 | 14                                |  |
| SANTUCK                   | 36                            | APR 01                  | APR 15 | APR 29 | OCT 09                  | OCT 21 | NOV 03 | 203                     | 188 | 174 | 24                                |  |
|                           | 32                            | MAR 21                  | APR 03 | APR 16 | OCT 18                  | NOV 01 | NOV 16 | 230                     | 212 | 193 | 18                                |  |
|                           | 28                            | MAR 04                  | MAR 19 | APR 03 | OCT 26                  | NOV 10 | NOV 24 | 257                     | 235 | 214 | 11                                |  |
| SULLIVANS ISLAND          | 36                            | FEB 23                  | MAR 16 | APR 05 | NOV 01                  | NOV 17 | DEC 03 | 272                     | 245 | 218 | 10                                |  |
|                           | 32                            | JAN 26                  | FEB 26 | MAR 30 | NOV 13                  | NOV 30 | DEC 18 | 313                     | 276 | 240 | 5                                 |  |
|                           | 28                            | JAN 13                  | FEB 12 | MAR 13 | NOV 24                  | DEC 15 | JAN 05 | 339                     | 305 | 275 | 2                                 |  |
| SUMMERTOWN 2 HNW          | 36                            | MAR 18                  | APR 08 | APR 29 | OCT 15                  | OCT 27 | NOV 09 | 230                     | 202 | 174 | 20                                |  |
|                           | 32                            | MAR 07                  | MAR 27 | APR 16 | OCT 24                  | NOV 06 | NOV 20 | 250                     | 224 | 197 | 14                                |  |
|                           | 28                            | FEB 09                  | MAR 06 | APR 01 | NOV 01                  | NOV 17 | DEC 03 | 287                     | 255 | 223 | 8                                 |  |
| SUMTER                    | 36                            | MAR 25                  | APR 07 | APR 20 | OCT 15                  | OCT 26 | NOV 06 | 218                     | 202 | 186 | 21                                |  |
|                           | 32                            | MAR 12                  | MAR 26 | APR 09 | OCT 22                  | NOV 05 | NOV 19 | 243                     | 223 | 203 | 15                                |  |
|                           | 28                            | FEB 17                  | MAR 08 | MAR 26 | OCT 30                  | NOV 14 | NOV 29 | 269                     | 251 | 232 | 9                                 |  |
| TILGHMAN FOR NURSERY      | 36                            | MAR 22                  | APR 08 | APR 25 | OCT 10                  | OCT 25 | NOV 09 | 220                     | 199 | 178 | 21                                |  |
|                           | 32                            | MAR 11                  | MAR 25 | APR 09 | OCT 21                  | NOV 06 | NOV 22 | 247                     | 225 | 203 | 15                                |  |
|                           | 28                            | FEB 20                  | MAR 12 | APR 01 | OCT 29                  | NOV 15 | DEC 01 | 271                     | 247 | 223 | 9                                 |  |
| UNION 8 SW                | 36                            | APR 14                  | APR 30 | MAY 16 | OCT 03                  | OCT 14 | OCT 25 | 185                     | 167 | 148 | 32                                |  |
|                           | 32                            | APR 02                  | APR 14 | APR 25 | OCT 13                  | OCT 29 | NOV 13 | 215                     | 197 | 179 | 25                                |  |
|                           | 28                            | MAR 19                  | MAR 31 | APR 13 | OCT 17                  | NOV 02 | NOV 19 | 237                     | 216 | 194 | 18                                |  |
| WALHALLA                  | 36                            | APR 11                  | APR 28 | MAY 16 | OCT 03                  | OCT 15 | OCT 27 | 191                     | 169 | 147 | 30                                |  |
|                           | 32                            | APR 01                  | APR 18 | MAY 05 | OCT 08                  | OCT 21 | NOV 03 | 207                     | 185 | 163 | 23                                |  |
|                           | 28                            | MAR 17                  | APR 02 | APR 19 | OCT 18                  | NOV 03 | NOV 19 | 232                     | 214 | 196 | 15                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| SOUTH CAROLINA            |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| WALTERBORO 2 SW           | 36<br>32<br>28                | MAR 27<br>MAR 09<br>FEB 17 | APR 12<br>MAR 30<br>MAR 11 | APR 29<br>APR 19<br>APR 01 | OCT 14<br>OCT 19<br>OCT 28 | OCT 25<br>NOV 04<br>NOV 11 | NOV 05<br>NOV 20<br>NOV 25 | 215<br>250<br>271       | 195<br>219<br>245 | 175<br>188<br>218 | 20<br>14<br>9                     |  |
| WINNSBORO 1 W             | 36<br>32<br>28                | APR 02<br>MAR 19<br>MAR 12 | APR 17<br>APR 04<br>MAR 24 | MAY 02<br>APR 20<br>APR 04 | OCT 11<br>OCT 16<br>OCT 25 | OCT 23<br>NOV 02<br>NOV 09 | NOV 04<br>NOV 18<br>NOV 23 | 208<br>232<br>249       | 188<br>211<br>229 | 168<br>189<br>209 | 26<br>19<br>12                    |  |
| WINTHROP COLLEGE          | 36<br>32<br>28                | MAR 27<br>MAR 18<br>MAR 01 | APR 10<br>MAR 31<br>MAR 17 | APR 24<br>APR 13<br>APR 02 | OCT 13<br>OCT 21<br>NOV 02 | OCT 27<br>NOV 06<br>NOV 18 | NOV 10<br>NOV 21<br>DEC 04 | 215<br>238<br>264       | 199<br>219<br>245 | 183<br>200<br>227 | 24<br>17<br>10                    |  |
| YEMASSEE 4 W              | 36<br>32<br>28                | MAR 22<br>MAR 06<br>FEB 14 | APR 10<br>MAR 24<br>MAR 06 | APR 29<br>APR 11<br>MAR 26 | OCT 14<br>OCT 21<br>OCT 31 | OCT 26<br>NOV 05<br>NOV 16 | NOV 07<br>NOV 19<br>DEC 03 | 223<br>250<br>276       | 198<br>225<br>254 | 174<br>200<br>233 | 20<br>14<br>9                     |  |
| SOUTH DAKOTA              |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ACADEMY                   | 36<br>32<br>28                | MAY 03<br>APR 22<br>APR 08 | MAY 18<br>MAY 08<br>APR 25 | JUN 02<br>MAY 24<br>MAY 13 | SEP 08<br>SEP 18<br>SEP 29 | SEP 22<br>OCT 02<br>OCT 13 | OCT 07<br>OCT 15<br>OCT 26 | 148<br>168<br>190       | 126<br>146<br>170 | 105<br>124<br>149 | 51<br>45<br>37                    |  |
| ALEXANDRIA                | 36<br>32<br>28                | APR 30<br>APR 19<br>APR 10 | MAY 17<br>MAY 05<br>APR 24 | JUN 03<br>MAY 21<br>MAY 09 | SEP 12<br>SEP 20<br>OCT 03 | SEP 25<br>OCT 02<br>OCT 16 | OCT 09<br>OCT 14<br>OCT 29 | 150<br>168<br>192       | 131<br>149<br>174 | 111<br>130<br>156 | 49<br>43<br>37                    |  |
| ARDMORE 2 N               | 36<br>32<br>28                | MAY 10<br>MAY 05<br>APR 24 | JUN 03<br>MAY 19<br>MAY 10 | JUN 26<br>JUN 02<br>MAY 26 | AUG 22<br>SEP 02<br>SEP 10 | SEP 07<br>SEP 14<br>SEP 24 | SEP 23<br>SEP 25<br>OCT 07 | 121<br>134<br>152       | 95<br>117<br>136  | 70<br>100<br>120  | 59<br>53<br>46                    |  |
| ARMOUR                    | 36<br>32<br>28                | MAY 02<br>APR 27<br>APR 08 | MAY 17<br>MAY 08<br>APR 26 | JUN 02<br>MAY 20<br>MAY 13 | SEP 08<br>SEP 15<br>SEP 28 | SEP 23<br>OCT 02<br>OCT 12 | OCT 07<br>OCT 19<br>OCT 26 | 150<br>167<br>191       | 128<br>146<br>168 | 106<br>125<br>146 | 50<br>45<br>37                    |  |
| BELLE FOURCHE             | 36<br>32<br>28                | MAY 09<br>APR 26<br>APR 18 | MAY 26<br>MAY 15<br>MAY 02 | JUN 12<br>JUN 03<br>MAY 16 | AUG 30<br>SEP 06<br>SEP 16 | SEP 12<br>SEP 19<br>SEP 29 | SEP 25<br>OCT 03<br>OCT 13 | 132<br>148<br>168       | 108<br>127<br>150 | 85<br>106<br>131  | 57<br>49<br>42                    |  |
| BONESTEEL                 | 36<br>32<br>28                | MAY 03<br>APR 24<br>APR 10 | MAY 19<br>MAY 07<br>APR 26 | JUN 04<br>MAY 21<br>MAY 12 | SEP 06<br>SEP 15<br>SEP 26 | SEP 19<br>OCT 02<br>OCT 11 | OCT 03<br>OCT 18<br>OCT 27 | 144<br>171<br>189       | 123<br>147<br>167 | 102<br>123<br>146 | 51<br>45<br>38                    |  |
| BRIDgewater               | 36<br>32<br>28                | MAY 03<br>APR 21<br>APR 09 | MAY 19<br>MAY 07<br>APR 26 | JUN 04<br>MAY 22<br>MAY 14 | SEP 10<br>SEP 18<br>SEP 27 | SEP 24<br>OCT 03<br>OCT 11 | OCT 08<br>OCT 17<br>OCT 26 | 149<br>169<br>188       | 128<br>148<br>167 | 106<br>127<br>147 | 51<br>45<br>38                    |  |
| BRITTON                   | 36<br>32<br>28                | MAY 10<br>MAY 03<br>APR 24 | MAY 27<br>MAY 16<br>MAY 08 | JUN 12<br>MAY 30<br>MAY 22 | AUG 31<br>SEP 08<br>SEP 17 | SEP 12<br>SEP 20<br>OCT 03 | SEP 24<br>OCT 01<br>OCT 18 | 132<br>143<br>168       | 108<br>126<br>146 | 84<br>109<br>125  | 55<br>49<br>43                    |  |
| BROOKINGS 2 NE            | 36<br>32<br>28                | MAY 10<br>MAY 04<br>APR 21 | MAY 27<br>MAY 16<br>MAY 04 | JUN 12<br>MAY 28<br>MAY 18 | AUG 28<br>SEP 09<br>SEP 15 | SEP 11<br>SEP 20<br>SEP 30 | SEP 25<br>OCT 01<br>OCT 15 | 129<br>141<br>166       | 107<br>126<br>148 | 84<br>110<br>130  | 56<br>51<br>44                    |  |
| CAMP CROOK                | 36<br>32<br>28                | MAY 14<br>MAY 08<br>APR 26 | JUN 05<br>MAY 24<br>MAY 10 | JUN 27<br>JUN 09<br>MAY 24 | AUG 17<br>AUG 31<br>SEP 06 | SEP 01<br>SEP 13<br>SEP 22 | SEP 16<br>SEP 27<br>OCT 07 | 114<br>133<br>152       | 87<br>112<br>134  | 61<br>91<br>115   | 60<br>53<br>46                    |  |
| CANTON                    | 36<br>32<br>28                | MAY 07<br>APR 28<br>APR 11 | MAY 19<br>MAY 11<br>APR 29 | MAY 30<br>MAY 23<br>MAY 16 | SEP 07<br>SEP 16<br>SEP 23 | SEP 20<br>SEP 29<br>OCT 07 | OCT 02<br>OCT 13<br>OCT 22 | 141<br>159<br>183       | 123<br>141<br>161 | 106<br>123<br>139 | 51<br>45<br>39                    |  |
| CASTLEWOOD                | 36<br>32<br>28                | MAY 07<br>MAY 06<br>APR 24 | MAY 30<br>MAY 18<br>MAY 06 | JUN 23<br>MAY 30<br>MAY 19 | AUG 29<br>SEP 04<br>SEP 14 | SEP 11<br>SEP 19<br>SEP 30 | SEP 24<br>OCT 03<br>OCT 15 | 133<br>143<br>163       | 103<br>123<br>146 | 74<br>103<br>128  | 56<br>51<br>44                    |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| SOUTH DAKOTA              |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| CENTERVILLE 6 SE          | 36                            | MAY 02                  | MAY 15 | MAY 29 | SEP 09                  | SEP 22 | OCT 04 | 149                     | 129 | 109 | 50                                |  |
|                           | 32                            | APR 19                  | MAY 07 | MAY 25 | SEP 15                  | OCT 01 | OCT 17 | 171                     | 146 | 122 | 44                                |  |
|                           | 28                            | APR 11                  | APR 27 | MAY 13 | SEP 28                  | OCT 12 | OCT 27 | 191                     | 168 | 145 | 37                                |  |
| CLARK                     | 36                            | MAY 07                  | MAY 20 | JUN 02 | SEP 06                  | SEP 18 | SEP 30 | 139                     | 121 | 102 | 54                                |  |
|                           | 32                            | APR 30                  | MAY 12 | MAY 24 | SEP 18                  | SEP 30 | OCT 12 | 156                     | 140 | 124 | 49                                |  |
|                           | 28                            | APR 19                  | MAY 03 | MAY 16 | SEP 27                  | OCT 10 | OCT 22 | 177                     | 159 | 141 | 42                                |  |
| COLUMBIA 8 N              | 36                            | MAY 09                  | MAY 23 | JUN 05 | AUG 31                  | SEP 13 | SEP 26 | 135                     | 113 | 91  | 55                                |  |
|                           | 32                            | MAY 01                  | MAY 12 | MAY 23 | SEP 07                  | SEP 22 | OCT 07 | 152                     | 133 | 113 | 50                                |  |
|                           | 28                            | APR 21                  | MAY 05 | MAY 20 | SEP 18                  | OCT 04 | OCT 20 | 172                     | 151 | 130 | 43                                |  |
| CUSTER                    | 36                            | JUN 11                  | JUN 30 | JUL 20 | AUG 07                  | AUG 25 | SEP 11 | 82                      | 55  | 28  | 68                                |  |
|                           | 32                            | MAY 22                  | JUN 12 | JUL 03 | AUG 17                  | SEP 04 | SEP 21 | 111                     | 82  | 53  | 61                                |  |
|                           | 28                            | MAY 12                  | MAY 27 | JUN 12 | AUG 29                  | SEP 12 | SEP 26 | 128                     | 107 | 86  | 53                                |  |
| DEADWOOD                  | 36                            | MAY 21                  | JUN 11 | JUL 02 | AUG 15                  | SEP 01 | SEP 18 | 104                     | 82  | 60  | 60                                |  |
|                           | 32                            | MAY 10                  | MAY 29 | JUN 16 | SEP 06                  | SEP 16 | SEP 26 | 131                     | 110 | 88  | 52                                |  |
|                           | 28                            | APR 26                  | MAY 09 | MAY 21 | SEP 13                  | SEP 29 | OCT 15 | 160                     | 143 | 126 | 43                                |  |
| DE SMET                   | 36                            | MAY 02                  | MAY 19 | JUN 04 | SEP 08                  | SEP 23 | OCT 07 | 149                     | 126 | 104 | 52                                |  |
|                           | 32                            | APR 23                  | MAY 07 | MAY 21 | SEP 19                  | OCT 01 | OCT 13 | 164                     | 146 | 129 | 47                                |  |
|                           | 28                            | APR 12                  | APR 29 | MAY 16 | SEP 29                  | OCT 12 | OCT 25 | 187                     | 166 | 144 | 40                                |  |
| DUPREE                    | 36                            | MAY 08                  | MAY 25 | JUN 12 | SEP 01                  | SEP 14 | SEP 27 | 134                     | 111 | 88  | 54                                |  |
|                           | 32                            | APR 29                  | MAY 14 | MAY 29 | SEP 10                  | SEP 21 | OCT 03 | 148                     | 129 | 111 | 48                                |  |
|                           | 28                            | APR 16                  | MAY 02 | MAY 17 | SEP 18                  | OCT 03 | OCT 18 | 174                     | 154 | 133 | 41                                |  |
| EUREKA                    | 36                            | MAY 10                  | MAY 27 | JUN 12 | SEP 01                  | SEP 14 | SEP 27 | 132                     | 109 | 87  | 56                                |  |
|                           | 32                            | MAY 01                  | MAY 16 | MAY 30 | SEP 07                  | SEP 23 | OCT 10 | 152                     | 130 | 107 | 51                                |  |
|                           | 28                            | APR 22                  | MAY 05 | MAY 18 | SEP 22                  | OCT 06 | OCT 19 | 171                     | 153 | 135 | 44                                |  |
| FAITH 2 W                 | 36                            | MAY 06                  | MAY 22 | JUN 07 | SEP 01                  | SEP 17 | OCT 02 | 141                     | 117 | 93  | 54                                |  |
|                           | 32                            | APR 26                  | MAY 13 | MAY 30 | SEP 09                  | SEP 23 | OCT 07 | 150                     | 133 | 115 | 48                                |  |
|                           | 28                            | APR 14                  | APR 29 | MAY 13 | SEP 23                  | OCT 07 | OCT 22 | 181                     | 161 | 140 | 40                                |  |
| FAULKTON 1 NW             | 36                            | MAY 05                  | MAY 27 | JUN 17 | AUG 28                  | SEP 10 | SEP 23 | 136                     | 106 | 75  | 55                                |  |
|                           | 32                            | MAY 03                  | MAY 18 | JUN 03 | SEP 09                  | SEP 20 | OCT 01 | 142                     | 124 | 105 | 49                                |  |
|                           | 28                            | APR 23                  | MAY 08 | MAY 22 | SEP 17                  | OCT 01 | OCT 15 | 164                     | 146 | 127 | 42                                |  |
| FLANDREAU                 | 36                            | MAY 08                  | MAY 24 | JUN 08 | SEP 03                  | SEP 15 | SEP 28 | 134                     | 114 | 93  | 54                                |  |
|                           | 32                            | APR 29                  | MAY 12 | MAY 25 | SEP 11                  | SEP 26 | OCT 10 | 155                     | 136 | 117 | 48                                |  |
|                           | 28                            | APR 17                  | MAY 02 | MAY 17 | SEP 22                  | OCT 07 | OCT 22 | 174                     | 157 | 141 | 41                                |  |
| FORESTBURG 3 NE           | 36                            | MAY 05                  | MAY 21 | JUN 05 | SEP 10                  | SEP 20 | OCT 01 | 141                     | 122 | 103 | 52                                |  |
|                           | 32                            | APR 24                  | MAY 08 | MAY 23 | SEP 17                  | SEP 30 | OCT 14 | 163                     | 144 | 126 | 46                                |  |
|                           | 28                            | APR 09                  | APR 28 | MAY 16 | SEP 25                  | OCT 10 | OCT 24 | 186                     | 164 | 142 | 39                                |  |
| FORT MEADE                | 36                            | MAY 02                  | MAY 19 | JUN 05 | SEP 06                  | SEP 20 | OCT 03 | 144                     | 123 | 102 | 51                                |  |
|                           | 32                            | APR 21                  | MAY 09 | MAY 27 | SEP 13                  | SEP 27 | OCT 11 | 159                     | 140 | 121 | 44                                |  |
|                           | 28                            | APR 12                  | APR 29 | MAY 16 | SEP 25                  | OCT 11 | OCT 26 | 184                     | 164 | 143 | 36                                |  |
| GANN VALLEY               | 36                            | MAY 05                  | MAY 22 | JUN 08 | AUG 30                  | SEP 15 | SEP 30 | 140                     | 115 | 90  | 53                                |  |
|                           | 32                            | APR 30                  | MAY 14 | MAY 29 | SEP 10                  | SEP 23 | OCT 06 | 150                     | 131 | 113 | 48                                |  |
|                           | 28                            | APR 21                  | MAY 06 | MAY 22 | SEP 20                  | OCT 05 | OCT 21 | 175                     | 151 | 128 | 41                                |  |
| GETTYSBURG                | 36                            | MAY 05                  | MAY 20 | JUN 04 | SEP 05                  | SEP 18 | OCT 02 | 142                     | 120 | 99  | 55                                |  |
|                           | 32                            | APR 26                  | MAY 10 | MAY 23 | SEP 14                  | SEP 28 | OCT 11 | 159                     | 140 | 121 | 49                                |  |
|                           | 28                            | APR 14                  | APR 30 | MAY 17 | SEP 25                  | OCT 08 | OCT 22 | 181                     | 160 | 140 | 42                                |  |
| GREGORY                   | 36                            | MAY 04                  | MAY 21 | JUN 07 | SEP 05                  | SEP 20 | OCT 06 | 144                     | 122 | 99  | 52                                |  |
|                           | 32                            | APR 26                  | MAY 11 | MAY 26 | SEP 19                  | OCT 01 | OCT 13 | 163                     | 142 | 122 | 46                                |  |
|                           | 28                            | APR 13                  | APR 30 | MAY 16 | SEP 27                  | OCT 12 | OCT 27 | 185                     | 164 | 143 | 39                                |  |
| HIGHMORE 1 W              | 36                            | MAY 06                  | MAY 29 | JUN 20 | AUG 27                  | SEP 13 | SEP 29 | 136                     | 106 | 77  | 54                                |  |
|                           | 32                            | APR 28                  | MAY 16 | JUN 02 | SEP 12                  | SEP 25 | OCT 09 | 157                     | 132 | 107 | 48                                |  |
|                           | 28                            | APR 16                  | MAY 03 | MAY 20 | SEP 22                  | OCT 05 | OCT 19 | 177                     | 154 | 131 | 41                                |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| SOUTH DAKOTA              |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| HOT SPRINGS               | 36<br>32<br>28                | MAY 16<br>MAY 03<br>APR 18 | MAY 30<br>MAY 18<br>MAY 04 | JUN 14<br>JUN 03<br>MAY 19 | AUG 28<br>SEP 06<br>SEP 15 | SEP 09<br>SEP 20<br>SEP 28 | SEP 22<br>OCT 04<br>OCT 12 | 120<br>140<br>167       | 101<br>124<br>147 | 82<br>108<br>126  | 56<br>50<br>41                    |  |
| HOWARD                    | 36<br>32<br>28                | MAY 05<br>APR 28<br>APR 14 | MAY 21<br>MAY 10<br>MAY 01 | JUN 06<br>MAY 23<br>MAY 19 | SEP 06<br>SEP 11<br>SEP 21 | SEP 18<br>SEP 27<br>OCT 07 | SEP 29<br>OCT 12<br>OCT 22 | 137<br>157<br>179       | 119<br>139<br>157 | 100<br>120<br>136 | 52<br>46<br>40                    |  |
| HURON WSO                 | 36<br>32<br>28                | MAY 05<br>APR 25<br>APR 13 | MAY 20<br>MAY 11<br>APR 30 | JUN 04<br>MAY 27<br>MAY 18 | SEP 04<br>SEP 15<br>SEP 25 | SEP 18<br>SEP 29<br>OCT 09 | OCT 01<br>OCT 13<br>OCT 23 | 142<br>162<br>183       | 120<br>140<br>161 | 97<br>118<br>140  | 54<br>48<br>41                    |  |
| KENNEBEC                  | 36<br>32<br>28                | MAY 04<br>APR 28<br>APR 18 | MAY 27<br>MAY 14<br>MAY 05 | JUN 20<br>MAY 29<br>MAY 22 | AUG 30<br>SEP 11<br>SEP 20 | SEP 14<br>SEP 23<br>OCT 05 | SEP 28<br>OCT 05<br>OCT 20 | 139<br>150<br>176       | 109<br>132<br>152 | 79<br>114<br>128  | 53<br>48<br>41                    |  |
| LEAD 1 SE                 | 36<br>32<br>28                | MAY 20<br>MAY 10<br>APR 22 | JUN 06<br>MAY 27<br>MAY 08 | JUN 22<br>JUN 14<br>MAY 25 | AUG 25<br>SEP 06<br>SEP 15 | SEP 11<br>SEP 20<br>OCT 02 | SEP 27<br>OCT 04<br>OCT 19 | 123<br>136<br>167       | 96<br>116<br>146  | 70<br>95<br>126   | 55<br>47<br>38                    |  |
| LEMMON                    | 36<br>32<br>28                | MAY 07<br>APR 27<br>APR 18 | MAY 25<br>MAY 12<br>MAY 03 | JUN 11<br>MAY 27<br>MAY 19 | SEP 01<br>SEP 06<br>SEP 20 | SEP 15<br>SEP 21<br>OCT 05 | SEP 28<br>OCT 06<br>OCT 20 | 136<br>150<br>176       | 113<br>131<br>154 | 90<br>112<br>133  | 57<br>51<br>44                    |  |
| LONGVALLEY                | 36<br>32<br>28                | MAY 04<br>APR 27<br>APR 16 | MAY 22<br>MAY 10<br>MAY 02 | JUN 10<br>MAY 22<br>MAY 18 | SEP 03<br>SEP 15<br>SEP 23 | SEP 17<br>SEP 28<br>OCT 07 | SEP 30<br>OCT 11<br>OCT 22 | 141<br>159<br>181       | 117<br>141<br>158 | 92<br>122<br>134  | 51<br>45<br>37                    |  |
| LUDLOW                    | 36<br>32<br>28                | MAY 12<br>MAY 03<br>APR 20 | MAY 31<br>MAY 20<br>MAY 07 | JUN 19<br>JUN 06<br>MAY 24 | AUG 17<br>AUG 31<br>SEP 10 | SEP 05<br>SEP 16<br>SEP 27 | SEP 24<br>OCT 02<br>OCT 14 | 121<br>142<br>168       | 96<br>118<br>143  | 72<br>95<br>118   | 57<br>51<br>43                    |  |
| MARION                    | 36<br>32<br>28                | MAY 02<br>APR 22<br>APR 08 | MAY 16<br>MAY 06<br>APR 25 | MAY 29<br>MAY 20<br>MAY 12 | SEP 12<br>SEP 19<br>SEP 29 | SEP 25<br>OCT 04<br>OCT 13 | OCT 08<br>OCT 19<br>OCT 27 | 151<br>171<br>190       | 131<br>150<br>171 | 112<br>129<br>152 | 51<br>45<br>38                    |  |
| MARTIN                    | 36<br>32<br>28                | MAY 09<br>APR 25<br>APR 14 | MAY 26<br>MAY 10<br>APR 30 | JUN 12<br>MAY 26<br>MAY 15 | SEP 04<br>SEP 14<br>SEP 24 | SEP 20<br>SEP 28<br>OCT 09 | OCT 05<br>OCT 12<br>OCT 23 | 140<br>159<br>181       | 116<br>140<br>161 | 93<br>120<br>142  | 52<br>46<br>38                    |  |
| MCINTOSH                  | 36<br>32<br>28                | MAY 02<br>APR 23<br>APR 15 | MAY 16<br>MAY 09<br>APR 30 | MAY 31<br>MAY 25<br>MAY 14 | SEP 05<br>SEP 13<br>SEP 24 | SEP 19<br>SEP 27<br>OCT 06 | OCT 03<br>OCT 11<br>OCT 18 | 145<br>163<br>178       | 125<br>140<br>159 | 105<br>117<br>139 | 54<br>49<br>42                    |  |
| MENNO                     | 36<br>32<br>28                | MAY 05<br>APR 26<br>APR 11 | MAY 19<br>MAY 08<br>APR 26 | JUN 01<br>MAY 20<br>MAY 11 | SEP 08<br>SEP 15<br>SEP 22 | SEP 19<br>SEP 30<br>OCT 08 | SEP 30<br>OCT 15<br>OCT 23 | 139<br>161<br>187       | 123<br>144<br>164 | 107<br>127<br>141 | 51<br>45<br>38                    |  |
| MIDLAND                   | 36<br>32<br>28                | MAY 06<br>MAY 01<br>APR 20 | MAY 30<br>MAY 17<br>MAY 05 | JUN 23<br>JUN 02<br>MAY 19 | AUG 28<br>SEP 08<br>SEP 13 | SEP 11<br>SEP 20<br>SEP 28 | SEP 24<br>OCT 02<br>OCT 13 | 131<br>144<br>166       | 103<br>126<br>146 | 75<br>107<br>126  | 55<br>49<br>42                    |  |
| MILBANK                   | 36<br>32<br>28                | MAY 06<br>APR 28<br>APR 13 | MAY 18<br>MAY 10<br>APR 29 | MAY 29<br>MAY 23<br>MAY 15 | SEP 09<br>SEP 16<br>SEP 30 | SEP 19<br>SEP 30<br>OCT 13 | SEP 28<br>OCT 15<br>OCT 25 | 138<br>159<br>187       | 123<br>142<br>166 | 107<br>125<br>145 | 53<br>47<br>40                    |  |
| MILESVILLE 5 NE           | 36<br>32<br>28                | MAY 04<br>APR 27<br>APR 15 | MAY 22<br>MAY 17<br>MAY 01 | JUN 10<br>MAY 31<br>MAY 16 | SEP 07<br>SEP 08<br>SEP 21 | SEP 18<br>SEP 26<br>OCT 06 | SEP 29<br>OCT 12<br>OCT 21 | 137<br>156<br>178       | 118<br>136<br>158 | 98<br>115<br>137  | 53<br>48<br>41                    |  |
| MILLER                    | 36<br>32<br>28                | MAY 03<br>APR 25<br>APR 10 | MAY 17<br>MAY 09<br>APR 26 | MAY 31<br>MAY 22<br>MAY 11 | SEP 08<br>SEP 22<br>SEP 28 | SEP 22<br>OCT 04<br>OCT 12 | OCT 06<br>OCT 15<br>OCT 26 | 147<br>165<br>187       | 127<br>147<br>169 | 108<br>129<br>151 | 51<br>45<br>38                    |  |
| MITCHELL 2 SSE            | 36<br>32<br>28                | MAY 02<br>APR 22<br>APR 09 | MAY 17<br>MAY 07<br>APR 27 | JUN 02<br>MAY 21<br>MAY 15 | SEP 11<br>SEP 18<br>SEP 27 | SEP 23<br>OCT 03<br>OCT 14 | OCT 04<br>OCT 18<br>OCT 30 | 146<br>170<br>194       | 128<br>149<br>169 | 109<br>127<br>143 | 51<br>45<br>38                    |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP. THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|--------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                                | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                 |  |
|                           |                                | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                 |  |
| SOUTH DAKOTA              |                                |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| MOBRIDGE                  | 36<br>32<br>28                 | MAY 02<br>APR 25<br>APR 12 | MAY 16<br>MAY 07<br>APR 28 | MAY 30<br>MAY 19<br>MAY 13 | SEP 09<br>SEP 20<br>SEP 25 | SEP 22<br>OCT 03<br>OCT 10 | OCT 04<br>OCT 15<br>OCT 25 | 147<br>165<br>186       | 128<br>148<br>165 | 109<br>132<br>144 | 53<br>48<br>41                  |  |
| MURDO                     | 36<br>32<br>28                 | MAY 01<br>APR 20<br>APR 12 | MAY 19<br>MAY 08<br>APR 28 | JUN 05<br>MAY 25<br>MAY 14 | SEP 07<br>SEP 19<br>SEP 28 | SEP 22<br>OCT 03<br>OCT 12 | OCT 08<br>OCT 18<br>OCT 25 | 149<br>173<br>188       | 126<br>148<br>166 | 103<br>122<br>144 | 52<br>46<br>39                  |  |
| NEWELL 2 NW               | 36<br>32<br>28                 | MAY 07<br>APR 29<br>APR 14 | MAY 26<br>MAY 14<br>APR 30 | JUN 14<br>MAY 29<br>MAY 15 | AUG 31<br>SEP 08<br>SEP 19 | SEP 13<br>SEP 22<br>OCT 02 | SEP 26<br>OCT 07<br>OCT 16 | 134<br>148<br>176       | 109<br>130<br>155 | 85<br>113<br>134  | 56<br>50<br>43                  |  |
| OELRICH'S                 | 36<br>32<br>28                 | MAY 07<br>APR 29<br>APR 18 | MAY 29<br>MAY 18<br>MAY 02 | JUN 19<br>JUN 06<br>MAY 16 | SEP 01<br>SEP 09<br>SEP 16 | SEP 13<br>SEP 23<br>SEP 30 | SEP 25<br>OCT 07<br>OCT 14 | 131<br>150<br>168       | 107<br>128<br>150 | 83<br>105<br>132  | 55<br>48<br>40                  |  |
| PHILIP                    | 36<br>32<br>28                 | MAY 07<br>APR 30<br>APR 11 | MAY 23<br>MAY 10<br>APR 29 | JUN 08<br>MAY 21<br>MAY 17 | SEP 06<br>SEP 10<br>SEP 22 | SEP 16<br>SEP 25<br>OCT 05 | SEP 26<br>OCT 10<br>OCT 19 | 135<br>153<br>182       | 115<br>137<br>159 | 96<br>120<br>135  | 55<br>49<br>42                  |  |
| PICKSTOWN                 | 36<br>32<br>28                 | APR 28<br>APR 16<br>APR 04 | MAY 10<br>MAY 02<br>APR 22 | MAY 22<br>MAY 19<br>MAY 10 | SEP 17<br>SEP 27<br>OCT 04 | OCT 01<br>OCT 11<br>OCT 20 | OCT 14<br>OCT 24<br>NOV 04 | 161<br>183<br>201       | 143<br>160<br>180 | 125<br>138<br>159 | 48<br>41<br>35                  |  |
| POLLOCK                   | 36<br>32<br>28                 | MAY 09<br>MAY 01<br>APR 21 | MAY 23<br>MAY 13<br>MAY 04 | JUN 06<br>MAY 24<br>MAY 18 | AUG 29<br>SEP 05<br>SEP 14 | SEP 12<br>SEP 21<br>OCT 01 | SEP 27<br>OCT 07<br>OCT 18 | 133<br>151<br>172       | 112<br>131<br>149 | 91<br>111<br>126  | 57<br>51<br>44                  |  |
| RALPH                     | 36<br>32<br>28                 | MAY 22<br>MAY 06<br>APR 29 | JUN 14<br>MAY 30<br>MAY 14 | JUL 07<br>JUN 22<br>MAY 29 | AUG 09<br>AUG 24<br>SEP 03 | AUG 26<br>SEP 08<br>SEP 17 | SEP 13<br>SEP 23<br>OCT 01 | 109<br>128<br>147       | 72<br>101<br>125  | 36<br>74<br>103   | 62<br>56<br>49                  |  |
| RAPID CITY WSO            | 36<br>32<br>28                 | MAY 05<br>APR 18<br>APR 10 | MAY 22<br>MAY 07<br>APR 27 | JUN 09<br>MAY 26<br>MAY 14 | SEP 08<br>SEP 14<br>SEP 24 | SEP 21<br>SEP 29<br>OCT 10 | OCT 03<br>OCT 15<br>OCT 26 | 142<br>168<br>183       | 120<br>145<br>165 | 99<br>121<br>147  | 53<br>46<br>38                  |  |
| RAPID CITY                | 36<br>32<br>28                 | APR 29<br>APR 18<br>APR 10 | MAY 18<br>MAY 06<br>APR 26 | JUN 05<br>MAY 24<br>MAY 12 | SEP 07<br>SEP 15<br>SEP 28 | SEP 20<br>OCT 01<br>OCT 13 | OCT 04<br>OCT 18<br>OCT 27 | 146<br>172<br>189       | 125<br>147<br>169 | 104<br>123<br>149 | 50<br>43<br>34                  |  |
| REDFIELD 6 E              | 36<br>32<br>28                 | MAY 05<br>MAY 01<br>APR 22 | MAY 28<br>MAY 16<br>MAY 07 | JUN 19<br>JUN 01<br>MAY 21 | AUG 30<br>SEP 06<br>SEP 15 | SEP 12<br>SEP 19<br>OCT 01 | SEP 25<br>OCT 03<br>OCT 17 | 134<br>144<br>167       | 107<br>125<br>146 | 79<br>106<br>125  | 56<br>50<br>43                  |  |
| REDIG 11 NE               | 36<br>32<br>28                 | MAY 12<br>MAY 03<br>APR 22 | MAY 28<br>MAY 20<br>MAY 07 | JUN 13<br>JUN 06<br>MAY 22 | AUG 26<br>SEP 06<br>SEP 08 | SEP 08<br>SEP 16<br>SEP 25 | SEP 22<br>SEP 27<br>OCT 11 | 124<br>138<br>159       | 103<br>118<br>140 | 82<br>99<br>120   | 58<br>52<br>45                  |  |
| SIOUX FALLS WSO           | 36<br>32<br>28                 | MAY 05<br>APR 26<br>APR 13 | MAY 20<br>MAY 10<br>APR 29 | JUN 04<br>MAY 24<br>MAY 15 | SEP 10<br>SEP 17<br>SEP 27 | SEP 21<br>OCT 01<br>OCT 10 | OCT 02<br>OCT 15<br>OCT 24 | 142<br>162<br>184       | 123<br>143<br>164 | 104<br>125<br>144 | 52<br>46<br>40                  |  |
| SISSETON                  | 36<br>32<br>28                 | MAY 07<br>APR 30<br>APR 14 | MAY 19<br>MAY 10<br>APR 30 | MAY 31<br>MAY 21<br>MAY 15 | SEP 09<br>SEP 13<br>SEP 24 | SEP 21<br>SEP 29<br>OCT 11 | OCT 02<br>OCT 15<br>OCT 27 | 143<br>158<br>185       | 124<br>141<br>164 | 104<br>124<br>142 | 53<br>47<br>40                  |  |
| SPEARFISH                 | 36<br>32<br>28                 | MAY 05<br>APR 24<br>APR 10 | MAY 25<br>MAY 12<br>APR 29 | JUN 13<br>MAY 30<br>MAY 18 | SEP 03<br>SEP 13<br>SEP 23 | SEP 17<br>SEP 27<br>OCT 11 | OCT 01<br>OCT 11<br>OCT 29 | 134<br>157<br>192       | 115<br>137<br>165 | 95<br>117<br>137  | 52<br>45<br>36                  |  |
| TIMBER LAKE               | 36<br>32<br>28                 | MAY 05<br>APR 29<br>APR 13 | MAY 22<br>MAY 12<br>APR 29 | JUN 09<br>MAY 25<br>MAY 15 | SEP 01<br>SEP 11<br>SEP 22 | SEP 16<br>SEP 25<br>OCT 06 | SEP 30<br>OCT 08<br>OCT 20 | 139<br>152<br>178       | 115<br>135<br>159 | 92<br>118<br>139  | 54<br>49<br>41                  |  |
| TYNDALL                   | 36<br>32<br>28                 | MAY 01<br>APR 19<br>APR 07 | MAY 12<br>MAY 04<br>APR 23 | MAY 24<br>MAY 19<br>MAY 08 | SEP 12<br>SEP 20<br>SEP 30 | SEP 25<br>OCT 06<br>OCT 14 | OCT 08<br>OCT 21<br>OCT 29 | 152<br>174<br>195       | 135<br>154<br>174 | 118<br>134<br>153 | 49<br>43<br>36                  |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)                                    |                            |                            | FALL (DATE)                                      |                            |                            | FREEZE FREE PERIOD                               |                   |                   | FREEZE/FROST<br>PROBABILITY <sup>†</sup><br>(4) * |  |
|---------------------------|-------------------------------|--|----------------------------|----------------------------|--|----------------------------|----------------------------|--|-------------------|-------------------|---|--|
|                           |                               | PROBABILITY LEVEL (1)<br>*<br>90      50      10 |                            |                            | PROBABILITY LEVEL (2)<br>*<br>10      50      90 |                            |                            | PROBABILITY LEVEL (3)<br>*<br>10      50      90 |                   |                   |   |  |
|                           |                               | 90   | 50                         | 10                         | 10   | 50                         | 90                         | 10   | 50                | 90                |   |  |
| SOUTH DAKOTA              |                               |  |                            |                            |  |                            |                            |  |                   |                   |   |  |
| VERMILLION 2 SE           | 36<br>32<br>28                | MAY 04<br>APR 20<br>APR 10                       | MAY 16<br>MAY 05<br>APR 27 | MAY 28<br>MAY 20<br>MAY 14 | SEP 05<br>SEP 19<br>SEP 27                       | SEP 20<br>OCT 03<br>OCT 10 | OCT 06<br>OCT 15<br>OCT 24 | 148<br>169<br>186                                | 127<br>150<br>166 | 106<br>132<br>145 | 49<br>44<br>37                                    |  |
| WAGNER                    | 36<br>32<br>28                | MAY 02<br>APR 19<br>APR 07                       | MAY 17<br>MAY 06<br>APR 24 | MAY 31<br>MAY 23<br>MAY 11 | SEP 10<br>SEP 18<br>SEP 28                       | SEP 23<br>OCT 04<br>OCT 14 | OCT 06<br>OCT 20<br>OCT 30 | 149<br>175<br>193                                | 129<br>150<br>173 | 109<br>125<br>152 | 49<br>43<br>36                                    |  |
| WASTA                     | 36<br>32<br>28                | MAY 08<br>APR 25<br>APR 15                       | MAY 24<br>MAY 11<br>APR 30 | JUN 09<br>MAY 27<br>MAY 15 | SEP 01<br>SEP 09<br>SEP 20                       | SEP 15<br>SEP 25<br>OCT 03 | SEP 29<br>OCT 10<br>OCT 17 | 135<br>158<br>173                                | 113<br>136<br>155 | 92<br>114<br>138  | 54<br>47<br>40                                    |  |
| WATERTOWN FAA AIRPORT     | 36<br>32<br>28                | MAY 08<br>MAY 01<br>APR 19                       | MAY 22<br>MAY 14<br>MAY 03 | JUN 06<br>MAY 26<br>MAY 17 | SEP 03<br>SEP 11<br>SEP 25                       | SEP 17<br>SEP 25<br>OCT 08 | OCT 01<br>OCT 10<br>OCT 21 | 139<br>156<br>173                                | 117<br>134<br>157 | 96<br>112<br>141  | 55<br>50<br>43                                    |  |
| WEBSTER                   | 36<br>32<br>28                | MAY 08<br>APR 29<br>APR 22                       | MAY 24<br>MAY 10<br>MAY 04 | JUN 10<br>MAY 21<br>MAY 16 | SEP 07<br>SEP 10<br>SEP 21                       | SEP 16<br>SEP 24<br>OCT 06 | SEP 25<br>OCT 07<br>OCT 20 | 133<br>151<br>171                                | 114<br>136<br>154 | 95<br>121<br>137  | 55<br>50<br>44                                    |  |
| WENTWORTH 2 WNW           | 36<br>32<br>28                | MAY 07<br>APR 28<br>APR 16                       | MAY 20<br>MAY 10<br>APR 30 | JUN 02<br>MAY 21<br>MAY 15 | SEP 02<br>SEP 16<br>SEP 25                       | SEP 18<br>OCT 01<br>OCT 09 | OCT 03<br>OCT 15<br>OCT 23 | 142<br>159<br>177                                | 120<br>143<br>161 | 98<br>127<br>144  | 52<br>47<br>40                                    |  |
| WHITE LAKE                | 36<br>32<br>28                | MAY 02<br>APR 24<br>APR 15                       | MAY 20<br>MAY 08<br>MAY 02 | JUN 06<br>MAY 22<br>MAY 18 | SEP 10<br>SEP 17<br>SEP 25                       | SEP 20<br>SEP 30<br>OCT 10 | SEP 29<br>OCT 13<br>OCT 24 | 145<br>165<br>183                                | 122<br>145<br>160 | 100<br>124<br>137 | 52<br>46<br>39                                    |  |
| WINNER                    | 36<br>32<br>28                | MAY 02<br>APR 24<br>APR 07                       | MAY 16<br>MAY 07<br>APR 24 | MAY 31<br>MAY 19<br>MAY 11 | SEP 10<br>SEP 24<br>OCT 01                       | SEP 24<br>OCT 06<br>OCT 15 | OCT 09<br>OCT 18<br>OCT 30 | 151<br>171<br>192                                | 130<br>151<br>173 | 109<br>132<br>154 | 49<br>43<br>35                                    |  |
| WOOD                      | 36<br>32<br>28                | MAY 06<br>APR 24<br>APR 13                       | MAY 23<br>MAY 09<br>APR 30 | JUN 09<br>MAY 24<br>MAY 18 | SEP 03<br>SEP 16<br>SEP 27                       | SEP 20<br>SEP 30<br>OCT 11 | OCT 06<br>OCT 14<br>OCT 25 | 144<br>165<br>186                                | 119<br>144<br>163 | 94<br>122<br>140  | 50<br>44<br>36                                    |  |
| YANKTON 3 N               | 36<br>32<br>28                | APR 29<br>APR 19<br>APR 06                       | MAY 12<br>MAY 04<br>APR 20 | MAY 25<br>MAY 19<br>MAY 05 | SEP 12<br>SEP 20<br>OCT 02                       | SEP 26<br>OCT 04<br>OCT 17 | OCT 10<br>OCT 19<br>NOV 01 | 153<br>173<br>204                                | 136<br>152<br>179 | 119<br>131<br>154 | 51<br>46<br>39                                    |  |
| TENNESSEE                 |                               |  |                            |                            |  |                            |                            |  |                   |                   |   |  |
| ALLARDT                   | 36<br>32<br>28                | APR 21<br>APR 03<br>MAR 21                       | MAY 08<br>APR 22<br>APR 06 | MAY 24<br>MAY 11<br>APR 22 | SEP 25<br>OCT 03<br>OCT 16                       | OCT 07<br>OCT 16<br>OCT 30 | OCT 19<br>OCT 29<br>NOV 13 | 173<br>199<br>229                                | 152<br>176<br>207 | 130<br>154<br>185 | 34<br>27<br>19                                    |  |
| BOLIVAR WTR WKS           | 36<br>32<br>28                | APR 02<br>MAR 25<br>MAR 06                       | APR 16<br>APR 06<br>MAR 21 | MAY 01<br>APR 17<br>APR 06 | OCT 01<br>OCT 09<br>OCT 21                       | OCT 13<br>OCT 24<br>NOV 06 | OCT 25<br>NOV 08<br>NOV 22 | 195<br>216<br>251                                | 180<br>201<br>229 | 164<br>185<br>207 | 29<br>23<br>15                                    |  |
| BRISTOL WSO               | 36<br>32<br>28                | APR 17<br>APR 04<br>MAR 20                       | APR 30<br>APR 17<br>APR 03 | MAY 13<br>APR 30<br>APR 17 | OCT 01<br>OCT 09<br>OCT 17                       | OCT 13<br>OCT 21<br>NOV 01 | OCT 24<br>NOV 02<br>NOV 16 | 182<br>200<br>232                                | 165<br>186<br>212 | 148<br>173<br>191 | 33<br>26<br>19                                    |  |
| BROWNSVILLE               | 36<br>32<br>28                | MAR 28<br>MAR 19<br>MAR 06                       | APR 14<br>APR 01<br>MAR 20 | MAY 01<br>APR 14<br>APR 03 | OCT 05<br>OCT 16<br>OCT 28                       | OCT 17<br>OCT 29<br>NOV 10 | OCT 29<br>NOV 11<br>NOV 23 | 204<br>227<br>253                                | 185<br>210<br>234 | 166<br>193<br>215 | 26<br>19<br>13                                    |  |
| CELINA                    | 36<br>32<br>28                | APR 20<br>APR 07<br>MAR 23                       | MAY 05<br>APR 20<br>APR 07 | MAY 21<br>MAY 02<br>APR 22 | OCT 01<br>OCT 05<br>OCT 20                       | OCT 10<br>OCT 20<br>NOV 01 | OCT 20<br>NOV 03<br>NOV 13 | 175<br>198<br>229                                | 157<br>182<br>208 | 139<br>166<br>187 | 35<br>27<br>20                                    |  |
| CHATTANOOGA WSO           | 36<br>32<br>28                | APR 04<br>MAR 23<br>MAR 03                       | APR 19<br>APR 05<br>MAR 21 | MAY 03<br>APR 18<br>APR 09 | OCT 09<br>OCT 19<br>OCT 25                       | OCT 21<br>NOV 01<br>NOV 08 | NOV 02<br>NOV 14<br>NOV 22 | 203<br>230<br>252                                | 185<br>209<br>231 | 167<br>189<br>210 | 28<br>21<br>14                                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| TENNESSEE                 |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| CLARKSVILLE SEW PLT       | 36<br>32<br>28                | APR 12<br>MAR 29<br>MAR 12 | APR 27<br>APR 12<br>MAR 27 | MAY 12<br>APR 27<br>APR 12 | OCT 02<br>OCT 08<br>OCT 20 | OCT 14<br>OCT 22<br>NOV 02 | OCT 25<br>NOV 05<br>NOV 15 | 190<br>212<br>238       | 169<br>192<br>219 | 148<br>171<br>200 | 33<br>25<br>18                    |  |
| COLUMBIA SEWAGE PLANT     | 36<br>32<br>28                | APR 07<br>MAR 25<br>MAR 16 | APR 23<br>APR 08<br>MAR 28 | MAY 10<br>APR 23<br>APR 10 | OCT 01<br>OCT 05<br>OCT 22 | OCT 14<br>OCT 20<br>NOV 05 | OCT 26<br>NOV 04<br>NOV 19 | 195<br>213<br>240       | 173<br>194<br>221 | 151<br>175<br>203 | 30<br>23<br>16                    |  |
| COPPERHILL                | 36<br>32<br>28                | APR 21<br>APR 03<br>MAR 21 | MAY 06<br>APR 21<br>APR 05 | MAY 21<br>MAY 10<br>APR 21 | SEP 27<br>OCT 06<br>OCT 18 | OCT 08<br>OCT 18<br>NOV 03 | OCT 19<br>OCT 30<br>NOV 18 | 172<br>201<br>229       | 154<br>179<br>210 | 136<br>157<br>192 | 36<br>28<br>20                    |  |
| COVINGTON 1 W             | 36<br>32<br>28                | MAR 27<br>MAR 16<br>FEB 24 | APR 09<br>APR 31<br>MAR 13 | APR 22<br>APR 14<br>MAR 30 | OCT 07<br>OCT 17<br>OCT 30 | OCT 20<br>OCT 30<br>NOV 11 | NOV 01<br>NOV 13<br>NOV 23 | 210<br>235<br>261       | 193<br>213<br>242 | 176<br>191<br>224 | 28<br>21<br>14                    |  |
| CROSSVILLE EXP STA        | 36<br>32<br>28                | APR 24<br>APR 04<br>MAR 25 | MAY 10<br>APR 26<br>APR 08 | MAY 27<br>MAY 17<br>APR 23 | SEP 24<br>OCT 01<br>OCT 15 | OCT 06<br>OCT 15<br>OCT 26 | OCT 18<br>OCT 29<br>NOV 06 | 167<br>195<br>213       | 148<br>172<br>200 | 129<br>149<br>187 | 36<br>30<br>23                    |  |
| DICKSON                   | 36<br>32<br>28                | APR 06<br>MAR 27<br>MAR 13 | APR 24<br>APR 09<br>MAR 27 | MAY 12<br>APR 22<br>APR 10 | OCT 03<br>OCT 08<br>OCT 23 | OCT 15<br>OCT 22<br>NOV 04 | OCT 27<br>NOV 06<br>NOV 16 | 197<br>215<br>237       | 173<br>196<br>221 | 150<br>177<br>206 | 28<br>22<br>15                    |  |
| DOVER 1 W                 | 36<br>32<br>28                | APR 18<br>APR 04<br>MAR 25 | MAY 04<br>MAY 10<br>APR 05 | MAY 19<br>MAY 10<br>APR 16 | SEP 29<br>OCT 04<br>OCT 13 | OCT 08<br>OCT 14<br>OCT 28 | OCT 17<br>OCT 25<br>NOV 11 | 175<br>194<br>223       | 157<br>175<br>205 | 139<br>156<br>187 | 34<br>27<br>20                    |  |
| DYERSBURG FAA AP          | 36<br>32<br>28                | MAR 24<br>MAR 09<br>FEB 21 | APR 04<br>MAR 26<br>MAR 12 | APR 15<br>APR 12<br>MAR 30 | OCT 11<br>OCT 23<br>OCT 30 | OCT 23<br>NOV 04<br>NOV 13 | NOV 04<br>NOV 16<br>NOV 28 | 217<br>244<br>269       | 202<br>222<br>246 | 186<br>201<br>223 | 25<br>18<br>11                    |  |
| FRANKLIN SEWAGE PLANT     | 36<br>32<br>28                | APR 13<br>MAR 29<br>MAR 19 | APR 29<br>APR 14<br>APR 01 | MAY 15<br>APR 29<br>APR 13 | SEP 30<br>OCT 07<br>OCT 19 | OCT 11<br>OCT 21<br>NOV 02 | OCT 21<br>NOV 04<br>NOV 17 | 184<br>208<br>232       | 164<br>189<br>215 | 143<br>171<br>198 | 31<br>24<br>16                    |  |
| GATLINBURG 2 SW           | 36<br>32<br>28                | APR 26<br>APR 18<br>MAR 28 | MAY 11<br>MAY 01<br>APR 11 | MAY 26<br>MAY 13<br>APR 26 | SEP 25<br>OCT 03<br>OCT 11 | OCT 06<br>OCT 15<br>OCT 24 | OCT 17<br>OCT 26<br>NOV 06 | 166<br>183<br>213       | 147<br>166<br>195 | 128<br>150<br>178 | 38<br>31<br>22                    |  |
| GREENEVILLE EXP STA       | 36<br>32<br>28                | APR 24<br>APR 09<br>MAR 26 | MAY 06<br>MAY 08<br>APR 10 | MAY 18<br>MAY 08<br>APR 25 | OCT 01<br>OCT 08<br>OCT 16 | OCT 10<br>OCT 20<br>OCT 30 | OCT 19<br>OCT 31<br>NOV 13 | 170<br>195<br>224       | 156<br>179<br>202 | 142<br>162<br>180 | 34<br>27<br>19                    |  |
| JACKSON FAA AP            | 36<br>32<br>28                | MAR 29<br>MAR 23<br>MAR 06 | APR 11<br>APR 03<br>MAR 20 | APR 23<br>APR 15<br>APR 03 | OCT 06<br>OCT 15<br>OCT 27 | OCT 18<br>OCT 28<br>NOV 09 | OCT 30<br>NOV 11<br>NOV 22 | 204<br>223<br>253       | 190<br>207<br>233 | 175<br>192<br>214 | 27<br>20<br>13                    |  |
| JACKSON EXP STA           | 36<br>32<br>28                | MAR 31<br>MAR 25<br>MAR 12 | APR 18<br>APR 06<br>APR 08 | MAY 06<br>APR 18<br>APR 23 | OCT 02<br>OCT 11<br>OCT 23 | OCT 13<br>OCT 24<br>NOV 06 | OCT 25<br>NOV 06<br>NOV 19 | 197<br>216<br>244       | 178<br>200<br>225 | 158<br>184<br>205 | 29<br>22<br>15                    |  |
| KINGSPORT                 | 36<br>32<br>28                | APR 19<br>APR 03<br>MAR 17 | MAY 04<br>APR 16<br>MAR 31 | MAY 20<br>APR 29<br>APR 14 | OCT 01<br>OCT 07<br>OCT 18 | OCT 13<br>OCT 20<br>NOV 02 | OCT 25<br>NOV 02<br>NOV 18 | 181<br>201<br>237       | 161<br>187<br>215 | 142<br>172<br>194 | 31<br>24<br>16                    |  |
| KNOXVILLE U OF TENN       | 36<br>32<br>28                | MAR 27<br>MAR 18<br>FEB 25 | APR 09<br>MAR 29<br>MAR 14 | APR 22<br>APR 09<br>MAR 30 | OCT 13<br>OCT 23<br>NOV 01 | OCT 27<br>NOV 06<br>NOV 15 | NOV 10<br>NOV 20<br>NOV 29 | 214<br>241<br>266       | 200<br>221<br>245 | 186<br>202<br>225 | 26<br>18<br>11                    |  |
| LENOIR CITY               | 36<br>32<br>28                | APR 13<br>MAR 31<br>MAR 13 | APR 25<br>APR 13<br>APR 12 | MAY 07<br>APR 25<br>APR 12 | OCT 07<br>OCT 14<br>OCT 25 | OCT 18<br>OCT 27<br>NOV 08 | OCT 30<br>NOV 09<br>NOV 21 | 191<br>213<br>242       | 175<br>197<br>224 | 159<br>181<br>205 | 33<br>26<br>18                    |  |
| LEWISBURG EXP STA         | 36<br>32<br>28                | APR 13<br>MAR 30<br>MAR 19 | APR 29<br>APR 15<br>APR 01 | MAY 15<br>MAY 01<br>APR 14 | SEP 30<br>OCT 07<br>OCT 15 | OCT 12<br>OCT 20<br>OCT 30 | OCT 25<br>NOV 02<br>NOV 14 | 187<br>206<br>228       | 166<br>187<br>211 | 144<br>168<br>194 | 33<br>26<br>19                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY <sup>(4)</sup> * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|--|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |  |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |  |  |
| TENNESSEE                 |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |  |  |
| MARTIN U OF T BRANCH      | 36<br>32<br>28                | MAR 31<br>MAR 24<br>MAR 10 | APR 17<br>APR 07<br>MAR 25 | MAY 04<br>APR 21<br>APR 10 | OCT 03<br>OCT 13<br>OCT 25 | OCT 17<br>OCT 25<br>NOV 09 | OCT 30<br>NOV 07<br>NOV 23 | 201<br>218<br>247       | 182<br>201<br>227 | 163<br>184<br>207 | 29<br>22<br>15                               |  |
| MC MINNVILLE              | 36<br>32<br>28                | APR 10<br>MAR 27<br>MAR 14 | APR 27<br>APR 11<br>MAR 28 | MAY 15<br>APR 26<br>APR 11 | OCT 02<br>OCT 08<br>OCT 21 | OCT 14<br>OCT 23<br>NOV 04 | OCT 26<br>NOV 07<br>NOV 18 | 192<br>213<br>241       | 169<br>194<br>220 | 146<br>176<br>199 | 30<br>22<br>15                               |  |
| MEMPHIS WSO               | 36<br>32<br>28                | MAR 21<br>MAR 08<br>FEB 19 | APR 03<br>APR 23<br>MAR 09 | APR 16<br>APR 08<br>MAR 27 | OCT 18<br>OCT 27<br>OCT 31 | OCT 31<br>NOV 07<br>NOV 18 | NOV 13<br>NOV 19<br>DEC 06 | 232<br>249<br>281       | 210<br>228<br>253 | 189<br>207<br>226 | 23<br>16<br>10                               |  |
| MILAN                     | 36<br>32<br>28                | APR 05<br>MAR 24<br>MAR 11 | APR 20<br>APR 05<br>MAR 26 | MAY 05<br>APR 16<br>APR 09 | OCT 01<br>OCT 10<br>OCT 20 | OCT 11<br>OCT 23<br>NOV 03 | OCT 21<br>NOV 04<br>NOV 17 | 191<br>215<br>239       | 173<br>200<br>222 | 155<br>185<br>205 | 30<br>23<br>17                               |  |
| MONTEAGLE                 | 36<br>32<br>28                | APR 09<br>MAR 26<br>MAR 16 | APR 27<br>APR 11<br>MAR 30 | MAY 14<br>APR 27<br>APR 13 | OCT 07<br>OCT 15<br>OCT 26 | OCT 19<br>OCT 29<br>NOV 08 | OCT 30<br>NOV 11<br>NOV 21 | 195<br>219<br>243       | 174<br>200<br>222 | 154<br>181<br>201 | 28<br>22<br>15                               |  |
| MURFREESBORO 5 N          | 36<br>32<br>28                | APR 07<br>MAR 27<br>MAR 09 | APR 24<br>APR 10<br>MAR 24 | MAY 11<br>APR 23<br>APR 09 | OCT 03<br>OCT 09<br>OCT 22 | OCT 14<br>OCT 22<br>NOV 06 | OCT 25<br>NOV 04<br>NOV 20 | 193<br>215<br>243       | 173<br>195<br>225 | 153<br>175<br>208 | 29<br>23<br>16                               |  |
| NASHVILLE WSO             | 36<br>32<br>28                | APR 01<br>MAR 24<br>MAR 07 | APR 16<br>APR 05<br>MAR 22 | APR 30<br>APR 16<br>APR 06 | OCT 07<br>OCT 14<br>OCT 27 | OCT 21<br>OCT 29<br>NOV 09 | NOV 03<br>NOV 13<br>NOV 22 | 204<br>224<br>246       | 187<br>207<br>231 | 170<br>189<br>216 | 28<br>21<br>14                               |  |
| NEWBERN                   | 36<br>32<br>28                | MAR 29<br>MAR 20<br>MAR 06 | APR 18<br>APR 01<br>APR 23 | MAY 08<br>APR 12<br>APR 09 | SEP 29<br>OCT 10<br>OCT 21 | OCT 15<br>OCT 24<br>NOV 02 | OCT 30<br>NOV 08<br>NOV 15 | 206<br>223<br>247       | 179<br>206<br>223 | 152<br>189<br>200 | 30<br>23<br>16                               |  |
| NEWPORT 1 NW              | 36<br>32<br>28                | APR 16<br>APR 02<br>MAR 15 | MAY 01<br>MAY 01<br>MAR 30 | MAY 16<br>MAY 01<br>APR 14 | OCT 02<br>OCT 09<br>OCT 18 | OCT 12<br>OCT 21<br>NOV 01 | OCT 21<br>NOV 03<br>NOV 16 | 181<br>206<br>238       | 163<br>187<br>215 | 144<br>168<br>192 | 34<br>27<br>19                               |  |
| OAK RIDGE WSO             | 36<br>32<br>28                | APR 09<br>MAR 28<br>MAR 12 | APR 26<br>APR 11<br>MAR 27 | MAY 13<br>APR 26<br>APR 12 | OCT 04<br>OCT 14<br>OCT 26 | OCT 18<br>OCT 27<br>NOV 07 | NOV 01<br>NOV 10<br>NOV 19 | 196<br>217<br>241       | 174<br>199<br>223 | 152<br>180<br>206 | 31<br>23<br>16                               |  |
| PARIS 5 E                 | 36<br>32<br>28                | APR 09<br>MAR 28<br>MAR 19 | APR 26<br>APR 11<br>MAR 31 | MAY 13<br>APR 24<br>APR 12 | SEP 30<br>OCT 09<br>OCT 22 | OCT 11<br>OCT 22<br>NOV 05 | OCT 22<br>NOV 05<br>NOV 14 | 187<br>212<br>233       | 167<br>194<br>216 | 147<br>176<br>199 | 33<br>26<br>19                               |  |
| ROGERSVILLE 1 NE          | 36<br>32<br>28                | APR 16<br>APR 06<br>MAR 18 | MAY 03<br>APR 22<br>APR 06 | MAY 19<br>MAY 07<br>APR 25 | SEP 30<br>OCT 04<br>OCT 13 | OCT 09<br>OCT 17<br>OCT 26 | OCT 18<br>OCT 31<br>NOV 07 | 178<br>195<br>223       | 158<br>178<br>202 | 139<br>160<br>181 | 34<br>27<br>20                               |  |
| SAMBURG WILDLIFE REF      | 36<br>32<br>28                | MAR 29<br>MAR 23<br>MAR 11 | APR 15<br>APR 04<br>MAR 24 | MAY 03<br>APR 16<br>APR 06 | OCT 03<br>OCT 14<br>OCT 24 | OCT 14<br>OCT 25<br>NOV 08 | OCT 25<br>NOV 05<br>NOV 22 | 205<br>218<br>245       | 181<br>204<br>228 | 158<br>189<br>210 | 30<br>23<br>15                               |  |
| SAVANNAH                  | 36<br>32<br>28                | APR 07<br>MAR 27<br>MAR 14 | APR 24<br>APR 09<br>MAR 28 | MAY 11<br>APR 22<br>APR 11 | OCT 03<br>OCT 12<br>OCT 24 | OCT 14<br>OCT 25<br>NOV 04 | OCT 25<br>NOV 07<br>NOV 16 | 191<br>215<br>237       | 172<br>198<br>221 | 154<br>181<br>204 | 27<br>21<br>14                               |  |
| SHELBYVILLE 3             | 36<br>32<br>28                | APR 13<br>MAR 30<br>MAR 18 | APR 28<br>APR 15<br>APR 31 | MAY 14<br>APR 30<br>APR 13 | SEP 30<br>OCT 06<br>OCT 18 | OCT 11<br>OCT 21<br>OCT 31 | OCT 22<br>NOV 05<br>NOV 13 | 183<br>208<br>227       | 165<br>189<br>213 | 147<br>170<br>198 | 29<br>22<br>16                               |  |
| SPRINGFIELD EXP STA       | 36<br>32<br>28                | APR 12<br>MAR 27<br>MAR 16 | APR 29<br>APR 10<br>MAR 28 | MAY 16<br>APR 24<br>APR 10 | SEP 28<br>OCT 07<br>OCT 21 | OCT 13<br>OCT 19<br>NOV 03 | OCT 27<br>NOV 01<br>NOV 15 | 187<br>209<br>238       | 166<br>192<br>219 | 145<br>174<br>199 | 32<br>25<br>18                               |  |
| TULLAHOMA                 | 36<br>32<br>28                | APR 07<br>MAR 28<br>MAR 18 | APR 25<br>APR 09<br>MAR 30 | MAY 12<br>APR 21<br>APR 12 | OCT 03<br>OCT 08<br>OCT 23 | OCT 15<br>OCT 21<br>NOV 05 | OCT 27<br>NOV 04<br>NOV 18 | 193<br>210<br>237       | 172<br>195<br>219 | 151<br>180<br>200 | 28<br>21<br>14                               |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                   |  |
| TENNESSEE                 |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                   |  |
| UNION CITY                | 36<br>32<br>28                | APR 03<br>MAR 23<br>MAR 14 | APR 22<br>APR 06<br>MAR 27 | MAY 11<br>APR 20<br>APR 09 | SEP 28<br>OCT 06<br>OCT 22 | OCT 10<br>OCT 20<br>NOV 04 | OCT 22<br>NOV 02<br>NOV 17 | 192<br>215<br>239          | 171<br>196<br>221 | 150<br>177<br>203 | 34<br>26<br>19                    |  |
| WATAUGA DAM               | 36<br>32<br>28                | APR 18<br>APR 02<br>MAR 16 | MAY 03<br>APR 21<br>APR 05 | MAY 18<br>MAY 09<br>APR 25 | OCT 01<br>OCT 08<br>OCT 14 | OCT 15<br>OCT 23<br>OCT 31 | OCT 29<br>NOV 06<br>NOV 18 | 187<br>209<br>238          | 164<br>184<br>208 | 142<br>159<br>179 | 36<br>28<br>20                    |  |
| WAYNESBORO                | 36<br>32<br>28                | APR 21<br>APR 11<br>MAR 27 | MAY 09<br>APR 27<br>APR 10 | MAY 26<br>MAY 13<br>APR 24 | SEP 21<br>SEP 28<br>OCT 09 | OCT 03<br>OCT 11<br>OCT 23 | OCT 15<br>OCT 23<br>NOV 05 | 167<br>187<br>212          | 147<br>166<br>195 | 126<br>145<br>178 | 37<br>30<br>23                    |  |
| TEXAS                     |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                   |  |
| ABILENE WSO               | 36<br>32<br>28                | MAR 21<br>MAR 10<br>FEB 28 | APR 05<br>MAR 25<br>MAR 18 | APR 19<br>APR 08<br>APR 04 | OCT 17<br>OCT 28<br>NOV 03 | NOV 03<br>NOV 13<br>NOV 23 | NOV 19<br>NOV 30<br>DEC 13 | 233<br>257<br>280          | 211<br>233<br>250 | 189<br>209<br>219 | 21<br>15<br>9                     |  |
| ALBANY                    | 36<br>32<br>28                | MAR 26<br>MAR 16<br>MAR 06 | APR 11<br>MAR 31<br>MAR 23 | APR 27<br>APR 15<br>APR 09 | OCT 11<br>OCT 18<br>OCT 26 | OCT 24<br>NOV 03<br>NOV 15 | NOV 06<br>NOV 20<br>DEC 05 | 216<br>240<br>264          | 196<br>217<br>236 | 175<br>194<br>208 | 27<br>19<br>12                    |  |
| ALPINE                    | 36<br>32<br>28                | APR 01<br>MAR 17<br>MAR 02 | APR 18<br>APR 05<br>MAR 25 | MAY 05<br>APR 25<br>APR 16 | OCT 08<br>OCT 13<br>OCT 21 | OCT 24<br>NOV 04<br>NOV 13 | NOV 09<br>NOV 27<br>DEC 05 | 217<br>248<br>268          | 188<br>212<br>233 | 160<br>177<br>197 | 24<br>17<br>11                    |  |
| AMARILLO WSO              | 36<br>32<br>28                | APR 14<br>MAR 29<br>MAR 20 | APR 26<br>APR 14<br>APR 04 | MAY 09<br>APR 30<br>APR 19 | OCT 08<br>OCT 14<br>OCT 20 | OCT 20<br>OCT 29<br>NOV 05 | NOV 01<br>NOV 13<br>NOV 20 | 192<br>222<br>236          | 176<br>197<br>214 | 161<br>172<br>191 | 38<br>30<br>22                    |  |
| ANGLETON 2 W              | 36<br>32<br>28                | MAR 02<br>FEB 07<br>JAN 17 | MAR 18<br>MAR 03<br>FEB 13 | APR 03<br>MAR 27<br>MAR 12 | OCT 26<br>NOV 06<br>NOV 13 | NOV 14<br>NOV 29<br>DEC 12 | DEC 03<br>DEC 22<br>JAN 10 | 261<br>301<br>335          | 240<br>271<br>301 | 219<br>240<br>267 | 9<br>5<br>2                       |  |
| AUSTIN WSO                | 36<br>32<br>28                | FEB 28<br>FEB 14<br>JAN 14 | MAR 16<br>MAR 03<br>FEB 11 | MAR 31<br>MAR 21<br>MAR 11 | NOV 01<br>NOV 05<br>NOV 20 | NOV 16<br>NOV 28<br>DEC 13 | DEC 01<br>DEC 21<br>JAN 04 | 264<br>300<br>338          | 244<br>269<br>304 | 225<br>239<br>271 | 11<br>6<br>3                      |  |
| BALLINGER 1 SW            | 36<br>32<br>28                | MAR 24<br>MAR 14<br>MAR 02 | APR 10<br>MAR 29<br>MAR 21 | APR 28<br>APR 12<br>APR 08 | OCT 10<br>OCT 22<br>OCT 29 | OCT 26<br>NOV 05<br>NOV 14 | NOV 12<br>NOV 19<br>NOV 30 | 222<br>240<br>257          | 198<br>221<br>238 | 174<br>202<br>219 | 25<br>18<br>12                    |  |
| BAY CITY WATERWORKS       | 36<br>32<br>28                | FEB 20<br>JAN 22<br>JAN 08 | MAR 09<br>FEB 17<br>FEB 01 | MAR 26<br>MAR 15<br>FEB 25 | NOV 02<br>NOV 14<br>NOV 29 | NOV 22<br>DEC 07<br>DEC 27 | DEC 13<br>DEC 29<br>JAN 28 | 283<br>324<br>>365         | 258<br>292<br>327 | 232<br>260<br>297 | 8<br>4<br>2                       |  |
| BEEVILLE 5 NE             | 36<br>32<br>28                | FEB 24<br>JAN 26<br>JAN 08 | MAR 14<br>FEB 20<br>FEB 05 | MAR 31<br>MAR 16<br>MAR 04 | NOV 02<br>NOV 12<br>NOV 24 | NOV 21<br>DEC 05<br>DEC 19 | DEC 09<br>DEC 27<br>JAN 16 | 276<br>315<br>359          | 251<br>287<br>317 | 226<br>260<br>285 | 8<br>4<br>2                       |  |
| BIG SPRING                | 36<br>32<br>28                | MAR 23<br>MAR 06<br>FEB 26 | APR 06<br>MAR 26<br>MAR 16 | APR 20<br>APR 15<br>APR 03 | OCT 21<br>OCT 30<br>NOV 09 | NOV 04<br>NOV 13<br>NOV 25 | NOV 19<br>NOV 27<br>DEC 10 | 229<br>257<br>276          | 211<br>231<br>253 | 193<br>205<br>230 | 24<br>17<br>10                    |  |
| BLANCO                    | 36<br>32<br>28                | MAR 20<br>MAR 04<br>FEB 22 | APR 03<br>MAR 23<br>MAR 11 | APR 16<br>APR 12<br>MAR 27 | OCT 15<br>OCT 21<br>NOV 01 | OCT 28<br>NOV 08<br>NOV 22 | NOV 11<br>NOV 25<br>DEC 12 | 227<br>254<br>284          | 208<br>229<br>255 | 189<br>203<br>227 | 21<br>14<br>9                     |  |
| BOERNE                    | 36<br>32<br>28                | MAR 21<br>MAR 08<br>FEB 21 | APR 05<br>MAR 25<br>MAR 13 | APR 20<br>APR 11<br>APR 02 | OCT 13<br>OCT 23<br>OCT 30 | OCT 28<br>NOV 09<br>NOV 17 | NOV 13<br>NOV 26<br>DEC 06 | 229<br>253<br>275          | 206<br>228<br>248 | 183<br>204<br>221 | 18<br>12<br>7                     |  |
| BORGER 3 W                | 36<br>32<br>28                | APR 05<br>MAR 26<br>MAR 20 | APR 21<br>APR 12<br>APR 02 | MAY 07<br>APR 29<br>APR 15 | OCT 08<br>OCT 14<br>OCT 25 | OCT 20<br>OCT 28<br>NOV 07 | OCT 31<br>NOV 11<br>NOV 19 | 202<br>219<br>237          | 181<br>199<br>218 | 160<br>178<br>199 | 35<br>27<br>19                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)                |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                    |                    | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|--------------------|--------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *      |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                    |                    |                                   |  |
|                           |                               | 90                           | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                 | 90                 |                                   |  |
| TEXAS                     |                               |                              |                            |                            |                            |                            |                            |                         |                    |                    |                                   |  |
| BRADY 2 NNW               | 36<br>32<br>28                | MAR 19<br>MAR 09<br>FEB 21   | APR 03<br>MAR 25<br>MAR 15 | APR 19<br>APR 10<br>APR 06 | OCT 19<br>OCT 28<br>OCT 31 | NOV 02<br>NOV 09<br>NOV 19 | NOV 17<br>NOV 21<br>DEC 07 | 233<br>246<br>274       | 212<br>228<br>248  | 191<br>210<br>221  | 24<br>17<br>10                    |  |
| BRENHAM                   | 36<br>32<br>28                | FEB 28<br>FEB 03<br>JAN 15   | MAR 16<br>FEB 28<br>FEB 12 | MAR 31<br>MAR 25<br>MAR 11 | OCT 30<br>NOV 07<br>NOV 21 | NOV 20<br>DEC 01<br>DEC 16 | DEC 10<br>DEC 24<br>JAN 11 | 273<br>310<br>344       | 249<br>275<br>306  | 224<br>240<br>271  | 11<br>7<br>3                      |  |
| BRIDGEPORT                | 36<br>32<br>28                | MAR 22<br>MAR 09<br>FEB 28   | APR 04<br>MAR 25<br>MAR 16 | APR 17<br>APR 10<br>MAR 31 | OCT 11<br>OCT 22<br>OCT 30 | OCT 27<br>NOV 07<br>NOV 20 | NOV 12<br>NOV 22<br>DEC 10 | 225<br>248<br>272       | 205<br>226<br>248  | 185<br>204<br>225  | 26<br>18<br>12                    |  |
| BROWNSVILLE WSO           | 36<br>32<br>28                | DEC 30<br>-<br>-             | FEB 06<br>DEC 31<br>-      | MAR 07<br>FEB 15<br>JAN 20 | NOV 24<br>DEC 17<br>JAN 03 | DEC 24<br>FEB 02<br>-      | -                          | >365<br>>365<br>>365    | 322<br>329<br>>365 | 284<br>329<br>>365 | 2<br>1<br>0                       |  |
| BROWNWOOD                 | 36<br>32<br>28                | MAR 19<br>MAR 07<br>FEB 16   | APR 02<br>MAR 22<br>MAR 06 | APR 15<br>APR 05<br>MAR 23 | OCT 21<br>OCT 31<br>NOV 08 | NOV 04<br>NOV 15<br>NOV 27 | NOV 18<br>NOV 30<br>DEC 15 | 234<br>255<br>290       | 216<br>238<br>265  | 197<br>221<br>240  | 21<br>14<br>8                     |  |
| CAMERON                   | 36<br>32<br>28                | MAR 08<br>FEB 26<br>JAN 23   | MAR 24<br>MAR 14<br>FEB 19 | APR 09<br>MAR 30<br>MAR 18 | OCT 24<br>OCT 31<br>NOV 09 | NOV 07<br>NOV 20<br>DEC 05 | NOV 22<br>DEC 10<br>JAN 01 | 247<br>276<br>328       | 228<br>250<br>289  | 208<br>225<br>250  | 12<br>8<br>4                      |  |
| CANYON                    | 36<br>32<br>28                | APR 17<br>MAR 28<br>MAR 20   | APR 29<br>APR 13<br>APR 05 | MAY 11<br>APR 29<br>APR 20 | OCT 04<br>OCT 12<br>OCT 18 | OCT 16<br>OCT 26<br>NOV 03 | OCT 28<br>NOV 09<br>NOV 18 | 188<br>219<br>235       | 170<br>196<br>211  | 151<br>173<br>187  | 37<br>29<br>21                    |  |
| CENTER                    | 36<br>32<br>28                | MAR 17<br>MARCH 07<br>FEB 13 | APR 01<br>MAR 22<br>MAR 05 | APR 16<br>APR 05<br>APR 20 | OCT 12<br>OCT 22<br>NOV 05 | OCT 27<br>NOV 08<br>NOV 21 | NOV 11<br>NOV 25<br>DEC 07 | 231<br>251<br>286       | 208<br>230<br>260  | 185<br>210<br>234  | 21<br>14<br>8                     |  |
| CENTERVILLE               | 36<br>32<br>28                | MAR 18<br>MAR 03<br>FEB 06   | MAR 31<br>MAR 20<br>MAR 04 | APR 12<br>APR 06<br>MAR 30 | OCT 15<br>OCT 23<br>NOV 05 | OCT 30<br>NOV 09<br>NOV 26 | NOV 15<br>NOV 26<br>DEC 17 | 233<br>258<br>302       | 213<br>233<br>266  | 192<br>209<br>230  | 17<br>12<br>7                     |  |
| CHILDRESS FAA AIRPORT     | 36<br>32<br>28                | MAR 27<br>MAR 16<br>MARCH 07 | APR 09<br>APR 12<br>MAR 23 | APR 23<br>APR 12<br>APR 08 | OCT 14<br>OCT 26<br>NOV 01 | OCT 29<br>NOV 07<br>NOV 16 | NOV 13<br>NOV 19<br>DEC 01 | 223<br>241<br>260       | 202<br>222<br>237  | 181<br>203<br>215  | 29<br>21<br>14                    |  |
| CHISOS BASIN              | 36<br>32<br>28                | MAR 13<br>FEB 25<br>FEB 17   | MAR 29<br>MAR 18<br>MAR 14 | APR 14<br>APR 07<br>APR 07 | OCT 16<br>OCT 25<br>OCT 31 | NOV 04<br>NOV 14<br>NOV 26 | NOV 22<br>DEC 04<br>DEC 21 | 244<br>268<br>289       | 219<br>240<br>256  | 194<br>213<br>224  | 15<br>9<br>5                      |  |
| CLARENDON                 | 36<br>32<br>28                | APR 10<br>MAR 30<br>MAR 19   | APR 25<br>APR 12<br>APR 01 | MAY 10<br>APR 25<br>APR 15 | OCT 01<br>OCT 12<br>OCT 26 | OCT 14<br>OCT 27<br>NOV 07 | OCT 27<br>NOV 10<br>NOV 20 | 192<br>218<br>238       | 172<br>197<br>219  | 151<br>176<br>201  | 38<br>30<br>23                    |  |
| CLARKSVILLE 2 NE          | 36<br>32<br>28                | MAR 21<br>MARCH 12<br>FEB 22 | APR 03<br>MAR 26<br>MAR 12 | APR 17<br>APR 10<br>MAR 30 | OCT 13<br>OCT 25<br>OCT 29 | OCT 27<br>NOV 08<br>NOV 19 | NOV 11<br>NOV 21<br>DEC 09 | 225<br>244<br>278       | 206<br>226<br>251  | 187<br>207<br>224  | 24<br>18<br>11                    |  |
| CLEBURNE                  | 36<br>32<br>28                | MAR 21<br>MARCH 05<br>FEB 18 | APR 03<br>MAR 22<br>MAR 07 | APR 16<br>APR 08<br>MAR 25 | OCT 18<br>OCT 24<br>OCT 30 | NOV 01<br>NOV 10<br>NOV 21 | NOV 14<br>NOV 27<br>DEC 12 | 229<br>255<br>288       | 211<br>232<br>258  | 194<br>209<br>227  | 19<br>13<br>7                     |  |
| COLEMAN                   | 36<br>32<br>28                | MAR 20<br>MARCH 09<br>FEB 26 | APR 04<br>APR 10<br>MAR 14 | APR 18<br>APR 10<br>MAR 30 | OCT 21<br>OCT 25<br>NOV 02 | NOV 04<br>NOV 10<br>NOV 22 | NOV 17<br>NOV 26<br>DEC 13 | 234<br>251<br>277       | 213<br>229<br>252  | 192<br>207<br>227  | 20<br>14<br>8                     |  |
| COLLEGE STATION FAA AP    | 36<br>32<br>28                | FEB 28<br>FEB 14<br>JAN 19   | MAR 18<br>MAR 07<br>FEB 17 | APR 06<br>MAR 27<br>MAR 18 | OCT 22<br>NOV 05<br>NOV 18 | NOV 12<br>NOV 28<br>DEC 09 | DEC 03<br>DEC 21<br>DEC 30 | 264<br>295<br>325       | 238<br>266<br>294  | 212<br>237<br>264  | 11<br>6<br>3                      |  |
| CONROE                    | 36<br>32<br>28                | MAR 06<br>FEB 14<br>JAN 16   | MAR 22<br>MAR 05<br>FEB 13 | APR 06<br>MAR 24<br>MAR 14 | OCT 22<br>NOV 06<br>NOV 12 | NOV 09<br>NOV 25<br>DEC 07 | NOV 28<br>DEC 14<br>JAN 02 | 255<br>291<br>331       | 232<br>264<br>296  | 209<br>237<br>262  | 13<br>8<br>4                      |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| TEXAS                     |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| CORPUS CHRISTI            | 36<br>32<br>28                | JAN 12<br>-<br>-           | FEB 09<br>JAN 25<br>FEB 05 | MAR 09<br>FEB 23<br>FEB 05 | NOV 23<br>DEC 07<br>DEC 27 | DEC 18<br>JAN 11<br>-      | JAN 12<br>-<br>-           | 346<br>>365<br>>365     | 311<br>350<br>349 | 276<br>313<br>349 | 2<br>1<br>0                       |  |
| CORSICANA                 | 36<br>32<br>28                | MAR 08<br>FEB 24<br>FEB 02 | MAR 25<br>MAR 15<br>FEB 24 | APR 10<br>APR 02<br>MAR 19 | OCT 25<br>OCT 31<br>NOV 08 | NOV 08<br>NOV 20<br>DEC 04 | NOV 22<br>DEC 11<br>DEC 30 | 250<br>279<br>313       | 228<br>250<br>282 | 207<br>220<br>251 | 18<br>12<br>7                     |  |
| COTULLA FAA AIRPORT       | 36<br>32<br>28                | FEB 17<br>JAN 31<br>JAN 04 | MAR 08<br>FEB 24<br>FEB 05 | MAR 27<br>MAR 19<br>MAR 02 | NOV 04<br>NOV 10<br>NOV 19 | NOV 19<br>DEC 01<br>DEC 23 | DEC 04<br>DEC 23<br>-      | 278<br>310<br>>365      | 255<br>280<br>317 | 232<br>249<br>282 | 7<br>4<br>2                       |  |
| CROCKETT                  | 36<br>32<br>28                | MAR 13<br>MAR 03<br>FEB 10 | MAR 28<br>MAR 17<br>MAR 02 | APR 13<br>MAR 31<br>MAR 22 | OCT 20<br>OCT 26<br>NOV 11 | NOV 05<br>NOV 15<br>DEC 03 | NOV 21<br>DEC 05<br>DEC 24 | 243<br>262<br>307       | 221<br>242<br>275 | 199<br>222<br>243 | 18<br>12<br>7                     |  |
| CROSBYTON                 | 36<br>32<br>28                | APR 01<br>MAR 24<br>MAR 16 | APR 20<br>APR 08<br>APR 13 | MAY 08<br>APR 22<br>APR 13 | OCT 09<br>OCT 15<br>OCT 30 | OCT 23<br>NOV 02<br>NOV 12 | NOV 06<br>NOV 19<br>NOV 25 | 209<br>230<br>245       | 186<br>207<br>226 | 162<br>184<br>207 | 35<br>28<br>20                    |  |
| CRYSTAL CITY              | 36<br>32<br>28                | FEB 15<br>JAN 31<br>JAN 15 | MAR 07<br>FEB 26<br>FEB 08 | MAR 27<br>MAR 24<br>MAR 04 | OCT 31<br>NOV 08<br>NOV 19 | NOV 16<br>DEC 01<br>DEC 20 | DEC 03<br>DEC 24<br>JAN 24 | 278<br>307<br>>365      | 253<br>277<br>314 | 228<br>247<br>278 | 8<br>4<br>2                       |  |
| DALHART FAA AIRPORT       | 36<br>32<br>28                | APR 20<br>APR 11<br>MAR 24 | MAY 02<br>APR 25<br>APR 10 | MAY 15<br>MAY 09<br>APR 27 | SEP 29<br>OCT 11<br>OCT 15 | OCT 12<br>OCT 22<br>OCT 29 | OCT 24<br>NOV 01<br>NOV 12 | 181<br>194<br>223       | 162<br>179<br>201 | 143<br>164<br>179 | 44<br>37<br>29                    |  |
| DANEVANG 2 SE             | 36<br>32<br>28                | FEB 22<br>JAN 27<br>JAN 08 | MAR 12<br>FEB 23<br>FEB 04 | MAR 30<br>MAR 21<br>MAR 02 | OCT 28<br>NOV 12<br>NOV 16 | NOV 20<br>DEC 05<br>DEC 19 | DEC 13<br>DEC 28<br>JAN 24 | 280<br>317<br>>365      | 252<br>284<br>316 | 225<br>251<br>283 | 7<br>3<br>1                       |  |
| DENISON DAM               | 36<br>32<br>28                | MAR 19<br>MAR 04<br>FEB 18 | APR 02<br>MAR 21<br>MAR 08 | APR 15<br>APR 08<br>MAR 25 | OCT 20<br>OCT 27<br>NOV 05 | NOV 04<br>NOV 12<br>NOV 26 | NOV 18<br>NOV 28<br>DEC 17 | 235<br>259<br>291       | 215<br>235<br>263 | 195<br>211<br>235 | 21<br>15<br>9                     |  |
| DENTON 2 SE               | 36<br>32<br>28                | MAR 14<br>MAR 09<br>FEB 21 | APR 01<br>MAR 25<br>MAR 10 | APR 20<br>APR 11<br>MAR 27 | OCT 19<br>OCT 26<br>NOV 05 | NOV 04<br>NOV 12<br>NOV 27 | NOV 20<br>NOV 29<br>DEC 18 | 241<br>253<br>290       | 216<br>231<br>261 | 191<br>210<br>231 | 20<br>14<br>8                     |  |
| DILLEY                    | 36<br>32<br>28                | FEB 21<br>FEB 03<br>JAN 12 | MAR 13<br>FEB 27<br>FEB 09 | APR 02<br>MAR 23<br>MAR 06 | NOV 01<br>NOV 08<br>NOV 19 | NOV 17<br>NOV 29<br>DEC 14 | DEC 04<br>DEC 20<br>JAN 15 | 268<br>303<br>>365      | 249<br>275<br>309 | 229<br>246<br>278 | 11<br>6<br>2                      |  |
| DUBLIN                    | 36<br>32<br>28                | MAR 21<br>MAR 05<br>FEB 19 | APR 03<br>MAR 21<br>MAR 11 | APR 16<br>APR 07<br>MAR 31 | OCT 21<br>OCT 29<br>NOV 06 | NOV 05<br>NOV 15<br>NOV 27 | NOV 19<br>DEC 02<br>DEC 18 | 233<br>263<br>290       | 215<br>238<br>261 | 197<br>213<br>231 | 21<br>15<br>9                     |  |
| EAGLE PASS                | 36<br>32<br>28                | FEB 10<br>JAN 30<br>JAN 04 | MAR 05<br>FEB 22<br>FEB 01 | MAR 28<br>MAR 18<br>FEB 27 | OCT 31<br>NOV 10<br>NOV 25 | NOV 18<br>DEC 03<br>DEC 19 | DEC 06<br>DEC 26<br>JAN 19 | 284<br>309<br>>365      | 257<br>283<br>320 | 231<br>256<br>295 | 11<br>6<br>2                      |  |
| EDEN 1                    | 36<br>32<br>28                | MAR 23<br>MAR 14<br>MAR 02 | APR 08<br>MAR 31<br>MAR 19 | APR 24<br>APR 16<br>APR 05 | OCT 12<br>OCT 24<br>OCT 30 | OCT 27<br>NOV 08<br>NOV 15 | NOV 10<br>NOV 23<br>DEC 01 | 223<br>243<br>265       | 201<br>222<br>241 | 179<br>201<br>217 | 20<br>14<br>9                     |  |
| ENCINAL 3 NW              | 36<br>32<br>28                | FEB 28<br>JAN 28<br>JAN 07 | MAR 17<br>FEB 26<br>FEB 09 | APR 03<br>MAR 26<br>MAR 11 | OCT 31<br>NOV 04<br>NOV 17 | NOV 16<br>NOV 27<br>DEC 11 | DEC 03<br>DEC 19<br>JAN 06 | 265<br>308<br>>365      | 243<br>273<br>301 | 221<br>238<br>268 | 11<br>6<br>3                      |  |
| FALFURRIAS                | 36<br>32<br>28                | FEB 04<br>JAN 23<br>-      | MAR 02<br>FEB 17<br>JAN 29 | MAR 28<br>MAR 13<br>MAR 01 | NOV 04<br>NOV 08<br>DEC 01 | NOV 24<br>DEC 06<br>DEC 30 | DEC 13<br>JAN 06<br>-      | 298<br>341<br>>365      | 266<br>293<br>336 | 234<br>255<br>300 | 7<br>3<br>1                       |  |
| FLATONIA 2 W              | 36<br>32<br>28                | FEB 26<br>FEB 11<br>JAN 18 | MAR 17<br>MAR 08<br>FEB 14 | APR 04<br>APR 02<br>MAR 13 | OCT 27<br>NOV 08<br>NOV 12 | NOV 14<br>DEC 01<br>DEC 12 | DEC 03<br>DEC 25<br>JAN 10 | 269<br>300<br>340       | 242<br>268<br>298 | 215<br>235<br>260 | 10<br>6<br>3                      |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                    |                   | FREEZE/FROST<br>PROBABILITY *<br>(4) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|--------------------|-------------------|--------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                    |                   |                                      |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                 | 90                |                                      |  |
| <b>TEXAS</b>              |                               |                            |                            |                            |                            |                            |                            |                         |                    |                   |                                      |  |
| FOLLETT                   | 36<br>32<br>28                | APR 09<br>MAR 29<br>MAR 22 | APR 24<br>APR 15<br>APR 05 | MAY 10<br>MAY 01<br>APR 19 | OCT 08<br>OCT 15<br>OCT 25 | OCT 21<br>OCT 29<br>NOV 07 | NOV 03<br>NOV 11<br>NOV 19 | 199<br>220<br>234       | 179<br>196<br>215  | 158<br>172<br>196 | 39<br>32<br>23                       |  |
| FT STOCKTON KFST RADIO    | 36<br>32<br>28                | MAR 27<br>MAR 14<br>FEB 26 | APR 11<br>MAR 30<br>MAR 18 | APR 27<br>APR 15<br>APR 07 | OCT 13<br>OCT 25<br>OCT 31 | OCT 29<br>NOV 10<br>NOV 16 | NOV 14<br>NOV 26<br>DEC 02 | 223<br>247<br>268       | 201<br>225<br>242  | 178<br>203<br>217 | 25<br>18<br>11                       |  |
| FREDERICKSBURG            | 36<br>32<br>28                | MAR 15<br>MAR 07<br>FEB 13 | MAR 30<br>MAR 24<br>MAR 06 | APR 15<br>APR 10<br>MAR 27 | OCT 17<br>OCT 24<br>OCT 30 | NOV 01<br>NOV 11<br>NOV 19 | NOV 15<br>NOV 30<br>DEC 09 | 234<br>256<br>287       | 215<br>232<br>257  | 196<br>208<br>228 | 16<br>11<br>6                        |  |
| GAINESVILLE               | 36<br>32<br>28                | MAR 25<br>MAR 14<br>MAR 02 | APR 05<br>MAR 29<br>MAR 17 | APR 16<br>APR 13<br>APR 02 | OCT 14<br>OCT 26<br>OCT 31 | OCT 26<br>NOV 07<br>NOV 18 | NOV 07<br>NOV 19<br>DEC 06 | 216<br>241<br>267       | 203<br>223<br>245  | 189<br>204<br>223 | 26<br>20<br>13                       |  |
| GALVESTON HSO             | 36<br>32<br>28                | JAN 15<br>-<br>-           | FEB 13<br>JAN 28<br>-      | MAR 15<br>FEB 25<br>FEB 10 | NOV 21<br>DEC 10<br>JAN 02 | DEC 16<br>JAN 09<br>-      | JAN 11<br>-                | 345<br>>365<br>>365     | 304<br>345<br>365  | 267<br>308<br>353 | 2<br>1<br>0                          |  |
| GATESVILLE                | 36<br>32<br>28                | MAR 21<br>MAR 09<br>FEB 18 | APR 03<br>MAR 25<br>MAR 08 | APR 16<br>APR 10<br>MAR 27 | OCT 18<br>OCT 24<br>NOV 02 | NOV 03<br>NOV 10<br>NOV 22 | NOV 19<br>NOV 26<br>DEC 11 | 234<br>250<br>285       | 213<br>229<br>258  | 192<br>207<br>230 | 19<br>13<br>8                        |  |
| GILMER 2 W                | 36<br>32<br>28                | MAR 20<br>MAR 02<br>FEB 18 | APR 04<br>MAR 20<br>MAR 09 | APR 20<br>APR 08<br>MAR 28 | OCT 10<br>OCT 18<br>OCT 30 | OCT 27<br>NOV 07<br>NOV 19 | NOV 13<br>NOV 26<br>DEC 08 | 226<br>260<br>284       | 205<br>231<br>254  | 185<br>201<br>224 | 22<br>15<br>9                        |  |
| GRAHAM                    | 36<br>32<br>28                | MAR 24<br>MAR 17<br>MAR 05 | APR 08<br>MAR 31<br>MAR 21 | APR 23<br>APR 15<br>APR 05 | OCT 14<br>OCT 22<br>OCT 31 | OCT 27<br>NOV 05<br>NOV 16 | NOV 08<br>NOV 20<br>DEC 02 | 223<br>240<br>260       | 201<br>218<br>239  | 180<br>197<br>219 | 26<br>20<br>13                       |  |
| GREENVILLE 7 NW           | 36<br>32<br>28                | MAR 20<br>MAR 09<br>FEB 22 | APR 03<br>MAR 24<br>MAR 12 | APR 17<br>APR 07<br>MAR 30 | OCT 16<br>OCT 26<br>NOV 01 | OCT 28<br>NOV 10<br>NOV 22 | NOV 10<br>NOV 25<br>DEC 13 | 225<br>252<br>284       | 208<br>231<br>254  | 190<br>210<br>224 | 23<br>17<br>10                       |  |
| HALLETTSVILLE             | 36<br>32<br>28                | MAR 01<br>FEB 10<br>JAN 24 | MAR 19<br>MAR 06<br>FEB 18 | APR 07<br>MAR 31<br>MAR 15 | OCT 20<br>OCT 31<br>NOV 16 | NOV 10<br>NOV 22<br>DEC 08 | DEC 01<br>DEC 13<br>DEC 31 | 260<br>290<br>316       | 235<br>259<br>292  | 210<br>229<br>268 | 10<br>6<br>3                         |  |
| HARLINGEN                 | 36<br>32<br>28                | JAN 08<br>-<br>-           | FEB 14<br>JAN 26<br>-      | MAR 22<br>DEC 01<br>DEC 23 | NOV 17<br>JAN 03<br>-      | DEC 09<br>JAN 02<br>-      | JAN 02<br>-                | 341<br>>365<br>>365     | 296<br>342<br>>365 | 260<br>303<br>357 | 3<br>1<br>0                          |  |
| HASKELL                   | 36<br>32<br>28                | MAR 23<br>MAR 15<br>FEB 28 | APR 05<br>MAR 28<br>MAR 16 | APR 19<br>APR 11<br>APR 02 | OCT 18<br>OCT 29<br>NOV 01 | NOV 02<br>NOV 11<br>NOV 20 | NOV 18<br>NOV 24<br>DEC 09 | 231<br>246<br>273       | 210<br>227<br>248  | 189<br>208<br>223 | 26<br>19<br>12                       |  |
| HENDERSON                 | 36<br>32<br>28                | MAR 21<br>MAR 02<br>FEB 07 | APR 01<br>MAR 17<br>MAR 01 | APR 13<br>APR 02<br>MAR 23 | OCT 20<br>OCT 29<br>NOV 07 | NOV 01<br>NOV 12<br>NOV 28 | NOV 14<br>NOV 25<br>DEC 19 | 232<br>259<br>302       | 213<br>239<br>272  | 195<br>218<br>241 | 18<br>11<br>7                        |  |
| HENRIETTA                 | 36<br>32<br>28                | MAR 24<br>MAR 12<br>FEB 26 | APR 07<br>MAR 28<br>MAR 16 | APR 21<br>APR 13<br>APR 03 | OCT 12<br>OCT 24<br>NOV 02 | OCT 28<br>NOV 07<br>NOV 18 | NOV 13<br>NOV 21<br>DEC 05 | 226<br>245<br>272       | 203<br>224<br>247  | 180<br>202<br>222 | 27<br>20<br>13                       |  |
| HEREFORD                  | 36<br>32<br>28                | APR 22<br>APR 04<br>MAR 24 | MAY 04<br>MAY 09<br>APR 08 | MAY 15<br>MAY 09<br>APR 22 | SEP 30<br>OCT 09<br>OCT 16 | OCT 13<br>OCT 24<br>NOV 02 | OCT 26<br>NOV 09<br>NOV 19 | 182<br>211<br>232       | 162<br>185<br>207  | 142<br>159<br>183 | 42<br>35<br>27                       |  |
| HICO                      | 36<br>32<br>28                | MAR 21<br>MAR 12<br>FEB 19 | APR 05<br>MAR 27<br>MAR 12 | APR 19<br>APR 11<br>APR 01 | OCT 16<br>OCT 24<br>OCT 30 | OCT 30<br>NOV 07<br>NOV 19 | NOV 12<br>NOV 22<br>DEC 09 | 225<br>245<br>278       | 207<br>225<br>252  | 189<br>205<br>226 | 20<br>14<br>8                        |  |
| HILLSBORO                 | 36<br>32<br>28                | MAR 13<br>FEB 27<br>FEB 12 | MAR 30<br>MAR 18<br>MAR 03 | APR 16<br>APR 06<br>MAR 23 | OCT 19<br>OCT 28<br>NOV 05 | NOV 03<br>NOV 13<br>NOV 29 | NOV 19<br>NOV 29<br>DEC 24 | 243<br>265<br>297       | 218<br>239<br>270  | 193<br>214<br>244 | 19<br>13<br>7                        |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                    |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|--------------------|-------------------|-----------------------------------|--|
|                           |                               | * PROBABILITY LEVEL (1)    |                            |                            | * PROBABILITY LEVEL (2)    |                            |                            | * PROBABILITY LEVEL (3) |                    |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                 | 90                |                                   |  |
| TEXAS                     |                               |                            |                            |                            |                            |                            |                            |                         |                    |                   |                                   |  |
| HUNTSVILLE                | 36<br>32<br>28                | MAR 03<br>FEB 15<br>JAN 19 | MAR 19<br>MAR 05<br>FEB 14 | APR 04<br>MAR 23<br>MAR 12 | OCT 27<br>NOV 03<br>NOV 15 | NOV 12<br>NOV 27<br>DEC 10 | NOV 28<br>DEC 20<br>JAN 03 | 258<br>296<br>333       | 237<br>266<br>298  | 216<br>236<br>263 | 12<br>7<br>4                      |  |
| JACKSBORO                 | 36<br>32<br>28                | MAR 21<br>MAR 08<br>FEB 22 | APR 04<br>MAR 24<br>MAR 11 | APR 18<br>APR 10<br>MAR 28 | OCT 20<br>OCT 29<br>NOV 05 | NOV 03<br>NOV 12<br>NOV 26 | NOV 18<br>NOV 27<br>DEC 18 | 232<br>252<br>289       | 212<br>232<br>260  | 193<br>212<br>231 | 20<br>14<br>8                     |  |
| JUNCTION                  | 36<br>32<br>28                | MAR 23<br>MAR 13<br>FEB 23 | APR 12<br>APR 01<br>MAR 17 | MAY 03<br>APR 20<br>APR 08 | OCT 10<br>OCT 13<br>OCT 25 | OCT 23<br>OCT 28<br>NOV 10 | NOV 06<br>NOV 12<br>NOV 25 | 218<br>233<br>262       | 193<br>210<br>237  | 168<br>186<br>212 | 23<br>17<br>11                    |  |
| KAUFMAN 3 SE              | 36<br>32<br>28                | MAR 17<br>MAR 05<br>FEB 13 | APR 01<br>MAR 22<br>MAR 04 | APR 17<br>APR 08<br>MAR 23 | OCT 21<br>OCT 22<br>NOV 05 | NOV 06<br>NOV 14<br>NOV 29 | NOV 21<br>DEC 06<br>DEC 22 | 240<br>266<br>300       | 218<br>236<br>269  | 196<br>205<br>238 | 21<br>14<br>8                     |  |
| KINGSVILLE                | 36<br>32<br>28                | FEB 05<br>JAN 19<br>-      | MAR 05<br>FEB 16<br>JAN 29 | APR 02<br>MAR 13<br>MAR 02 | NOV 04<br>NOV 12<br>DEC 01 | NOV 22<br>DEC 09<br>JAN 04 | DEC 11<br>JAN 07<br>-      | 292<br>340<br>>365      | 261<br>297<br>338  | 231<br>263<br>297 | 5<br>3<br>1                       |  |
| LA TUNA 1 S               | 36<br>32<br>28                | MAR 23<br>MAR 11<br>FEB 20 | APR 10<br>MAR 28<br>MAR 11 | APR 28<br>APR 14<br>MAR 31 | OCT 21<br>OCT 28<br>NOV 04 | NOV 02<br>NOV 09<br>NOV 17 | NOV 14<br>NOV 22<br>DEC 01 | 227<br>249<br>276       | 205<br>226<br>251  | 183<br>202<br>226 | 29<br>21<br>13                    |  |
| LAMESA 1 SSE              | 36<br>32<br>28                | MAR 31<br>MAR 25<br>MAR 12 | APR 14<br>APR 05<br>APR 26 | APR 28<br>APR 16<br>APR 09 | OCT 08<br>OCT 20<br>OCT 31 | OCT 26<br>NOV 05<br>NOV 14 | NOV 12<br>NOV 21<br>NOV 29 | 219<br>233<br>254       | 194<br>214<br>232  | 169<br>194<br>211 | 33<br>26<br>17                    |  |
| LAMPASAS                  | 36<br>32<br>28                | MAR 24<br>MAR 14<br>MAR 01 | APR 06<br>APR 13<br>APR 03 | APR 18<br>APR 13<br>NOV 02 | OCT 12<br>OCT 23<br>OCT 28 | OCT 27<br>NOV 06<br>NOV 17 | NOV 10<br>NOV 19<br>DEC 08 | 221<br>240<br>272       | 203<br>221<br>245  | 185<br>202<br>217 | 24<br>18<br>11                    |  |
| LAREDO NO 2               | 36<br>32<br>28                | JAN 20<br>JAN 11<br>-      | FEB 20<br>FEB 07<br>JAN 15 | MAR 22<br>MAR 05<br>FEB 17 | NOV 09<br>NOV 16<br>DEC 02 | NOV 28<br>DEC 16<br>JAN 13 | DEC 16<br>JAN 15<br>-      | 318<br>350<br>>365      | 280<br>308<br>>365 | 242<br>275<br>302 | 5<br>2<br>1                       |  |
| LEVELLAND                 | 36<br>32<br>28                | APR 05<br>MAR 29<br>MAR 15 | APR 23<br>APR 12<br>APR 13 | MAY 10<br>APR 25<br>APR 13 | OCT 06<br>OCT 13<br>OCT 20 | OCT 16<br>OCT 28<br>NOV 06 | OCT 27<br>NOV 11<br>NOV 23 | 196<br>221<br>246       | 176<br>198<br>221  | 157<br>175<br>197 | 37<br>29<br>21                    |  |
| LIBERTY                   | 36<br>32<br>28                | FEB 28<br>FEB 08<br>JAN 14 | MAR 18<br>MAR 03<br>FEB 12 | APR 05<br>MAR 25<br>MAR 13 | OCT 22<br>NOV 02<br>NOV 11 | NOV 06<br>NOV 17<br>DEC 06 | NOV 21<br>DEC 02<br>JAN 02 | 255<br>285<br>332       | 232<br>259<br>297  | 210<br>232<br>266 | 12<br>7<br>3                      |  |
| LIVINGSTON 2 NNE          | 36<br>32<br>28                | MAR 13<br>FEB 28<br>FEB 08 | MAR 29<br>MAR 18<br>MAR 02 | APR 13<br>APR 06<br>MAR 23 | OCT 12<br>OCT 24<br>OCT 31 | OCT 30<br>NOV 10<br>NOV 26 | NOV 17<br>NOV 28<br>DEC 21 | 239<br>263<br>306       | 215<br>237<br>268  | 191<br>210<br>230 | 16<br>11<br>7                     |  |
| LLANO                     | 36<br>32<br>28                | MAR 18<br>MAR 07<br>FEB 10 | APR 01<br>APR 23<br>MAR 05 | APR 16<br>APR 08<br>MAR 28 | OCT 16<br>OCT 24<br>NOV 03 | OCT 31<br>NOV 08<br>NOV 21 | NOV 15<br>NOV 24<br>DEC 08 | 231<br>249<br>289       | 212<br>230<br>260  | 193<br>211<br>230 | 22<br>15<br>9                     |  |
| LUBBOCK WSO               | 36<br>32<br>28                | MAR 31<br>MAR 25<br>MAR 13 | APR 17<br>APR 08<br>MAR 27 | MAY 05<br>APR 22<br>APR 11 | OCT 08<br>OCT 15<br>OCT 29 | OCT 22<br>NOV 01<br>NOV 11 | NOV 05<br>NOV 17<br>NOV 25 | 209<br>230<br>248       | 187<br>206<br>228  | 165<br>182<br>208 | 33<br>26<br>18                    |  |
| LULING                    | 36<br>32<br>28                | MAR 08<br>FEB 17<br>JAN 25 | MAR 25<br>MAR 12<br>FEB 21 | APR 10<br>APR 04<br>MAR 20 | OCT 18<br>OCT 30<br>NOV 11 | NOV 05<br>NOV 18<br>DEC 03 | NOV 23<br>DEC 08<br>DEC 26 | 245<br>276<br>311       | 225<br>251<br>284  | 205<br>226<br>257 | 14<br>8<br>4                      |  |
| MADISONVILLE              | 36<br>32<br>28                | MAR 12<br>FEB 19<br>JAN 26 | MAR 26<br>MAR 10<br>FEB 22 | APR 09<br>MAR 30<br>MAR 20 | OCT 23<br>OCT 29<br>NOV 11 | NOV 06<br>NOV 18<br>DEC 03 | NOV 21<br>DEC 08<br>DEC 25 | 244<br>278<br>318       | 225<br>252<br>283  | 206<br>225<br>249 | 13<br>8<br>4                      |  |
| MARLIN 3 NE               | 36<br>32<br>28                | MAR 14<br>MAR 03<br>FEB 09 | MAR 30<br>MAR 19<br>FEB 27 | APR 14<br>APR 04<br>MAR 17 | OCT 21<br>OCT 26<br>NOV 06 | NOV 05<br>NOV 15<br>NOV 30 | NOV 19<br>DEC 05<br>DEC 24 | 242<br>262<br>301       | 219<br>240<br>275  | 197<br>219<br>250 | 16<br>10<br>5                     |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                    |                   | FREEZE / FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|--------------------|-------------------|-------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                    |                   |                                     |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                 | 90                |                                     |  |
| TEXAS                     |                               |                            |                            |                            |                            |                            |                            |                         |                    |                   |                                     |  |
| MARSHALL                  | 36<br>32<br>28                | MAR 17<br>MAR 02<br>FEB 14 | MAR 31<br>MAR 21<br>MAR 04 | APR 14<br>APR 09<br>MAR 21 | OCT 19<br>OCT 24<br>NOV 06 | NOV 02<br>NOV 11<br>NOV 27 | NOV 15<br>NOV 29<br>DEC 18 | 234<br>264<br>294       | 215<br>234<br>267  | 196<br>205<br>241 | 20<br>13<br>8                       |  |
| MATADOR                   | 36<br>32<br>28                | MAR 31<br>MAR 20<br>MAR 09 | APR 15<br>APR 03<br>MAR 24 | MAY 01<br>APR 17<br>APR 07 | OCT 12<br>OCT 21<br>OCT 29 | OCT 27<br>NOV 05<br>NOV 15 | NOV 11<br>NOV 21<br>DEC 02 | 219<br>236<br>257       | 194<br>216<br>235  | 170<br>196<br>214 | 29<br>22<br>15                      |  |
| MATAGORDA NO 2            | 36<br>32<br>28                | FEB 10<br>JAN 17<br>DEC 29 | MAR 04<br>FEB 16<br>JAN 27 | MAR 27<br>MAR 17<br>FEB 25 | NOV 03<br>NOV 14<br>NOV 30 | NOV 27<br>DEC 09<br>DEC 27 | DEC 20<br>JAN 04<br>JAN 25 | 297<br>335<br>>365      | 266<br>294<br>328  | 235<br>258<br>301 | 5<br>2<br>1                         |  |
| MC ALLEN                  | 36<br>32<br>28                | JAN 21<br>DEC 06<br>-      | FEB 16<br>JAN 21<br>-      | MAR 14<br>FEB 25<br>FEB 01 | NOV 16<br>NOV 22<br>DEC 17 | DEC 08<br>DEC 29<br>-      | DEC 31<br>-                | 322<br>>365<br>>365     | 295<br>341<br>>365 | 267<br>292<br>331 | 3<br>1<br>0                         |  |
| MC CAMEY                  | 36<br>32<br>28                | MAR 15<br>MAR 07<br>FEB 20 | APR 01<br>MAR 24<br>MAR 10 | APR 18<br>APR 10<br>MAR 29 | OCT 23<br>OCT 28<br>NOV 09 | NOV 05<br>NOV 12<br>NOV 24 | NOV 19<br>NOV 27<br>DEC 09 | 241<br>257<br>281       | 218<br>233<br>258  | 195<br>208<br>235 | 22<br>15<br>9                       |  |
| MC COOK                   | 36<br>32<br>28                | FEB 03<br>JAN 07<br>-      | FEB 25<br>FEB 09<br>JAN 15 | MAR 20<br>MAR 11<br>FEB 17 | NOV 10<br>NOV 18<br>DEC 13 | DEC 01<br>DEC 17<br>JAN 12 | DEC 22<br>JAN 23<br>-      | 307<br>>365<br>>365     | 278<br>310<br>>365 | 248<br>277<br>314 | 5<br>2<br>1                         |  |
| MCKINNEY 3 S              | 36<br>32<br>28                | MAR 20<br>MAR 07<br>FEB 19 | APR 03<br>MAR 24<br>MAR 11 | APR 18<br>APR 10<br>APR 01 | OCT 15<br>OCT 26<br>OCT 31 | OCT 31<br>NOV 10<br>NOV 23 | NOV 16<br>NOV 24<br>DEC 15 | 231<br>251<br>286       | 210<br>230<br>256  | 188<br>208<br>225 | 19<br>14<br>8                       |  |
| MEMPHIS                   | 36<br>32<br>28                | MAR 26<br>MAR 19<br>MAR 08 | APR 10<br>APR 02<br>MAR 24 | APR 26<br>APR 16<br>APR 08 | OCT 14<br>OCT 23<br>OCT 30 | OCT 28<br>NOV 05<br>NOV 13 | NOV 10<br>NOV 17<br>NOV 27 | 221<br>235<br>255       | 200<br>216<br>233  | 178<br>197<br>212 | 32<br>25<br>18                      |  |
| MEXIA                     | 36<br>32<br>28                | MAR 09<br>FEB 21<br>JAN 29 | MAR 26<br>MAR 10<br>FEB 22 | APR 12<br>MAR 27<br>MAR 18 | OCT 28<br>NOV 01<br>NOV 11 | NOV 09<br>NOV 23<br>DEC 07 | NOV 21<br>DEC 15<br>JAN 02 | 249<br>287<br>318       | 228<br>257<br>287  | 206<br>228<br>256 | 16<br>10<br>5                       |  |
| MIAMI                     | 36<br>32<br>28                | APR 15<br>APR 02<br>MAR 23 | APR 30<br>APR 18<br>APR 07 | MAY 15<br>MAY 05<br>APR 23 | SEP 29<br>OCT 08<br>OCT 18 | OCT 12<br>OCT 24<br>NOV 02 | OCT 25<br>NOV 08<br>NOV 17 | 188<br>210<br>230       | 165<br>188<br>208  | 142<br>165<br>187 | 40<br>34<br>26                      |  |
| MIDLAND 4 ENE             | 36<br>32<br>28                | MAR 25<br>MAR 15<br>MAR 05 | APR 09<br>MAR 28<br>MAR 20 | APR 24<br>APR 11<br>APR 04 | OCT 15<br>OCT 21<br>NOV 04 | OCT 30<br>NOV 06<br>NOV 19 | NOV 13<br>NOV 23<br>DEC 04 | 224<br>245<br>264       | 203<br>222<br>243  | 183<br>199<br>222 | 26<br>19<br>12                      |  |
| MINERAL WELLS FAA AP      | 36<br>32<br>28                | MAR 17<br>MAR 03<br>FEB 14 | APR 01<br>MAR 20<br>MAR 06 | APR 16<br>APR 06<br>MAR 26 | OCT 23<br>OCT 28<br>NOV 05 | NOV 05<br>NOV 13<br>NOV 26 | NOV 19<br>NOV 30<br>DEC 16 | 238<br>261<br>293       | 218<br>238<br>264  | 197<br>214<br>234 | 20<br>14<br>8                       |  |
| MISSION 4 W               | 36<br>32<br>28                | JAN 28<br>DEC 25<br>-      | FEB 21<br>JAN 31<br>DEC 25 | MAR 17<br>MAR 06<br>FEB 04 | NOV 08<br>NOV 20<br>DEC 17 | DEC 04<br>DEC 26<br>-      | DEC 29<br>FEB 10<br>-      | 318<br>>365<br>>365     | 285<br>324<br>>365 | 252<br>277<br>325 | 4<br>2<br>1                         |  |
| MOUNT LOCKE               | 36<br>32<br>28                | APR 10<br>MAR 30<br>MAR 15 | APR 29<br>APR 17<br>APR 01 | MAY 19<br>MAY 05<br>APR 18 | OCT 04<br>OCT 12<br>OCT 20 | OCT 21<br>OCT 28<br>NOV 06 | NOV 07<br>NOV 13<br>NOV 22 | 201<br>218<br>242       | 174<br>193<br>218  | 146<br>168<br>194 | 24<br>18<br>11                      |  |
| MOUNT PLEASANT            | 36<br>32<br>28                | MAR 26<br>MAR 15<br>FEB 28 | APR 08<br>MAR 28<br>MAR 14 | APR 21<br>APR 11<br>MAR 29 | OCT 10<br>OCT 17<br>OCT 27 | OCT 23<br>NOV 02<br>NOV 16 | NOV 04<br>NOV 17<br>DEC 06 | 216<br>237<br>270       | 197<br>218<br>246  | 179<br>198<br>222 | 26<br>19<br>12                      |  |
| MULESHOE 1                | 36<br>32<br>28                | APR 19<br>APR 01<br>MAR 25 | MAY 01<br>APR 18<br>APR 07 | MAY 14<br>MAY 04<br>APR 20 | SEP 27<br>OCT 09<br>OCT 17 | OCT 11<br>OCT 23<br>NOV 01 | OCT 26<br>NOV 06<br>NOV 17 | 184<br>212<br>229       | 162<br>188<br>208  | 140<br>164<br>186 | 42<br>36<br>28                      |  |
| MUNDAY                    | 36<br>32<br>28                | MAR 25<br>MAR 18<br>MAR 05 | APR 06<br>MAR 31<br>MAR 22 | APR 18<br>APR 13<br>APR 07 | OCT 14<br>OCT 28<br>NOV 03 | OCT 30<br>NOV 11<br>NOV 19 | NOV 15<br>NOV 24<br>DEC 05 | 227<br>244<br>268       | 206<br>224<br>241  | 186<br>204<br>215 | 25<br>18<br>11                      |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |        |        | FALL (DATE)                |        |        | FREEZE FREE PERIOD         |      |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|------|-----|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |        |        | *<br>PROBABILITY LEVEL (2) |        |        | *<br>PROBABILITY LEVEL (3) |      |     |                                   |  |
|                           |                               | 90                         | 50     | 10     | 10                         | 50     | 90     | 10                         | 50   | 90  |                                   |  |
| TEXAS                     |                               |                            |        |        |                            |        |        |                            |      |     |                                   |  |
| NEW BRAUNFELS             | 36                            | MAR 04                     | MAR 23 | APR 11 | OCT 30                     | NOV 13 | NOV 28 | 258                        | 235  | 211 | 13                                |  |
|                           | 32                            | FEB 17                     | MAR 09 | MAR 29 | NOV 06                     | NOV 26 | DEC 15 | 291                        | 261  | 232 | 7                                 |  |
|                           | 28                            | JAN 26                     | FEB 19 | MAR 16 | NOV 16                     | DEC 11 | JAN 08 | 329                        | 294  | 263 | 4                                 |  |
| NEW GULF                  | 36                            | FEB 22                     | MAR 12 | MAR 30 | NOV 01                     | NOV 16 | DEC 01 | 271                        | 248  | 226 | 9                                 |  |
|                           | 32                            | FEB 01                     | FEB 25 | MAR 22 | NOV 10                     | DEC 01 | DEC 21 | 309                        | 277  | 246 | 5                                 |  |
|                           | 28                            | JAN 13                     | FEB 06 | MAR 02 | NOV 18                     | DEC 13 | JAN 06 | 335                        | 309  | 283 | 2                                 |  |
| NIXON                     | 36                            | MAR 02                     | MAR 16 | MAR 30 | OCT 23                     | NOV 14 | DEC 06 | 266                        | 242  | 218 | 10                                |  |
|                           | 32                            | FEB 10                     | MAR 03 | MAR 23 | NOV 01                     | NOV 27 | DEC 22 | 301                        | 269  | 237 | 5                                 |  |
|                           | 28                            | JAN 23                     | FEB 15 | MAR 10 | NOV 14                     | DEC 11 | JAN 07 | 329                        | 297  | 268 | 2                                 |  |
| PALACIOS FAA AIRPORT      | 36                            | FEB 11                     | MAR 05 | MAR 27 | NOV 02                     | NOV 25 | DEC 19 | 295                        | 264  | 234 | 6                                 |  |
|                           | 32                            | JAN 19                     | FEB 16 | MAR 16 | NOV 15                     | DEC 07 | DEC 30 | 327                        | 294  | 260 | 3                                 |  |
|                           | 28                            | JAN 01                     | JAN 29 | FEB 26 | DEC 01                     | DEC 29 | JAN 28 | >365                       | 328  | 303 | 1                                 |  |
| PECOS                     | 36                            | MAR 28                     | APR 11 | APR 25 | OCT 11                     | OCT 28 | NOV 13 | 224                        | 199  | 173 | 30                                |  |
|                           | 32                            | MAR 17                     | APR 01 | APR 15 | OCT 20                     | NOV 04 | NOV 19 | 238                        | 217  | 196 | 22                                |  |
|                           | 28                            | MAR 01                     | MAR 17 | APR 02 | NOV 02                     | NOV 14 | NOV 25 | 261                        | 241  | 221 | 14                                |  |
| PIERCE 1 E                | 36                            | MAR 07                     | MAR 23 | APR 09 | OCT 26                     | NOV 12 | NOV 29 | 257                        | 233  | 210 | 11                                |  |
|                           | 32                            | FEB 08                     | MAR 03 | MAR 25 | NOV 04                     | NOV 27 | DEC 20 | 298                        | 268  | 239 | 6                                 |  |
|                           | 28                            | JAN 21                     | FEB 15 | MAR 12 | NOV 14                     | DEC 10 | JAN 04 | 326                        | 297  | 267 | 3                                 |  |
| PLAINS                    | 36                            | APR 10                     | APR 26 | MAY 11 | OCT 04                     | OCT 16 | OCT 28 | 194                        | 173  | 151 | 38                                |  |
|                           | 32                            | MAR 29                     | APR 14 | APR 29 | OCT 09                     | OCT 26 | NOV 11 | 220                        | 194  | 169 | 31                                |  |
|                           | 28                            | MAR 22                     | APR 05 | APR 19 | OCT 19                     | NOV 04 | NOV 21 | 236                        | 213  | 189 | 23                                |  |
| PLAINVIEW                 | 36                            | APR 06                     | APR 22 | MAY 07 | OCT 07                     | OCT 21 | NOV 03 | 199                        | 181  | 163 | 37                                |  |
|                           | 32                            | MAR 27                     | APR 09 | APR 22 | OCT 13                     | OCT 29 | NOV 14 | 225                        | 202  | 180 | 29                                |  |
|                           | 28                            | MAR 17                     | MAR 31 | APR 14 | OCT 25                     | NOV 07 | NOV 20 | 238                        | 220  | 202 | 21                                |  |
| PORT LAVACA NO 2          | 36                            | FEB 06                     | FEB 27 | MAR 21 | NOV 07                     | NOV 28 | DEC 19 | 301                        | 273  | 245 | 5                                 |  |
|                           | 32                            | JAN 23                     | FEB 17 | MAR 15 | NOV 17                     | DEC 12 | JAN 05 | 333                        | 296  | 260 | 3                                 |  |
|                           | 28                            | DEC 21                     | JAN 25 | FEB 22 | DEC 04                     | JAN 05 | -      | >365                       | 338  | 309 | 1                                 |  |
| PORT O CONNOR             | 36                            | JAN 31                     | FEB 24 | MAR 21 | NOV 12                     | DEC 02 | DEC 21 | 315                        | 280  | 245 | 4                                 |  |
|                           | 32                            | JAN 16                     | FEB 11 | MAR 09 | NOV 28                     | DEC 25 | JAN 21 | 340                        | 313  | 291 | 2                                 |  |
|                           | 28                            | -                          | JAN 14 | FEB 13 | DEC 23                     | JAN 22 | -      | >365                       | 335  | 333 | 1                                 |  |
| POTEET                    | 36                            | MAR 01                     | MAR 19 | APR 05 | OCT 25                     | NOV 13 | DEC 01 | 262                        | 238  | 215 | 11                                |  |
|                           | 32                            | FEB 11                     | MAR 06 | MAR 29 | NOV 03                     | NOV 23 | DEC 12 | 286                        | 261  | 236 | 6                                 |  |
|                           | 28                            | JAN 18                     | FEB 16 | MAR 17 | NOV 17                     | DEC 10 | JAN 01 | 329                        | 296  | 263 | 3                                 |  |
| PRESIDIO                  | 36                            | MAR 08                     | MAR 25 | APR 11 | OCT 24                     | NOV 08 | NOV 24 | 252                        | 228  | 204 | 20                                |  |
|                           | 32                            | FEB 19                     | MAR 11 | APR 01 | OCT 29                     | NOV 15 | DEC 01 | 272                        | 248  | 223 | 12                                |  |
|                           | 28                            | FEB 07                     | FEB 28 | MAR 21 | NOV 09                     | NOV 28 | DEC 17 | 296                        | 273  | 250 | 6                                 |  |
| QUANAH 5 SE               | 36                            | APR 01                     | APR 16 | MAY 02 | OCT 02                     | OCT 19 | NOV 05 | 211                        | 185  | 158 | 32                                |  |
|                           | 32                            | MAR 22                     | APR 06 | APR 20 | OCT 17                     | NOV 01 | NOV 17 | 232                        | 209  | 186 | 26                                |  |
|                           | 28                            | MAR 12                     | MAR 27 | APR 11 | OCT 28                     | NOV 10 | NOV 23 | 247                        | 227  | 208 | 18                                |  |
| RAYMONDVILLE              | 36                            | JAN 30                     | FEB 22 | MAR 17 | NOV 10                     | DEC 02 | DEC 25 | 311                        | 283  | 254 | 4                                 |  |
|                           | 32                            | -                          | FEB 04 | MAR 03 | NOV 20                     | DEC 26 | -      | >365                       | 325  | 283 | 2                                 |  |
|                           | 28                            | -                          | JAN 04 | FEB 12 | DEC 10                     | JAN 21 | -      | >365                       | >365 | 333 | 1                                 |  |
| RIO GRANDE CITY 3 W       | 36                            | FEB 10                     | MAR 07 | APR 01 | NOV 03                     | NOV 26 | DEC 18 | 299                        | 263  | 227 | 7                                 |  |
|                           | 32                            | JAN 15                     | FEB 18 | MAR 23 | NOV 08                     | DEC 04 | DEC 31 | 330                        | 289  | 248 | 4                                 |  |
|                           | 28                            | DEC 14                     | JAN 30 | MAR 08 | NOV 22                     | DEC 23 | -      | >365                       | 322  | 285 | 2                                 |  |
| RISING STAR               | 36                            | MAR 24                     | APR 06 | APR 20 | OCT 16                     | NOV 01 | NOV 17 | 230                        | 208  | 186 | 24                                |  |
|                           | 32                            | MAR 10                     | MAR 27 | APR 12 | OCT 25                     | NOV 09 | NOV 23 | 248                        | 226  | 204 | 17                                |  |
|                           | 28                            | MAR 02                     | MAR 17 | APR 02 | OCT 31                     | NOV 19 | DEC 07 | 268                        | 246  | 224 | 10                                |  |
| ROSCOE                    | 36                            | MAR 26                     | APR 12 | APR 29 | OCT 13                     | OCT 30 | NOV 16 | 226                        | 201  | 176 | 24                                |  |
|                           | 32                            | MAR 19                     | APR 02 | APR 15 | OCT 25                     | NOV 08 | NOV 22 | 238                        | 220  | 201 | 17                                |  |
|                           | 28                            | MAR 09                     | MAR 23 | APR 06 | NOV 01                     | NOV 17 | DEC 04 | 265                        | 239  | 213 | 11                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| TEXAS                     |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| RUSK                      | 36                            | MAR 13                  | MAR 30 | APR 15 | OCT 23                  | NOV 09 | NOV 27 | 251                     | 224 | 197 | 16                                |  |
|                           | 32                            | FEB 25                  | MAR 15 | APR 02 | OCT 29                  | NOV 17 | DEC 05 | 271                     | 246 | 221 | 10                                |  |
|                           | 28                            | FEB 08                  | FEB 27 | MAR 18 | NOV 06                  | NOV 30 | DEC 25 | 307                     | 276 | 245 | 5                                 |  |
| SAN ANTONIO WSO           | 36                            | MAR 05                  | MAR 23 | APR 10 | OCT 27                  | NOV 14 | DEC 02 | 260                     | 235 | 210 | 11                                |  |
|                           | 32                            | FEB 11                  | MAR 03 | MAR 23 | NOV 06                  | NOV 24 | DEC 11 | 295                     | 265 | 235 | 6                                 |  |
|                           | 28                            | JAN 22                  | FEB 16 | MAR 13 | NOV 12                  | DEC 08 | JAN 02 | 325                     | 294 | 262 | 3                                 |  |
| SAN MARCOS                | 36                            | MAR 09                  | MAR 26 | APR 12 | OCT 22                  | NOV 06 | NOV 21 | 249                     | 224 | 199 | 16                                |  |
|                           | 32                            | MAR 02                  | MAR 17 | APR 02 | OCT 31                  | NOV 17 | DEC 03 | 263                     | 244 | 224 | 10                                |  |
|                           | 28                            | JAN 28                  | FEB 22 | MAR 20 | NOV 09                  | NOV 30 | DEC 21 | 311                     | 280 | 248 | 5                                 |  |
| SEMINOLE                  | 36                            | APR 01                  | APR 17 | MAY 03 | OCT 10                  | OCT 22 | NOV 02 | 208                     | 187 | 167 | 34                                |  |
|                           | 32                            | MAR 24                  | APR 07 | APR 21 | OCT 13                  | OCT 30 | NOV 16 | 228                     | 205 | 182 | 26                                |  |
|                           | 28                            | MAR 11                  | MAR 27 | APR 12 | OCT 28                  | NOV 12 | NOV 27 | 254                     | 229 | 204 | 18                                |  |
| SEYMOUR                   | 36                            | MAR 27                  | APR 11 | APR 27 | OCT 11                  | OCT 24 | NOV 06 | 214                     | 195 | 175 | 30                                |  |
|                           | 32                            | MAR 17                  | APR 02 | APR 17 | OCT 19                  | NOV 03 | NOV 18 | 237                     | 215 | 193 | 23                                |  |
|                           | 28                            | MAR 07                  | MAR 23 | APR 08 | OCT 29                  | NOV 14 | DEC 01 | 261                     | 236 | 210 | 16                                |  |
| SHERMAN PUMP STATION      | 36                            | MAR 22                  | APR 03 | APR 15 | OCT 16                  | OCT 29 | NOV 11 | 227                     | 209 | 191 | 23                                |  |
|                           | 32                            | MAR 07                  | MAR 22 | APR 06 | OCT 23                  | NOV 10 | NOV 27 | 255                     | 232 | 209 | 16                                |  |
|                           | 28                            | FEB 18                  | MAR 09 | MAR 29 | NOV 01                  | NOV 24 | DEC 17 | 290                     | 259 | 228 | 10                                |  |
| SNYDER                    | 36                            | MAR 29                  | APR 11 | APR 25 | OCT 12                  | OCT 28 | NOV 12 | 218                     | 199 | 179 | 31                                |  |
|                           | 32                            | MAR 21                  | APR 01 | APR 13 | OCT 25                  | NOV 06 | NOV 19 | 237                     | 218 | 200 | 23                                |  |
|                           | 28                            | MAR 09                  | MAR 24 | APR 07 | OCT 31                  | NOV 15 | DEC 01 | 260                     | 236 | 212 | 16                                |  |
| SONORA                    | 36                            | MAR 17                  | APR 04 | APR 21 | OCT 13                  | OCT 28 | NOV 11 | 229                     | 206 | 183 | 21                                |  |
|                           | 32                            | MAR 13                  | MAR 28 | APR 12 | OCT 23                  | NOV 08 | NOV 24 | 248                     | 224 | 199 | 15                                |  |
|                           | 28                            | FEB 24                  | MAR 16 | APR 06 | OCT 27                  | NOV 16 | DEC 05 | 274                     | 244 | 213 | 10                                |  |
| SPEARMAN                  | 36                            | APR 17                  | APR 30 | MAY 13 | SEP 27                  | OCT 11 | OCT 25 | 185                     | 163 | 142 | 40                                |  |
|                           | 32                            | APR 04                  | APR 20 | MAY 06 | OCT 11                  | OCT 22 | NOV 02 | 205                     | 185 | 164 | 34                                |  |
|                           | 28                            | MAR 23                  | APR 08 | APR 25 | OCT 16                  | OCT 30 | NOV 12 | 225                     | 204 | 182 | 26                                |  |
| STRATFORD                 | 36                            | APR 19                  | MAY 02 | MAY 15 | SEP 28                  | OCT 11 | OCT 24 | 181                     | 161 | 142 | 45                                |  |
|                           | 32                            | APR 11                  | APR 25 | MAY 10 | OCT 08                  | OCT 20 | NOV 01 | 191                     | 177 | 162 | 38                                |  |
|                           | 28                            | MAR 29                  | APR 14 | APR 30 | OCT 14                  | OCT 30 | NOV 14 | 218                     | 198 | 178 | 31                                |  |
| SUGAR LAND                | 36                            | FEB 21                  | MAR 10 | MAR 28 | OCT 27                  | NOV 21 | DEC 16 | 286                     | 255 | 224 | 8                                 |  |
|                           | 32                            | JAN 18                  | FEB 16 | MAR 17 | NOV 14                  | DEC 06 | DEC 28 | 324                     | 292 | 260 | 4                                 |  |
|                           | 28                            | JAN 08                  | FEB 04 | MAR 04 | NOV 24                  | DEC 22 | JAN 19 | >365                    | 316 | 285 | 2                                 |  |
| SULPHUR SPRINGS           | 36                            | MAR 22                  | APR 06 | APR 21 | OCT 13                  | OCT 28 | NOV 11 | 224                     | 204 | 184 | 23                                |  |
|                           | 32                            | MAR 08                  | MAR 25 | APR 11 | OCT 23                  | NOV 08 | NOV 24 | 250                     | 228 | 205 | 17                                |  |
|                           | 28                            | FEB 18                  | MAR 08 | MAR 27 | OCT 27                  | NOV 21 | DEC 15 | 288                     | 257 | 226 | 10                                |  |
| TAYLOR                    | 36                            | MAR 08                  | MAR 26 | APR 12 | OCT 25                  | NOV 08 | NOV 22 | 249                     | 227 | 205 | 16                                |  |
|                           | 32                            | FEB 24                  | MAR 13 | MAR 29 | OCT 29                  | NOV 19 | DEC 11 | 279                     | 251 | 222 | 10                                |  |
|                           | 28                            | JAN 31                  | FEB 25 | MAR 22 | NOV 10                  | DEC 04 | DEC 28 | 316                     | 281 | 247 | 5                                 |  |
| TEMPLE                    | 36                            | MAR 05                  | MAR 23 | APR 10 | OCT 28                  | NOV 14 | NOV 30 | 263                     | 235 | 208 | 15                                |  |
|                           | 32                            | FEB 17                  | MAR 07 | MAR 25 | NOV 07                  | NOV 25 | DEC 12 | 288                     | 262 | 236 | 9                                 |  |
|                           | 28                            | JAN 26                  | FEB 20 | MAR 17 | NOV 17                  | DEC 12 | JAN 06 | 325                     | 295 | 265 | 4                                 |  |
| THROCKMORTON              | 36                            | MAR 26                  | APR 09 | APR 23 | OCT 13                  | OCT 30 | NOV 16 | 227                     | 204 | 180 | 26                                |  |
|                           | 32                            | MAR 15                  | MAR 29 | APR 13 | OCT 27                  | NOV 10 | NOV 24 | 244                     | 225 | 206 | 19                                |  |
|                           | 28                            | MAR 01                  | MAR 18 | APR 04 | NOV 05                  | NOV 20 | DEC 06 | 269                     | 246 | 224 | 12                                |  |
| TULIA                     | 36                            | APR 15                  | APR 28 | MAY 10 | OCT 05                  | OCT 17 | OCT 29 | 188                     | 171 | 155 | 40                                |  |
|                           | 32                            | MAR 31                  | APR 14 | APR 28 | OCT 12                  | OCT 28 | NOV 14 | 220                     | 197 | 173 | 32                                |  |
|                           | 28                            | MAR 21                  | APR 03 | APR 17 | OCT 23                  | NOV 06 | NOV 21 | 237                     | 216 | 196 | 24                                |  |
| UVALDE                    | 36                            | MAR 07                  | MAR 23 | APR 08 | OCT 24                  | NOV 09 | NOV 24 | 252                     | 230 | 208 | 14                                |  |
|                           | 32                            | FEB 16                  | MAR 06 | MAR 24 | NOV 03                  | NOV 17 | DEC 01 | 280                     | 255 | 230 | 8                                 |  |
|                           | 28                            | JAN 31                  | FEB 23 | MAR 18 | NOV 11                  | DEC 03 | DEC 25 | 311                     | 282 | 254 | 4                                 |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                    |                    | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|--------------------|--------------------|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                    |                    |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                 | 90                 |                                 |  |
| TEXAS                     |                               |                            |                            |                            |                            |                            |                            |                         |                    |                    |                                 |  |
| VEGA                      | 36<br>32<br>28                | APR 25<br>APR 14<br>MAR 26 | MAY 05<br>APR 26<br>APR 10 | MAY 16<br>MAY 09<br>APR 26 | SEP 27<br>OCT 07<br>OCT 15 | OCT 12<br>OCT 21<br>OCT 31 | OCT 26<br>NOV 03<br>NOV 16 | 179<br>198<br>226       | 158<br>176<br>203  | 138<br>155<br>180  | 43<br>36<br>28                  |  |
| VERNON                    | 36<br>32<br>28                | MAR 27<br>MAR 13<br>MAR 01 | APR 07<br>MAR 27<br>MAR 17 | APR 18<br>APR 09<br>APR 02 | OCT 16<br>OCT 28<br>NOV 01 | NOV 02<br>NOV 09<br>NOV 19 | NOV 18<br>NOV 22<br>DEC 07 | 229<br>244<br>273       | 208<br>227<br>246  | 186<br>210<br>219  | 25<br>18<br>12                  |  |
| WACO WSO                  | 36<br>32<br>28                | MAR 10<br>FEB 20<br>JAN 29 | MAR 27<br>MAR 12<br>FEB 25 | APR 13<br>MAR 31<br>MAR 25 | OCT 21<br>NOV 04<br>NOV 18 | NOV 08<br>NOV 24<br>DEC 07 | NOV 26<br>DEC 13<br>DEC 27 | 249<br>283<br>318       | 225<br>256<br>284  | 202<br>230<br>251  | 15<br>9<br>5                    |  |
| WAXAHACHIE                | 36<br>32<br>28                | MAR 15<br>MAR 02<br>FEB 12 | MAR 30<br>MAR 20<br>MAR 04 | APR 14<br>APR 07<br>MAR 24 | OCT 21<br>OCT 28<br>NOV 04 | NOV 06<br>NOV 14<br>NOV 27 | NOV 21<br>NOV 30<br>DEC 20 | 242<br>263<br>300       | 220<br>238<br>267  | 197<br>213<br>235  | 19<br>13<br>7                   |  |
| WEATHERFORD               | 36<br>32<br>28                | MAR 21<br>MAR 11<br>FEB 26 | APR 03<br>MAR 27<br>MAR 15 | APR 16<br>APR 11<br>APR 02 | OCT 15<br>OCT 25<br>OCT 31 | OCT 30<br>NOV 09<br>NOV 20 | NOV 15<br>NOV 23<br>DEC 11 | 229<br>244<br>275       | 209<br>226<br>249  | 190<br>208<br>224  | 23<br>17<br>11                  |  |
| WESLACO 2 E               | 36<br>32<br>28                | JAN 18<br>-<br>-           | FEB 14<br>JAN 19<br>-      | MAR 13<br>MAR 01<br>JAN 23 | NOV 16<br>NOV 24<br>DEC 21 | DEC 11<br>DEC 31<br>-      | JAN 08<br>-<br>-           | 340<br>>365<br>>365     | 300<br>346<br>>365 | 264<br>293<br>>365 | 2<br>1<br>0                     |  |
| WHITNEY DAM               | 36<br>32<br>28                | MAR 16<br>FEB 27<br>FEB 14 | MAR 31<br>MAR 16<br>MAR 02 | APR 16<br>APR 02<br>MAR 18 | OCT 23<br>OCT 30<br>NOV 06 | NOV 07<br>NOV 16<br>NOV 30 | NOV 23<br>DEC 04<br>DEC 24 | 243<br>272<br>300       | 220<br>244<br>272  | 198<br>217<br>245  | 20<br>13<br>7                   |  |
| HILLS POINT               | 36<br>32<br>28                | MAR 19<br>MAR 03<br>FEB 16 | APR 01<br>MAR 19<br>MAR 08 | APR 15<br>APR 04<br>MAR 28 | OCT 24<br>OCT 29<br>NOV 04 | NOV 06<br>NOV 15<br>NOV 29 | NOV 20<br>DEC 03<br>DEC 24 | 236<br>260<br>297       | 218<br>241<br>265  | 200<br>221<br>234  | 20<br>14<br>8                   |  |
| WINK FAA AIRPORT          | 36<br>32<br>28                | MAR 27<br>MAR 13<br>FEB 26 | APR 10<br>MAR 30<br>MAR 16 | APR 24<br>APR 16<br>APR 04 | OCT 15<br>OCT 24<br>NOV 01 | OCT 29<br>NOV 06<br>NOV 17 | NOV 12<br>NOV 20<br>DEC 03 | 225<br>244<br>271       | 201<br>220<br>245  | 178<br>197<br>219  | 27<br>20<br>13                  |  |
| YSLETA                    | 36<br>32<br>28                | APR 03<br>MAR 15<br>FEB 26 | APR 19<br>APR 01<br>MAR 18 | MAY 05<br>APR 18<br>APR 07 | OCT 12<br>OCT 23<br>OCT 28 | OCT 24<br>NOV 04<br>NOV 10 | NOV 05<br>NOV 15<br>NOV 23 | 209<br>241<br>262       | 187<br>216<br>236  | 166<br>190<br>210  | 32<br>23<br>16                  |  |
| UTAH                      |                               |                            |                            |                            |                            |                            |                            |                         |                    |                    |                                 |  |
| ALTON                     | 36<br>32<br>28                | JUN 05<br>MAY 23<br>MAY 07 | JUN 17<br>JUN 05<br>MAY 24 | JUN 29<br>JUN 18<br>JUN 10 | AUG 25<br>SEP 05<br>SEP 21 | SEP 10<br>SEP 22<br>OCT 09 | SEP 26<br>OCT 10<br>OCT 27 | 106<br>131<br>161       | 84<br>108<br>137   | 62<br>86<br>114    | 64<br>55<br>45                  |  |
| BEAR RIVER REFUGE         | 36<br>32<br>28                | APR 27<br>APR 13<br>MAR 26 | MAY 14<br>MAY 28<br>APR 11 | MAY 31<br>MAY 13<br>APR 27 | SEP 12<br>SEP 28<br>OCT 19 | SEP 29<br>OCT 13<br>OCT 30 | OCT 16<br>OCT 28<br>NOV 11 | 161<br>190<br>219       | 137<br>167<br>202  | 113<br>145<br>185  | 48<br>39<br>30                  |  |
| BEAVER                    | 36<br>32<br>28                | JUN 04<br>MAY 19<br>MAY 04 | JUN 18<br>JUN 07<br>MAY 24 | JUL 01<br>JUN 25<br>JUN 14 | AUG 19<br>SEP 01<br>SEP 09 | SEP 04<br>SEP 14<br>SEP 24 | SEP 19<br>SEP 27<br>OCT 09 | 101<br>126<br>146       | 77<br>99<br>122    | 54<br>72<br>98     | 64<br>55<br>45                  |  |
| BLACK ROCK                | 36<br>32<br>28                | MAY 31<br>MAY 13<br>APR 25 | JUN 16<br>MAY 31<br>MAY 15 | JUL 02<br>JUN 19<br>JUN 04 | AUG 20<br>SEP 06<br>SEP 11 | SEP 06<br>SEP 18<br>SEP 26 | SEP 22<br>SEP 30<br>OCT 11 | 107<br>133<br>157       | 81<br>109<br>133   | 55<br>85<br>109    | 60<br>51<br>42                  |  |
| BLANDING                  | 36<br>32<br>28                | MAY 12<br>APR 27<br>APR 14 | MAY 28<br>MAY 12<br>APR 30 | JUN 13<br>MAY 28<br>MAY 16 | SEP 14<br>SEP 25<br>OCT 04 | SEP 30<br>OCT 12<br>OCT 20 | OCT 17<br>OCT 29<br>NOV 05 | 147<br>172<br>196       | 125<br>152<br>172  | 102<br>132<br>149  | 52<br>44<br>35                  |  |
| BLUFF                     | 36<br>32<br>28                | MAY 03<br>APR 21<br>APR 06 | MAY 20<br>MAY 07<br>APR 24 | JUN 07<br>MAY 22<br>MAY 11 | SEP 12<br>SEP 23<br>OCT 02 | SEP 25<br>OCT 05<br>OCT 17 | OCT 08<br>OCT 17<br>NOV 02 | 147<br>174<br>203       | 127<br>151<br>176  | 107<br>128<br>149  | 51<br>43<br>34                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE / FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                     |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                     |  |
| <b>UTAH</b>               |                               |                         |        |        |                         |        |        |                         |     |     |                                     |  |
| BRYCE CANYON FAAR AP      | 36                            | JUN 26                  | JUL 07 | JUL 19 | AUG 04                  | AUG 22 | SEP 08 | 65                      | 44  | 24  | 76                                  |  |
|                           | 32                            | JUN 12                  | JUN 26 | JUL 09 | AUG 13                  | AUG 31 | SEP 17 | 88                      | 65  | 43  | 68                                  |  |
|                           | 28                            | MAY 25                  | JUN 11 | JUN 28 | AUG 29                  | SEP 15 | OCT 01 | 122                     | 95  | 68  | 58                                  |  |
| BRYCE CANYON NP HDQ       | 36                            | JUN 21                  | JUL 04 | JUL 16 | AUG 04                  | AUG 21 | SEP 06 | 69                      | 47  | 26  | 73                                  |  |
|                           | 32                            | JUN 08                  | JUN 22 | JUL 05 | AUG 11                  | AUG 31 | SEP 19 | 94                      | 69  | 45  | 66                                  |  |
|                           | 28                            | MAY 27                  | JUN 10 | JUN 24 | AUG 28                  | SEP 14 | OCT 02 | 118                     | 96  | 74  | 57                                  |  |
| CAPITOL REEF NATL MON     | 36                            | APR 27                  | MAY 12 | MAY 28 | SEP 25                  | OCT 12 | OCT 30 | 179                     | 152 | 126 | 44                                  |  |
|                           | 32                            | APR 16                  | APR 30 | MAY 15 | OCT 05                  | OCT 21 | NOV 06 | 196                     | 173 | 150 | 37                                  |  |
|                           | 28                            | APR 01                  | APR 16 | APR 30 | OCT 22                  | NOV 05 | NOV 18 | 220                     | 203 | 185 | 29                                  |  |
| CEDAR CITY FAAR AP        | 36                            | MAY 18                  | JUN 05 | JUN 22 | SEP 05                  | SEP 21 | OCT 08 | 135                     | 108 | 81  | 53                                  |  |
|                           | 32                            | MAY 01                  | MAY 20 | JUN 08 | SEP 14                  | OCT 02 | OCT 19 | 164                     | 134 | 104 | 44                                  |  |
|                           | 28                            | APR 17                  | MAY 04 | MAY 21 | SEP 24                  | OCT 13 | NOV 01 | 187                     | 162 | 137 | 34                                  |  |
| COTTONWOOD WEIR           | 36                            | MAY 05                  | MAY 20 | JUN 05 | SEP 18                  | OCT 05 | OCT 22 | 161                     | 137 | 112 | 43                                  |  |
|                           | 32                            | APR 20                  | MAY 05 | MAY 20 | SEP 25                  | OCT 14 | NOV 02 | 187                     | 161 | 135 | 34                                  |  |
|                           | 28                            | MAR 30                  | APR 17 | MAY 04 | OCT 15                  | NOV 02 | NOV 20 | 225                     | 198 | 172 | 24                                  |  |
| COVE FORT                 | 36                            | JUN 07                  | JUN 20 | JUL 03 | AUG 24                  | SEP 07 | SEP 21 | 96                      | 78  | 60  | 61                                  |  |
|                           | 32                            | MAY 16                  | JUN 07 | JUN 28 | AUG 29                  | SEP 15 | OCT 01 | 128                     | 99  | 70  | 52                                  |  |
|                           | 28                            | MAY 01                  | MAY 22 | JUN 12 | SEP 10                  | SEP 27 | OCT 14 | 154                     | 127 | 100 | 42                                  |  |
| DEER CREEK DAM            | 36                            | JUN 12                  | JUN 28 | JUL 14 | AUG 07                  | AUG 25 | SEP 11 | 84                      | 57  | 30  | 69                                  |  |
|                           | 32                            | MAY 24                  | JUN 10 | JUN 27 | AUG 25                  | SEP 10 | SEP 26 | 116                     | 91  | 66  | 59                                  |  |
|                           | 28                            | MAY 01                  | MAY 24 | JUN 16 | SEP 07                  | SEP 22 | OCT 08 | 145                     | 120 | 96  | 49                                  |  |
| DESERET                   | 36                            | MAY 22                  | JUN 09 | JUN 27 | AUG 24                  | SEP 08 | SEP 23 | 115                     | 91  | 66  | 58                                  |  |
|                           | 32                            | MAY 08                  | MAY 25 | JUN 11 | SEP 06                  | SEP 20 | OCT 04 | 142                     | 117 | 92  | 50                                  |  |
|                           | 28                            | APR 19                  | MAY 07 | MAY 24 | SEP 15                  | SEP 28 | OCT 11 | 167                     | 144 | 120 | 41                                  |  |
| DESERT EXP RANGE          | 36                            | MAY 24                  | JUN 09 | JUN 24 | AUG 31                  | SEP 14 | SEP 29 | 119                     | 97  | 75  | 58                                  |  |
|                           | 32                            | MAY 08                  | MAY 24 | JUN 08 | SEP 08                  | SEP 22 | OCT 07 | 139                     | 121 | 102 | 50                                  |  |
|                           | 28                            | APR 22                  | MAY 10 | MAY 29 | SEP 15                  | OCT 04 | OCT 23 | 169                     | 146 | 122 | 41                                  |  |
| DUGWAY                    | 36                            | MAY 02                  | MAY 24 | JUN 15 | SEP 12                  | SEP 25 | OCT 08 | 151                     | 123 | 95  | 49                                  |  |
|                           | 32                            | APR 19                  | MAY 09 | MAY 28 | SEP 16                  | OCT 01 | OCT 16 | 173                     | 144 | 116 | 41                                  |  |
|                           | 28                            | APR 09                  | APR 24 | MAY 08 | SEP 27                  | OCT 15 | NOV 01 | 199                     | 173 | 147 | 31                                  |  |
| ECHO DAM                  | 36                            | JUN 08                  | JUN 24 | JUL 10 | AUG 14                  | AUG 27 | SEP 10 | 85                      | 64  | 42  | 66                                  |  |
|                           | 32                            | MAY 22                  | JUN 10 | JUN 29 | AUG 24                  | SEP 07 | SEP 22 | 115                     | 89  | 63  | 56                                  |  |
|                           | 28                            | APR 22                  | MAY 19 | JUN 16 | SEP 03                  | SEP 21 | OCT 09 | 159                     | 124 | 90  | 45                                  |  |
| ELBERTA                   | 36                            | MAY 10                  | MAY 30 | JUN 19 | SEP 10                  | SEP 23 | OCT 05 | 140                     | 115 | 91  | 52                                  |  |
|                           | 32                            | MAY 02                  | MAY 19 | JUN 06 | SEP 14                  | SEP 30 | OCT 15 | 155                     | 133 | 110 | 44                                  |  |
|                           | 28                            | APR 20                  | MAY 07 | MAY 24 | SEP 25                  | OCT 12 | OCT 29 | 182                     | 158 | 133 | 33                                  |  |
| EPHRAIM SORENSENS FLD     | 36                            | MAY 19                  | JUN 04 | JUN 21 | AUG 30                  | SEP 16 | OCT 03 | 127                     | 103 | 80  | 57                                  |  |
|                           | 32                            | MAY 06                  | MAY 23 | JUN 10 | SEP 12                  | SEP 25 | OCT 08 | 147                     | 124 | 101 | 48                                  |  |
|                           | 28                            | APR 18                  | MAY 07 | MAY 27 | SEP 18                  | OCT 06 | OCT 24 | 178                     | 151 | 124 | 39                                  |  |
| ESCALANTE                 | 36                            | MAY 16                  | JUN 03 | JUN 21 | SEP 05                  | SEP 21 | OCT 07 | 138                     | 109 | 80  | 56                                  |  |
|                           | 32                            | MAY 03                  | MAY 20 | JUN 06 | SEP 21                  | OCT 06 | OCT 21 | 163                     | 138 | 114 | 47                                  |  |
|                           | 28                            | APR 16                  | MAY 03 | MAY 20 | SEP 26                  | OCT 13 | OCT 30 | 186                     | 162 | 139 | 38                                  |  |
| FAIRFIELD                 | 36                            | JUN 03                  | JUN 20 | JUL 07 | AUG 14                  | AUG 30 | SEP 14 | 97                      | 70  | 43  | 65                                  |  |
|                           | 32                            | MAY 19                  | JUN 08 | JUN 28 | AUG 22                  | SEP 09 | SEP 26 | 118                     | 91  | 65  | 56                                  |  |
|                           | 28                            | MAY 05                  | MAY 25 | JUN 14 | SEP 06                  | SEP 22 | OCT 07 | 140                     | 119 | 97  | 46                                  |  |
| FARMINGTON USU FLD STA    | 36                            | MAY 06                  | MAY 25 | JUN 13 | SEP 12                  | SEP 27 | OCT 11 | 147                     | 124 | 101 | 48                                  |  |
|                           | 32                            | APR 23                  | MAY 10 | MAY 27 | SEP 23                  | OCT 07 | OCT 21 | 172                     | 150 | 127 | 39                                  |  |
|                           | 28                            | APR 04                  | APR 20 | MAY 06 | OCT 06                  | OCT 21 | NOV 06 | 207                     | 183 | 159 | 29                                  |  |
| FERRON                    | 36                            | MAY 12                  | JUN 01 | JUN 21 | SEP 05                  | SEP 22 | OCT 10 | 141                     | 113 | 84  | 54                                  |  |
|                           | 32                            | APR 25                  | MAY 18 | JUN 10 | SEP 15                  | OCT 03 | OCT 20 | 169                     | 137 | 105 | 48                                  |  |
|                           | 28                            | APR 14                  | MAY 03 | MAY 22 | SEP 26                  | OCT 14 | OCT 31 | 190                     | 163 | 136 | 41                                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| UTAH                      |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| FILLMORE                  | 36                            | MAY 12                  | MAY 30 | JUN 17 | SEP 05                  | SEP 22 | OCT 09 | 139                     | 114 | 89  | 51                                |  |
|                           | 32                            | MAY 03                  | MAY 19 | JUN 05 | SEP 17                  | OCT 03 | OCT 18 | 161                     | 136 | 111 | 43                                |  |
|                           | 28                            | APR 12                  | MAY 05 | MAY 28 | SEP 24                  | OCT 13 | NOV 01 | 196                     | 160 | 125 | 32                                |  |
| FORT DUCHESNE             | 36                            | MAY 19                  | JUN 08 | JUN 28 | AUG 25                  | SEP 09 | SEP 23 | 117                     | 92  | 67  | 62                                |  |
|                           | 32                            | MAY 09                  | MAY 27 | JUN 13 | SEP 06                  | SEP 19 | OCT 02 | 135                     | 115 | 94  | 55                                |  |
|                           | 28                            | APR 23                  | MAY 11 | MAY 29 | SEP 13                  | SEP 30 | OCT 17 | 165                     | 141 | 118 | 47                                |  |
| GARFIELD                  | 36                            | APR 16                  | MAY 06 | MAY 25 | SEP 25                  | OCT 11 | OCT 26 | 182                     | 157 | 132 | 39                                |  |
|                           | 32                            | MAR 31                  | APR 21 | MAY 13 | OCT 09                  | OCT 27 | NOV 15 | 221                     | 188 | 156 | 30                                |  |
|                           | 28                            | MAR 10                  | MAR 29 | APR 17 | OCT 20                  | NOV 06 | NOV 23 | 248                     | 221 | 194 | 22                                |  |
| GREEN RIVER AVN           | 36                            | MAY 04                  | MAY 20 | JUN 06 | SEP 12                  | SEP 24 | OCT 07 | 150                     | 126 | 103 | 52                                |  |
|                           | 32                            | APR 20                  | MAY 06 | MAY 22 | SEP 20                  | OCT 05 | OCT 20 | 174                     | 151 | 128 | 45                                |  |
|                           | 28                            | APR 10                  | APR 24 | MAY 08 | OCT 02                  | OCT 16 | OCT 30 | 196                     | 175 | 153 | 38                                |  |
| HANKSVILLE                | 36                            | APR 23                  | MAY 16 | JUN 08 | SEP 12                  | OCT 01 | OCT 21 | 176                     | 138 | 99  | 49                                |  |
|                           | 32                            | APR 18                  | MAY 08 | MAY 27 | SEP 23                  | OCT 12 | OCT 31 | 189                     | 156 | 124 | 43                                |  |
|                           | 28                            | APR 04                  | APR 20 | MAY 06 | SEP 30                  | OCT 19 | NOV 08 | 211                     | 182 | 153 | 36                                |  |
| HEBER                     | 36                            | JUN 12                  | JUN 25 | JUL 08 | AUG 10                  | AUG 27 | SEP 14 | 87                      | 63  | 38  | 67                                |  |
|                           | 32                            | MAY 22                  | JUN 08 | JUN 26 | AUG 24                  | SEP 10 | SEP 27 | 119                     | 93  | 67  | 58                                |  |
|                           | 28                            | MAY 02                  | MAY 25 | JUN 16 | SEP 06                  | SEP 22 | OCT 07 | 147                     | 119 | 92  | 47                                |  |
| HIAWATHA                  | 36                            | MAY 17                  | JUN 06 | JUN 27 | AUG 31                  | SEP 20 | OCT 10 | 136                     | 105 | 75  | 56                                |  |
|                           | 32                            | MAY 07                  | MAY 25 | JUN 13 | SEP 16                  | OCT 03 | OCT 19 | 156                     | 129 | 103 | 49                                |  |
|                           | 28                            | APR 19                  | MAY 09 | MAY 29 | SEP 25                  | OCT 14 | NOV 03 | 188                     | 157 | 127 | 41                                |  |
| JENSEN                    | 36                            | MAY 16                  | JUN 05 | JUN 25 | AUG 20                  | SEP 06 | SEP 23 | 123                     | 92  | 61  | 62                                |  |
|                           | 32                            | MAY 07                  | MAY 25 | JUN 13 | AUG 31                  | SEP 14 | SEP 28 | 138                     | 112 | 85  | 55                                |  |
|                           | 28                            | APR 23                  | MAY 08 | MAY 23 | SEP 12                  | SEP 28 | OCT 13 | 165                     | 142 | 120 | 48                                |  |
| KANAB                     | 36                            | MAY 05                  | MAY 20 | JUN 04 | SEP 22                  | OCT 07 | OCT 22 | 162                     | 140 | 117 | 46                                |  |
|                           | 32                            | APR 20                  | MAY 07 | MAY 25 | OCT 06                  | OCT 22 | NOV 07 | 191                     | 167 | 143 | 36                                |  |
|                           | 28                            | MAR 30                  | APR 22 | MAY 15 | OCT 13                  | OCT 29 | NOV 15 | 218                     | 190 | 162 | 26                                |  |
| LAKETOWN                  | 36                            | JUN 15                  | JUL 03 | JUL 21 | AUG 07                  | AUG 23 | SEP 09 | 78                      | 50  | 23  | 69                                |  |
|                           | 32                            | MAY 27                  | JUN 16 | JUL 06 | AUG 19                  | SEP 06 | SEP 24 | 106                     | 81  | 55  | 60                                |  |
|                           | 28                            | MAY 03                  | MAY 24 | JUN 15 | SEP 07                  | SEP 23 | OCT 09 | 147                     | 121 | 96  | 48                                |  |
| LA VERKIN                 | 36                            | APR 24                  | MAY 12 | MAY 30 | SEP 27                  | OCT 13 | OCT 29 | 177                     | 153 | 128 | 38                                |  |
|                           | 32                            | APR 01                  | APR 21 | MAY 11 | OCT 06                  | OCT 22 | NOV 07 | 212                     | 184 | 155 | 29                                |  |
|                           | 28                            | MAR 08                  | APR 04 | MAY 02 | OCT 23                  | NOV 06 | NOV 21 | 252                     | 215 | 179 | 20                                |  |
| LEVAN                     | 36                            | MAY 21                  | JUN 09 | JUN 27 | AUG 29                  | SEP 15 | OCT 02 | 124                     | 98  | 72  | 55                                |  |
|                           | 32                            | MAY 08                  | MAY 25 | JUN 10 | SEP 12                  | SEP 27 | OCT 11 | 146                     | 124 | 102 | 47                                |  |
|                           | 28                            | APR 19                  | MAY 06 | MAY 23 | SEP 22                  | OCT 08 | OCT 23 | 178                     | 154 | 129 | 37                                |  |
| LOA                       | 36                            | JUN 12                  | JUN 25 | JUL 09 | AUG 12                  | AUG 28 | SEP 12 | 82                      | 63  | 43  | 70                                |  |
|                           | 32                            | JUN 01                  | JUN 15 | JUN 28 | AUG 20                  | SEP 05 | SEP 22 | 102                     | 82  | 62  | 62                                |  |
|                           | 28                            | MAY 13                  | MAY 31 | JUN 18 | AUG 31                  | SEP 18 | OCT 06 | 138                     | 109 | 80  | 53                                |  |
| LOGAN UTAH STATE UNIV     | 36                            | MAY 04                  | MAY 20 | JUN 05 | SEP 13                  | SEP 27 | OCT 11 | 151                     | 129 | 107 | 49                                |  |
|                           | 32                            | APR 21                  | MAY 07 | MAY 22 | SEP 27                  | OCT 12 | OCT 27 | 180                     | 158 | 136 | 40                                |  |
|                           | 28                            | APR 07                  | APR 21 | MAY 04 | OCT 10                  | OCT 26 | NOV 11 | 211                     | 188 | 164 | 30                                |  |
| MANTI                     | 36                            | MAY 22                  | JUN 09 | JUN 27 | SEP 02                  | SEP 18 | OCT 04 | 124                     | 100 | 76  | 56                                |  |
|                           | 32                            | MAY 04                  | MAY 25 | JUN 15 | SEP 12                  | SEP 26 | OCT 09 | 148                     | 123 | 98  | 48                                |  |
|                           | 28                            | APR 24                  | MAY 10 | MAY 25 | SEP 20                  | OCT 07 | OCT 25 | 174                     | 150 | 127 | 38                                |  |
| MEXICAN HAT               | 36                            | APR 19                  | MAY 04 | MAY 19 | SEP 27                  | OCT 13 | OCT 29 | 185                     | 161 | 137 | 45                                |  |
|                           | 32                            | APR 10                  | APR 22 | MAY 04 | OCT 08                  | OCT 23 | NOV 06 | 202                     | 183 | 163 | 37                                |  |
|                           | 28                            | MAR 27                  | APR 08 | APR 20 | OCT 18                  | NOV 01 | NOV 15 | 222                     | 207 | 191 | 28                                |  |
| MILFORD WSO               | 36                            | MAY 23                  | JUN 08 | JUN 24 | AUG 30                  | SEP 14 | SEP 29 | 120                     | 97  | 75  | 58                                |  |
|                           | 32                            | MAY 06                  | MAY 25 | JUN 13 | SEP 08                  | SEP 22 | OCT 06 | 144                     | 120 | 95  | 50                                |  |
|                           | 28                            | APR 25                  | MAY 12 | MAY 29 | SEP 17                  | OCT 04 | OCT 21 | 166                     | 144 | 123 | 40                                |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| <b>UTAH</b>               |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| MOAB 4 NW                 | 36<br>32<br>28                | APR 11<br>MAR 30<br>MAR 16 | APR 28<br>APR 15<br>MAR 30 | MAY 14<br>MAY 01<br>APR 13 | SEP 24<br>OCT 08<br>OCT 19 | OCT 09<br>OCT 22<br>NOV 02 | OCT 25<br>NOV 05<br>NOV 15 | 188<br>215<br>238       | 164<br>190<br>216 | 140<br>164<br>194 | 41<br>33<br>26                    |  |
| MODENA                    | 36<br>32<br>28                | MAY 30<br>MAY 15<br>APR 27 | JUN 13<br>JUN 02<br>MAY 17 | JUN 28<br>JUN 20<br>JUN 05 | AUG 26<br>SEP 07<br>SEP 19 | SEP 11<br>SEP 21<br>OCT 06 | SEP 26<br>OCT 05<br>OCT 23 | 111<br>135<br>165       | 88<br>110<br>141  | 66<br>85<br>118   | 61<br>53<br>43                    |  |
| MONTICELLO                | 36<br>32<br>28                | MAY 28<br>MAY 11<br>APR 27 | JUN 11<br>MAY 31<br>MAY 12 | JUN 24<br>JUN 20<br>MAY 27 | AUG 28<br>SEP 11<br>SEP 21 | SEP 14<br>SEP 27<br>OCT 10 | OCT 02<br>OCT 12<br>OCT 29 | 119<br>145<br>172       | 95<br>118<br>151  | 70<br>91<br>129   | 59<br>51<br>40                    |  |
| MORGAN                    | 36<br>32<br>28                | JUN 06<br>MAY 18<br>APR 24 | JUN 24<br>JUN 08<br>MAY 19 | JUL 12<br>JUN 30<br>JUN 12 | AUG 12<br>AUG 24<br>SEP 03 | AUG 28<br>SEP 10<br>SEP 20 | SEP 13<br>SEP 27<br>OCT 07 | 90<br>123<br>158        | 64<br>93<br>124   | 38<br>62<br>90    | 65<br>55<br>43                    |  |
| MORONI                    | 36<br>32<br>28                | JUN 02<br>MAY 14<br>APR 28 | JUN 16<br>JUN 02<br>MAY 20 | JUN 30<br>JUN 21<br>JUN 11 | AUG 19<br>AUG 30<br>SEP 07 | SEP 05<br>SEP 17<br>SEP 27 | SEP 22<br>OCT 04<br>OCT 16 | 103<br>131<br>155       | 80<br>105<br>129  | 57<br>80<br>103   | 64<br>55<br>45                    |  |
| MOUNTAIN DELL DAM         | 36<br>32<br>28                | JUN 08<br>MAY 12<br>APR 24 | JUN 21<br>JUN 02<br>MAY 16 | JUL 04<br>JUN 23<br>JUN 08 | AUG 21<br>AUG 30<br>SEP 13 | SEP 05<br>SEP 17<br>SEP 30 | SEP 19<br>OCT 05<br>OCT 18 | 96<br>133<br>167        | 75<br>106<br>136  | 54<br>79<br>106   | 61<br>51<br>40                    |  |
| NEPHI                     | 36<br>32<br>28                | MAY 11<br>APR 29<br>APR 18 | MAY 29<br>MAY 16<br>MAY 04 | JUN 16<br>JUN 03<br>MAY 21 | SEP 09<br>SEP 17<br>SEP 27 | SEP 24<br>OCT 01<br>OCT 13 | OCT 08<br>OCT 15<br>OCT 29 | 139<br>160<br>185       | 117<br>137<br>161 | 95<br>114<br>138  | 52<br>43<br>32                    |  |
| DAK CITY                  | 36<br>32<br>28                | MAY 11<br>APR 30<br>APR 15 | MAY 26<br>MAY 15<br>APR 28 | JUN 09<br>MAY 30<br>MAY 12 | SEP 09<br>SEP 20<br>SEP 30 | SEP 25<br>OCT 06<br>OCT 18 | OCT 11<br>OCT 22<br>NOV 05 | 145<br>165<br>197       | 122<br>144<br>172 | 99<br>122<br>146  | 48<br>40<br>29                    |  |
| OGDEN PIONEER PH          | 36<br>32<br>28                | MAY 03<br>APR 21<br>APR 01 | MAY 19<br>MAY 04<br>APR 17 | JUN 03<br>MAY 18<br>MAY 03 | SEP 10<br>SEP 25<br>OCT 14 | SEP 29<br>OCT 13<br>OCT 27 | OCT 18<br>OCT 31<br>NOV 09 | 154<br>183<br>211       | 133<br>161<br>192 | 111<br>139<br>173 | 46<br>37<br>27                    |  |
| OGDEN SUGAR FACTORY       | 36<br>32<br>28                | APR 30<br>APR 24<br>APR 05 | MAY 18<br>MAY 09<br>APR 22 | JUN 04<br>MAY 24<br>MAY 08 | SEP 10<br>SEP 24<br>OCT 05 | SEP 25<br>OCT 09<br>OCT 22 | OCT 10<br>OCT 25<br>NOV 07 | 155<br>174<br>208       | 130<br>153<br>182 | 105<br>132<br>156 | 48<br>38<br>28                    |  |
| ORDERVILLE                | 36<br>32<br>28                | MAY 19<br>MAY 05<br>APR 26 | JUN 08<br>MAY 24<br>MAY 15 | JUN 28<br>JUN 11<br>JUN 03 | AUG 29<br>SEP 15<br>SEP 21 | SEP 14<br>OCT 01<br>OCT 10 | OCT 01<br>OCT 18<br>OCT 29 | 122<br>157<br>175       | 98<br>130<br>147  | 73<br>103<br>119  | 58<br>49<br>39                    |  |
| PAROWAN                   | 36<br>32<br>28                | MAY 13<br>MAY 04<br>APR 23 | JUN 01<br>MAY 24<br>MAY 10 | JUN 20<br>JUN 12<br>MAY 27 | SEP 05<br>SEP 12<br>SEP 22 | SEP 20<br>SEP 28<br>OCT 12 | OCT 05<br>OCT 14<br>NOV 01 | 138<br>151<br>182       | 110<br>126<br>154 | 83<br>101<br>125  | 55<br>47<br>37                    |  |
| PARTOUN                   | 36<br>32<br>28                | MAY 19<br>MAY 06<br>APR 15 | JUN 07<br>MAY 25<br>MAY 08 | JUN 26<br>JUN 14<br>MAY 30 | AUG 23<br>SEP 02<br>SEP 12 | SEP 10<br>SEP 20<br>OCT 01 | SEP 27<br>OCT 08<br>OCT 20 | 123<br>147<br>176       | 94<br>117<br>146  | 66<br>87<br>116   | 57<br>49<br>39                    |  |
| PINE VIEW DAM             | 36<br>32<br>28                | MAY 29<br>MAY 05<br>APR 18 | JUN 16<br>MAY 26<br>MAY 08 | JUL 04<br>JUN 15<br>MAY 28 | AUG 24<br>SEP 04<br>SEP 15 | SEP 08<br>SEP 21<br>OCT 02 | SEP 24<br>OCT 08<br>OCT 20 | 104<br>146<br>176       | 83<br>117<br>147  | 63<br>88<br>117   | 62<br>54<br>43                    |  |
| RICHFIELD RADIO KSVC      | 36<br>32<br>28                | JUN 02<br>MAY 12<br>APR 30 | JUN 15<br>MAY 30<br>MAY 16 | JUN 28<br>JUN 17<br>JUN 01 | AUG 22<br>SEP 03<br>SEP 13 | SEP 06<br>SEP 17<br>SEP 29 | SEP 20<br>OCT 02<br>OCT 16 | 103<br>136<br>159       | 82<br>109<br>135  | 61<br>83<br>112   | 61<br>52<br>43                    |  |
| RICHMOND                  | 36<br>32<br>28                | MAY 21<br>MAY 04<br>APR 21 | JUN 11<br>MAY 26<br>MAY 07 | JUL 02<br>JUN 18<br>MAY 23 | AUG 25<br>SEP 06<br>SEP 20 | SEP 12<br>SEP 22<br>OCT 07 | SEP 30<br>OCT 09<br>OCT 24 | 117<br>149<br>179       | 92<br>118<br>152  | 68<br>88<br>126   | 58<br>48<br>37                    |  |
| RIVERDALE POWER HOUSE     | 36<br>32<br>28                | MAY 04<br>APR 26<br>APR 06 | MAY 24<br>MAY 10<br>APR 23 | JUN 12<br>MAY 24<br>MAY 09 | SEP 11<br>SEP 25<br>OCT 08 | SEP 27<br>OCT 11<br>OCT 26 | OCT 13<br>OCT 26<br>NOV 14 | 150<br>177<br>213       | 126<br>153<br>186 | 102<br>129<br>159 | 46<br>37<br>27                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                 |  |
| UTAH                      |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                 |  |
| ROOSEVELT                 | 36<br>32<br>28                | MAY 10<br>MAY 01<br>APR 18 | MAY 29<br>MAY 17<br>MAY 02 | JUN 17<br>JUN 01<br>MAY 15 | AUG 31<br>SEP 13<br>SEP 25 | SEP 17<br>SEP 27<br>OCT 12 | OCT 04<br>OCT 11<br>OCT 28 | 134<br>151<br>184          | 110<br>133<br>162 | 86<br>114<br>140  | 57<br>50<br>42                  |  |
| SAINT GEORGE              | 36<br>32<br>28                | APR 02<br>MAR 09<br>FEB 17 | APR 20<br>MAR 31<br>MAR 11 | MAY 07<br>APR 21<br>APR 02 | OCT 09<br>OCT 20<br>OCT 31 | OCT 23<br>NOV 04<br>NOV 14 | NOV 06<br>NOV 18<br>NOV 27 | 212<br>244<br>276          | 186<br>217<br>247 | 160<br>190<br>218 | 33<br>24<br>16                  |  |
| SALINA                    | 36<br>32<br>28                | MAY 28<br>MAY 14<br>APR 20 | JUN 14<br>JUN 01<br>MAY 20 | JUN 30<br>JUN 19<br>JUN 09 | AUG 22<br>SEP 01<br>SEP 14 | SEP 08<br>SEP 17<br>OCT 01 | SEP 24<br>OCT 04<br>OCT 17 | 111<br>137<br>169          | 85<br>107<br>138  | 60<br>77<br>107   | 59<br>51<br>41                  |  |
| SANTAQUIN                 | 36<br>32<br>28                | MAY 09<br>MAY 01<br>APR 14 | MAY 29<br>MAY 18<br>APR 29 | JUN 17<br>JUN 03<br>MAY 15 | SEP 12<br>SEP 18<br>SEP 30 | SEP 25<br>OCT 04<br>OCT 16 | OCT 09<br>OCT 19<br>NOV 01 | 142<br>159<br>192          | 118<br>138<br>169 | 95<br>117<br>145  | 51<br>43<br>33                  |  |
| SCIPIO                    | 36<br>32<br>28                | JUN 08<br>MAY 17<br>MAY 04 | JUN 21<br>JUN 04<br>MAY 23 | JUL 05<br>JUN 23<br>JUN 11 | AUG 19<br>AUG 31<br>SEP 10 | SEP 02<br>SEP 15<br>SEP 24 | SEP 16<br>SEP 30<br>OCT 08 | 92<br>127<br>147           | 72<br>102<br>123  | 52<br>76<br>99    | 63<br>54<br>44                  |  |
| SCOFIELD DAM              | 36<br>32<br>28                | JUN 20<br>JUN 09<br>MAY 22 | JUL 06<br>JUN 23<br>JUN 08 | JUL 22<br>JUL 07<br>JUN 25 | AUG 06<br>AUG 16<br>AUG 24 | AUG 23<br>SEP 03<br>SEP 12 | SEP 08<br>SEP 21<br>OCT 02 | 68<br>94<br>121            | 47<br>71<br>95    | 26<br>49<br>70    | 75<br>66<br>57                  |  |
| SILVER LAKE BRIGHTON      | 36<br>32<br>28                | JUN 29<br>JUN 14<br>MAY 29 | JUL 14<br>JUL 01<br>JUN 16 | JUL 29<br>JUL 17<br>JUL 03 | AUG 02<br>AUG 10<br>AUG 21 | AUG 17<br>AUG 27<br>SEP 05 | AUG 31<br>SEP 12<br>SEP 20 | 55<br>81<br>107            | 33<br>56<br>81    | 11<br>32<br>54    | 77<br>68<br>58                  |  |
| SNAKE CREEK PH            | 36<br>32<br>28                | JUN 16<br>MAY 29<br>MAY 07 | JUN 29<br>JUN 16<br>MAY 29 | JUL 13<br>JUL 04<br>JUN 20 | AUG 05<br>AUG 18<br>SEP 07 | AUG 21<br>SEP 05<br>SEP 22 | SEP 06<br>SEP 22<br>OCT 08 | 74<br>106<br>139           | 52<br>80<br>116   | 30<br>54<br>92    | 70<br>60<br>48                  |  |
| SPANISH FORK PWR HOUSE    | 36<br>32<br>28                | MAY 01<br>APR 20<br>APR 02 | MAY 21<br>MAY 08<br>APR 19 | JUN 09<br>MAY 26<br>MAY 05 | SEP 13<br>SEP 24<br>OCT 07 | SEP 28<br>OCT 12<br>OCT 25 | OCT 14<br>OCT 29<br>NOV 13 | 154<br>181<br>214          | 130<br>156<br>189 | 106<br>131<br>165 | 46<br>37<br>27                  |  |
| TIMPANOGOS CAVE           | 36<br>32<br>28                | MAY 07<br>APR 27<br>APR 09 | MAY 27<br>MAY 13<br>APR 25 | JUN 16<br>MAY 29<br>MAY 12 | SEP 14<br>SEP 22<br>OCT 06 | OCT 01<br>OCT 11<br>OCT 25 | OCT 18<br>OCT 29<br>NOV 13 | 154<br>179<br>209          | 126<br>150<br>182 | 97<br>121<br>155  | 49<br>40<br>29                  |  |
| TOOELE                    | 36<br>32<br>28                | MAY 02<br>APR 21<br>APR 04 | MAY 19<br>MAY 04<br>APR 20 | JUN 04<br>MAY 18<br>MAY 06 | SEP 18<br>SEP 29<br>OCT 10 | OCT 03<br>OCT 16<br>OCT 28 | OCT 18<br>NOV 01<br>NOV 15 | 159<br>189<br>217          | 137<br>164<br>190 | 114<br>138<br>163 | 45<br>37<br>27                  |  |
| TROPIC                    | 36<br>32<br>28                | MAY 27<br>MAY 12<br>APR 30 | JUN 12<br>JUN 01<br>MAY 15 | JUN 29<br>JUN 21<br>MAY 30 | AUG 19<br>SEP 07<br>SEP 19 | SEP 08<br>SEP 25<br>OCT 08 | SEP 29<br>OCT 13<br>OCT 27 | 116<br>147<br>170          | 87<br>115<br>145  | 58<br>84<br>120   | 61<br>52<br>42                  |  |
| UTAH LAKE LEHI            | 36<br>32<br>28                | MAY 12<br>APR 29<br>APR 17 | JUN 01<br>MAY 20<br>MAY 03 | JUN 21<br>JUN 11<br>MAY 19 | AUG 30<br>SEP 14<br>SEP 23 | SEP 17<br>OCT 13<br>OCT 12 | OCT 06<br>OCT 13<br>OCT 30 | 135<br>158<br>186          | 108<br>131<br>161 | 81<br>103<br>135  | 55<br>46<br>34                  |  |
| VERNAL AIRPORT            | 36<br>32<br>28                | MAY 19<br>MAY 09<br>APR 25 | JUN 05<br>MAY 29<br>MAY 14 | JUN 25<br>JUN 18<br>JUN 02 | AUG 19<br>SEP 06<br>SEP 13 | SEP 05<br>SEP 20<br>SEP 29 | SEP 21<br>OCT 05<br>OCT 15 | 119<br>140<br>164          | 90<br>114<br>137  | 60<br>87<br>111   | 61<br>54<br>47                  |  |
| WENDOVER WSO              | 36<br>32<br>28                | APR 15<br>APR 04<br>MAR 18 | MAY 02<br>MAY 08<br>APR 02 | MAY 19<br>MAY 08<br>APR 17 | SEP 26<br>OCT 10<br>OCT 19 | OCT 12<br>OCT 23<br>NOV 02 | OCT 27<br>NOV 05<br>NOV 16 | 187<br>204<br>234          | 162<br>184<br>213 | 137<br>163<br>193 | 43<br>35<br>26                  |  |
| WOODRUFF                  | 36<br>32<br>28                | JUL 02<br>JUN 08<br>MAY 15 | JUL 15<br>JUN 25<br>JUN 04 | JUL 28<br>JUL 13<br>JUN 24 | AUG 01<br>AUG 09<br>AUG 19 | AUG 10<br>SEP 04<br>SEP 02 | AUG 19<br>SEP 04<br>SEP 15 | 40<br>78<br>113            | 25<br>57<br>89    | 9<br>35<br>66     | 76<br>67<br>57                  |  |
| ZION NATIONAL PARK        | 36<br>32<br>28                | APR 19<br>MAR 28<br>MAR 06 | MAY 04<br>APR 18<br>APR 03 | MAY 20<br>MAY 09<br>MAY 02 | OCT 02<br>OCT 16<br>OCT 26 | OCT 21<br>NOV 01<br>NOV 11 | NOV 09<br>NOV 17<br>NOV 27 | 197<br>226<br>255          | 169<br>197<br>221 | 140<br>168<br>187 | 29<br>20<br>13                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|---------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                 |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                 |  |
| VERMONT                   |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| BELLOWS FALLS             | 36<br>32<br>28                | MAY 10<br>APR 28<br>APR 08 | MAY 26<br>MAY 13<br>APR 25 | JUN 10<br>MAY 28<br>MAY 13 | SEP 10<br>SEP 21<br>OCT 04 | SEP 23<br>OCT 03<br>OCT 17 | OCT 06<br>OCT 16<br>OCT 30 | 140<br>161<br>195       | 120<br>142<br>173 | 99<br>123<br>152  | 52<br>45<br>36                  |  |
| BURLINGTON WSO            | 36<br>32<br>28                | MAY 09<br>APR 27<br>APR 11 | MAY 24<br>MAY 11<br>APR 29 | JUN 08<br>MAY 25<br>MAY 18 | SEP 07<br>SEP 19<br>OCT 03 | SEP 21<br>OCT 01<br>OCT 16 | OCT 05<br>OCT 12<br>OCT 29 | 141<br>160<br>192       | 119<br>142<br>169 | 98<br>123<br>146  | 50<br>44<br>36                  |  |
| CAVENDISH                 | 36<br>32<br>28                | MAY 25<br>MAY 20<br>APR 29 | JUN 16<br>JUN 04<br>MAY 16 | JUL 08<br>JUN 19<br>JUN 02 | AUG 08<br>SEP 01<br>SEP 14 | AUG 26<br>SEP 14<br>SEP 28 | SEP 13<br>SEP 27<br>OCT 13 | 102<br>120<br>160       | 70<br>101<br>134  | 38<br>82<br>109   | 59<br>52<br>42                  |  |
| CHELSEA                   | 36<br>32<br>28                | MAY 27<br>MAY 20<br>MAY 09 | JUN 21<br>JUN 06<br>MAY 20 | JUL 15<br>JUN 23<br>JUN 01 | AUG 06<br>AUG 27<br>SEP 11 | AUG 25<br>SEP 11<br>SEP 25 | SEP 13<br>SEP 26<br>OCT 08 | 99<br>119<br>145        | 65<br>96<br>127   | 30<br>74<br>109   | 62<br>55<br>46                  |  |
| CORNWALL                  | 36<br>32<br>28                | MAY 13<br>APR 30<br>APR 11 | MAY 29<br>MAY 16<br>APR 27 | JUN 14<br>MAY 31<br>MAY 12 | SEP 02<br>SEP 12<br>SEP 22 | SEP 16<br>SEP 27<br>OCT 08 | SEP 29<br>OCT 12<br>OCT 24 | 132<br>154<br>188       | 109<br>134<br>164 | 86<br>113<br>140  | 50<br>43<br>35                  |  |
| DORSET 1 S                | 36<br>32<br>28                | MAY 26<br>MAY 16<br>APR 26 | JUN 11<br>MAY 30<br>MAY 14 | JUN 27<br>JUN 14<br>JUN 02 | AUG 08<br>SEP 02<br>SEP 15 | AUG 26<br>SEP 16<br>SEP 30 | SEP 13<br>SEP 30<br>OCT 14 | 100<br>125<br>158       | 75<br>108<br>138  | 51<br>91<br>117   | 55<br>48<br>39                  |  |
| ENOSBURG FALLS            | 36<br>32<br>28                | MAY 26<br>MAY 10<br>APR 25 | JUN 10<br>MAY 24<br>MAY 09 | JUN 25<br>JUN 08<br>MAY 23 | AUG 23<br>SEP 07<br>SEP 20 | SEP 07<br>SEP 19<br>OCT 02 | SEP 22<br>OCT 02<br>OCT 14 | 110<br>137<br>163       | 89<br>117<br>145  | 67<br>98<br>126   | 55<br>47<br>40                  |  |
| MONTPELIER FAA AIRPORT    | 36<br>32<br>28                | MAY 16<br>MAY 02<br>APR 16 | JUN 05<br>MAY 18<br>MAY 06 | JUN 24<br>JUN 03<br>MAY 25 | AUG 26<br>SEP 08<br>SEP 21 | SEP 11<br>SEP 23<br>OCT 08 | SEP 27<br>OCT 09<br>OCT 24 | 125<br>153<br>181       | 98<br>128<br>154  | 70<br>103<br>128  | 55<br>47<br>39                  |  |
| NEWPORT                   | 36<br>32<br>28                | MAY 18<br>MAY 04<br>APR 21 | MAY 31<br>MAY 20<br>MAY 06 | JUN 13<br>JUN 06<br>MAY 21 | SEP 02<br>SEP 10<br>SEP 23 | SEP 13<br>SEP 24<br>OCT 07 | SEP 25<br>OCT 07<br>OCT 20 | 125<br>148<br>172       | 105<br>126<br>153 | 85<br>103<br>134  | 57<br>49<br>41                  |  |
| READSBORO 1 SSE           | 36<br>32<br>28                | MAY 22<br>MAY 03<br>APR 16 | JUN 04<br>MAY 20<br>MAY 04 | JUN 17<br>JUN 05<br>MAY 21 | SEP 04<br>SEP 13<br>SEP 23 | SEP 15<br>SEP 26<br>OCT 09 | SEP 26<br>OCT 09<br>OCT 25 | 118<br>147<br>179       | 102<br>129<br>158 | 86<br>111<br>136  | 56<br>48<br>39                  |  |
| RUTLAND                   | 36<br>32<br>28                | MAY 14<br>APR 28<br>APR 11 | MAY 28<br>MAY 13<br>MAY 29 | JUN 10<br>MAY 27<br>MAY 17 | SEP 04<br>SEP 13<br>SEP 25 | SEP 17<br>SEP 27<br>OCT 12 | OCT 01<br>OCT 12<br>OCT 29 | 131<br>155<br>188       | 112<br>137<br>165 | 93<br>119<br>142  | 50<br>42<br>34                  |  |
| SAINT JOHNSBURY           | 36<br>32<br>28                | MAY 21<br>MAY 09<br>APR 22 | JUN 04<br>MAY 22<br>MAY 07 | JUN 17<br>JUN 05<br>MAY 23 | SEP 02<br>SEP 15<br>SEP 23 | SEP 14<br>SEP 25<br>OCT 07 | SEP 26<br>OCT 05<br>OCT 21 | 122<br>143<br>170       | 102<br>125<br>152 | 82<br>107<br>133  | 55<br>48<br>38                  |  |
| VERNON                    | 36<br>32<br>28                | MAY 11<br>MAY 02<br>APR 17 | MAY 26<br>MAY 16<br>MAY 04 | JUN 11<br>MAY 30<br>MAY 22 | SEP 06<br>SEP 17<br>SEP 27 | SEP 21<br>OCT 01<br>OCT 11 | OCT 06<br>OCT 14<br>OCT 26 | 138<br>154<br>181       | 117<br>137<br>159 | 95<br>120<br>138  | 53<br>47<br>38                  |  |
| WEST BURKE                | 36<br>32<br>28                | JUN 05<br>MAY 24<br>MAY 09 | JUN 30<br>JUN 10<br>MAY 22 | JUL 25<br>JUN 27<br>JUN 05 | AUG 03<br>AUG 28<br>SEP 08 | AUG 20<br>SEP 09<br>SEP 20 | SEP 06<br>SEP 22<br>OCT 02 | 81<br>114<br>139        | 51<br>91<br>120   | 21<br>67<br>100   | 65<br>59<br>49                  |  |
| WOODSTOCK 2 HSW           | 36<br>32<br>28                | MAY 27<br>MAY 13<br>APR 26 | JUN 10<br>MAY 28<br>MAY 12 | JUN 25<br>JUN 11<br>MAY 27 | AUG 16<br>SEP 06<br>SEP 17 | SEP 03<br>SEP 19<br>SEP 30 | SEP 20<br>OCT 02<br>OCT 12 | 109<br>130<br>157       | 83<br>113<br>140  | 58<br>96<br>124   | 58<br>51<br>42                  |  |
| VIRGINIA                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                 |  |
| BEDFORD                   | 36<br>32<br>28                | APR 11<br>APR 02<br>MAR 20 | APR 27<br>APR 15<br>APR 03 | MAY 14<br>APR 29<br>APR 16 | SEP 24<br>OCT 05<br>OCT 16 | OCT 09<br>OCT 21<br>NOV 02 | OCT 23<br>NOV 07<br>NOV 19 | 183<br>211<br>235       | 164<br>188<br>213 | 144<br>165<br>190 | 33<br>25<br>17                  |  |

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# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| VIRGINIA                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| BIG MEADOWS               | 36<br>32<br>28                | MAY 09<br>APR 19<br>APR 10 | MAY 23<br>MAY 10<br>APR 26 | JUN 05<br>MAY 30<br>MAY 12 | SEP 08<br>SEP 21<br>OCT 04 | SEP 25<br>OCT 04<br>OCT 18 | OCT 13<br>OCT 16<br>NOV 01 | 150<br>170<br>196       | 125<br>146<br>174 | 100<br>123<br>152 | 44<br>37<br>31                    |  |
| BLACKSBURG 3 SE           | 36<br>32<br>28                | APR 22<br>APR 14<br>APR 02 | MAY 14<br>MAY 03<br>APR 22 | JUN 04<br>MAY 21<br>MAY 13 | SEP 13<br>SEP 23<br>OCT 03 | SEP 28<br>OCT 06<br>OCT 17 | OCT 12<br>OCT 19<br>OCT 31 | 163<br>179<br>202       | 136<br>155<br>177 | 110<br>131<br>151 | 44<br>36<br>27                    |  |
| BUCHANAN                  | 36<br>32<br>28                | APR 20<br>APR 13<br>MAR 29 | MAY 05<br>APR 28<br>APR 12 | MAY 20<br>MAY 12<br>APR 27 | SEP 26<br>OCT 02<br>OCT 10 | OCT 07<br>OCT 15<br>OCT 25 | OCT 17<br>OCT 28<br>NOV 09 | 171<br>190<br>212       | 154<br>170<br>195 | 136<br>150<br>178 | 36<br>28<br>20                    |  |
| BURKES GARDEN             | 36<br>32<br>28                | MAY 10<br>MAY 01<br>APR 16 | JUN 02<br>MAY 17<br>MAY 02 | JUN 24<br>JUN 03<br>MAY 18 | AUG 29<br>SEP 15<br>SEP 22 | SEP 15<br>SEP 28<br>OCT 05 | OCT 02<br>OCT 11<br>OCT 19 | 130<br>153<br>172       | 104<br>133<br>155 | 79<br>113<br>138  | 46<br>38<br>30                    |  |
| CHARLOTTE COURT HOUSE     | 36<br>32<br>28                | APR 14<br>APR 03<br>MAR 20 | MAY 02<br>APR 20<br>APR 06 | MAY 21<br>MAY 06<br>APR 24 | SEP 29<br>OCT 05<br>OCT 13 | OCT 09<br>OCT 18<br>OCT 28 | OCT 18<br>OCT 31<br>NOV 11 | 181<br>200<br>226       | 159<br>181<br>204 | 137<br>162<br>181 | 37<br>29<br>21                    |  |
| CHARLOTTESVILLE 2 W       | 36<br>32<br>28                | APR 05<br>MAR 27<br>MAR 10 | APR 16<br>APR 07<br>MAR 24 | APR 27<br>APR 18<br>APR 07 | OCT 10<br>OCT 18<br>OCT 23 | OCT 24<br>NOV 04<br>NOV 09 | NOV 07<br>NOV 20<br>NOV 26 | 206<br>232<br>256       | 190<br>210<br>230 | 174<br>187<br>204 | 30<br>23<br>15                    |  |
| CHATHAM 2 NE              | 36<br>32<br>28                | APR 16<br>APR 07<br>MAR 25 | MAY 05<br>APR 24<br>APR 09 | MAY 24<br>MAY 10<br>APR 25 | SEP 24<br>OCT 01<br>OCT 10 | OCT 07<br>OCT 15<br>OCT 25 | OCT 20<br>OCT 30<br>NOV 09 | 179<br>198<br>221       | 154<br>174<br>198 | 129<br>150<br>174 | 37<br>29<br>20                    |  |
| COLUMBIA                  | 36<br>32<br>28                | APR 19<br>APR 10<br>MAR 27 | MAY 04<br>APR 24<br>APR 11 | MAY 19<br>MAY 09<br>APR 25 | SEP 25<br>OCT 02<br>OCT 10 | OCT 06<br>OCT 15<br>OCT 24 | OCT 18<br>OCT 27<br>NOV 06 | 174<br>194<br>212       | 154<br>173<br>195 | 135<br>151<br>179 | 38<br>31<br>23                    |  |
| CULPEPER                  | 36<br>32<br>28                | APR 21<br>APR 03<br>MAR 25 | MAY 04<br>APR 17<br>APR 06 | MAY 18<br>MAY 01<br>APR 19 | SEP 24<br>OCT 03<br>OCT 09 | OCT 09<br>OCT 16<br>OCT 28 | OCT 24<br>OCT 30<br>NOV 17 | 176<br>202<br>230       | 157<br>182<br>204 | 138<br>161<br>179 | 36<br>28<br>20                    |  |
| DALE ENTERPRISE           | 36<br>32<br>28                | APR 22<br>APR 13<br>APR 04 | MAY 10<br>MAY 01<br>APR 18 | MAY 28<br>MAY 18<br>MAY 01 | SEP 19<br>SEP 27<br>OCT 07 | OCT 01<br>OCT 11<br>OCT 23 | OCT 13<br>OCT 24<br>NOV 07 | 165<br>185<br>208       | 143<br>162<br>187 | 120<br>140<br>166 | 40<br>33<br>24                    |  |
| DANVILLE-BRIDGE ST        | 36<br>32<br>28                | APR 09<br>MAR 27<br>MAR 11 | APR 23<br>APR 13<br>APR 27 | MAY 08<br>MAY 01<br>APR 13 | OCT 03<br>OCT 12<br>OCT 27 | OCT 14<br>OCT 25<br>NOV 09 | OCT 24<br>NOV 08<br>NOV 21 | 191<br>214<br>247       | 173<br>195<br>225 | 155<br>175<br>204 | 33<br>25<br>17                    |  |
| DIAMOND SPRINGS           | 36<br>32<br>28                | MAR 26<br>MAR 13<br>FEB 25 | APR 11<br>MAR 25<br>MAR 12 | APR 26<br>APR 07<br>MAR 27 | OCT 22<br>OCT 29<br>NOV 15 | NOV 02<br>NOV 15<br>NOV 30 | NOV 14<br>DEC 02<br>DEC 15 | 224<br>252<br>286       | 205<br>234<br>262 | 185<br>216<br>238 | 23<br>16<br>9                     |  |
| ELKWOOD 6 SE              | 36<br>32<br>28                | APR 23<br>APR 11<br>APR 01 | MAY 08<br>MAY 28<br>APR 15 | MAY 24<br>MAY 15<br>APR 29 | SEP 20<br>SEP 29<br>OCT 05 | OCT 02<br>OCT 11<br>OCT 21 | OCT 14<br>OCT 22<br>NOV 07 | 164<br>186<br>212       | 146<br>165<br>189 | 129<br>145<br>165 | 38<br>31<br>22                    |  |
| FARMVILLE 2 N             | 36<br>32<br>28                | APR 21<br>APR 11<br>MAR 31 | MAY 06<br>APR 26<br>APR 14 | MAY 20<br>MAY 10<br>APR 28 | SEP 21<br>SEP 28<br>OCT 09 | OCT 03<br>OCT 10<br>OCT 21 | OCT 15<br>OCT 23<br>NOV 01 | 167<br>188<br>207       | 150<br>167<br>189 | 133<br>146<br>172 | 36<br>29<br>21                    |  |
| FLOYD 2 NE                | 36<br>32<br>28                | APR 26<br>APR 19<br>APR 12 | MAY 25<br>MAY 11<br>APR 27 | JUN 23<br>JUN 02<br>MAY 12 | SEP 01<br>SEP 18<br>SEP 25 | SEP 19<br>OCT 02<br>OCT 11 | OCT 07<br>OCT 15<br>OCT 27 | 154<br>171<br>192       | 116<br>143<br>166 | 78<br>116<br>141  | 43<br>36<br>27                    |  |
| FREDERICKSBURG NATL PK    | 36<br>32<br>28                | APR 21<br>APR 09<br>MAR 25 | MAY 03<br>APR 21<br>APR 09 | MAY 14<br>MAY 04<br>APR 23 | SEP 23<br>OCT 02<br>OCT 12 | OCT 07<br>OCT 15<br>OCT 26 | OCT 20<br>OCT 27<br>NOV 08 | 176<br>195<br>222       | 156<br>175<br>199 | 136<br>156<br>176 | 38<br>31<br>22                    |  |
| HOLLAND 1 E               | 36<br>32<br>28                | APR 13<br>MAR 31<br>MAR 13 | APR 27<br>APR 14<br>MAR 27 | MAY 11<br>APR 28<br>APR 11 | OCT 04<br>OCT 11<br>OCT 22 | OCT 14<br>OCT 24<br>NOV 08 | OCT 24<br>NOV 06<br>NOV 24 | 187<br>209<br>247       | 170<br>192<br>224 | 152<br>176<br>202 | 30<br>23<br>15                    |  |

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# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                   |  |
| VIRGINIA                  |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                   |  |
| HOPEWELL                  | 36<br>32<br>28                | APR 07<br>MAR 24<br>MAR 08 | APR 20<br>APR 08<br>MAR 22 | MAY 03<br>APR 24<br>APR 05 | OCT 08<br>OCT 18<br>OCT 25 | OCT 20<br>OCT 29<br>NOV 07 | NOV 01<br>NOV 09<br>NOV 20 | 197<br>221<br>248          | 182<br>203<br>229 | 167<br>185<br>211 | 28<br>20<br>13                    |  |
| HOT SPRINGS               | 36<br>32<br>28                | APR 27<br>APR 17<br>APR 06 | MAY 15<br>MAY 02<br>APR 19 | JUN 02<br>MAY 16<br>MAY 02 | SEP 16<br>SEP 25<br>OCT 06 | SEP 29<br>OCT 09<br>OCT 21 | OCT 12<br>OCT 23<br>NOV 06 | 157<br>179<br>204          | 136<br>160<br>184 | 116<br>141<br>164 | 43<br>35<br>27                    |  |
| JOHN H KERR DAM           | 36<br>32<br>28                | APR 15<br>MAR 31<br>MAR 14 | APR 29<br>APR 17<br>APR 01 | MAY 12<br>MAY 04<br>APR 19 | SEP 28<br>OCT 06<br>OCT 14 | OCT 11<br>OCT 21<br>OCT 30 | OCT 23<br>NOV 05<br>NOV 16 | 182<br>208<br>237          | 164<br>186<br>212 | 146<br>165<br>186 | 33<br>26<br>18                    |  |
| LANGLEY AIR FORCE BASE    | 36<br>32<br>28                | MAR 23<br>MAR 07<br>FEB 18 | APR 08<br>MAR 24<br>MAR 07 | APR 25<br>APR 10<br>MAR 25 | OCT 15<br>NOV 02<br>NOV 11 | NOV 01<br>NOV 17<br>NOV 29 | NOV 18<br>DEC 01<br>DEC 17 | 229<br>263<br>294          | 206<br>237<br>266 | 183<br>211<br>238 | 22<br>15<br>9                     |  |
| LAWRENCEVILLE 5 W         | 36<br>32<br>28                | APR 18<br>APR 09<br>MAR 24 | MAY 05<br>APR 25<br>APR 09 | MAY 21<br>MAY 11<br>APR 25 | SEP 28<br>OCT 06<br>OCT 15 | OCT 09<br>OCT 19<br>OCT 27 | OCT 21<br>NOV 02<br>NOV 07 | 179<br>197<br>218          | 157<br>177<br>200 | 135<br>157<br>182 | 33<br>25<br>18                    |  |
| LEXINGTON                 | 36<br>32<br>28                | APR 20<br>APR 12<br>MAR 25 | MAY 08<br>APR 28<br>APR 12 | MAY 26<br>MAY 14<br>APR 30 | SEP 23<br>OCT 01<br>OCT 09 | OCT 04<br>OCT 13<br>OCT 24 | OCT 16<br>OCT 25<br>NOV 07 | 170<br>187<br>215          | 148<br>167<br>194 | 127<br>148<br>173 | 38<br>30<br>22                    |  |
| LINCOLN                   | 36<br>32<br>28                | APR 16<br>APR 02<br>MAR 21 | APR 30<br>APR 17<br>APR 04 | MAY 14<br>MAY 02<br>APR 17 | SEP 27<br>OCT 01<br>OCT 20 | OCT 11<br>OCT 20<br>NOV 03 | OCT 24<br>NOV 07<br>NOV 17 | 184<br>211<br>231          | 163<br>185<br>213 | 143<br>158<br>194 | 36<br>29<br>19                    |  |
| LOUISA                    | 36<br>32<br>28                | APR 19<br>APR 07<br>MAR 23 | MAY 03<br>APR 22<br>APR 08 | MAY 18<br>MAY 07<br>APR 23 | SEP 26<br>OCT 01<br>OCT 08 | OCT 06<br>OCT 16<br>OCT 26 | OCT 16<br>OCT 30<br>NOV 14 | 175<br>198<br>229          | 155<br>176<br>201 | 135<br>154<br>173 | 35<br>27<br>19                    |  |
| LURAY 5 E                 | 36<br>32<br>28                | APR 30<br>APR 20<br>APR 05 | MAY 17<br>MAY 07<br>APR 21 | JUN 02<br>MAY 25<br>MAY 07 | SEP 15<br>SEP 25<br>OCT 05 | SEP 29<br>OCT 08<br>OCT 19 | OCT 13<br>OCT 21<br>NOV 01 | 156<br>174<br>204          | 135<br>153<br>180 | 113<br>132<br>156 | 43<br>36<br>27                    |  |
| LYNCHBURG WSO             | 36<br>32<br>28                | APR 09<br>MAR 27<br>MAR 12 | APR 25<br>APR 13<br>MAR 28 | MAY 11<br>MAY 01<br>APR 12 | OCT 02<br>OCT 10<br>OCT 19 | OCT 14<br>OCT 23<br>NOV 04 | OCT 25<br>NOV 06<br>NOV 21 | 192<br>215<br>246          | 171<br>192<br>221 | 150<br>170<br>195 | 33<br>25<br>17                    |  |
| MARTINSVILLE FILTER PL    | 36<br>32<br>28                | APR 24<br>APR 19<br>APR 02 | MAY 12<br>MAY 03<br>APR 17 | MAY 30<br>MAY 17<br>MAY 02 | SEP 18<br>OCT 01<br>OCT 06 | OCT 01<br>OCT 09<br>OCT 20 | OCT 14<br>OCT 18<br>NOV 03 | 165<br>173<br>206          | 142<br>158<br>186 | 118<br>143<br>166 | 40<br>32<br>24                    |  |
| MOUNT WEATHER             | 36<br>32<br>28                | APR 15<br>APR 07<br>MAR 31 | MAY 01<br>APR 24<br>APR 11 | MAY 17<br>MAY 11<br>APR 22 | SEP 28<br>OCT 05<br>OCT 15 | OCT 11<br>OCT 21<br>OCT 31 | OCT 24<br>NOV 06<br>NOV 16 | 183<br>204<br>223          | 162<br>179<br>203 | 141<br>155<br>182 | 39<br>32<br>25                    |  |
| NORFOLK WSO               | 36<br>32<br>28                | MAR 22<br>MAR 08<br>FEB 16 | APR 07<br>MAR 23<br>MAR 06 | APR 23<br>APR 06<br>MAR 24 | OCT 20<br>OCT 31<br>NOV 15 | NOV 04<br>NOV 17<br>DEC 01 | NOV 20<br>DEC 04<br>DEC 17 | 235<br>261<br>296          | 210<br>239<br>270 | 185<br>216<br>243 | 22<br>15<br>9                     |  |
| PAINTER 2 W               | 36<br>32<br>28                | APR 11<br>MAR 27<br>MAR 12 | APR 28<br>APR 13<br>MAR 30 | MAY 14<br>MAY 29<br>APR 17 | OCT 04<br>OCT 16<br>OCT 24 | OCT 19<br>OCT 29<br>NOV 11 | NOV 03<br>NOV 11<br>NOV 28 | 199<br>218<br>253          | 174<br>198<br>224 | 149<br>178<br>196 | 28<br>21<br>14                    |  |
| PENNINGTON GAP            | 36<br>32<br>28                | APR 26<br>APR 16<br>APR 02 | MAY 12<br>MAY 02<br>APR 18 | MAY 28<br>MAY 18<br>MAY 04 | SEP 20<br>SEP 29<br>OCT 08 | OCT 02<br>OCT 10<br>OCT 21 | OCT 14<br>OCT 22<br>NOV 03 | 161<br>179<br>203          | 142<br>160<br>186 | 122<br>142<br>168 | 40<br>32<br>24                    |  |
| PIEDMONT RESEARCH STA     | 36<br>32<br>28                | APR 15<br>APR 02<br>MAR 24 | MAY 02<br>APR 18<br>APR 06 | MAY 18<br>MAY 04<br>APR 19 | SEP 29<br>OCT 08<br>OCT 19 | OCT 11<br>OCT 22<br>NOV 02 | OCT 23<br>NOV 04<br>NOV 16 | 182<br>207<br>230          | 162<br>186<br>210 | 142<br>166<br>189 | 36<br>29<br>21                    |  |
| RICHMOND WSO              | 36<br>32<br>28                | APR 10<br>MAR 25<br>MAR 15 | APR 24<br>APR 10<br>MAR 30 | MAY 07<br>APR 27<br>APR 14 | OCT 02<br>OCT 13<br>OCT 21 | OCT 15<br>OCT 26<br>NOV 06 | OCT 27<br>NOV 07<br>NOV 23 | 194<br>217<br>245          | 173<br>198<br>221 | 153<br>178<br>196 | 32<br>24<br>17                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| VIRGINIA                  |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| STAUNTON SEWAGE PLANT     | 36<br>32<br>28                | APR 14<br>APR 09<br>MAR 30 | MAY 06<br>MAY 26<br>APR 17 | MAY 28<br>MAY 12<br>MAY 06 | SEP 22<br>SEP 30<br>OCT 09 | OCT 03<br>OCT 14<br>OCT 25 | OCT 15<br>OCT 28<br>NOV 10 | 177<br>194<br>216       | 149<br>171<br>190 | 121<br>148<br>163 | 41<br>33<br>25                    |  |
| SUFFOLK LAKE KILBY        | 36<br>32<br>28                | APR 04<br>MAR 21<br>MAR 06 | APR 17<br>APR 05<br>MAR 18 | MAY 01<br>APR 20<br>MAR 30 | OCT 09<br>OCT 20<br>OCT 31 | OCT 24<br>NOV 03<br>NOV 18 | NOV 08<br>NOV 18<br>DEC 06 | 209<br>234<br>268       | 189<br>211<br>244 | 169<br>189<br>221 | 28<br>21<br>13                    |  |
| TIMBERVILLE 3 E           | 36<br>32<br>28                | APR 25<br>APR 16<br>APR 05 | MAY 12<br>MAY 03<br>APR 19 | MAY 28<br>MAY 21<br>MAY 03 | SEP 17<br>SEP 26<br>OCT 05 | SEP 30<br>OCT 10<br>OCT 20 | OCT 12<br>OCT 24<br>NOV 03 | 160<br>182<br>200       | 140<br>159<br>183 | 120<br>137<br>165 | 41<br>33<br>24                    |  |
| WALKERTON 2 NW            | 36<br>32<br>28                | APR 19<br>APR 08<br>MAR 21 | MAY 02<br>APR 20<br>APR 07 | MAY 15<br>MAY 03<br>APR 23 | SEP 27<br>OCT 05<br>OCT 16 | OCT 10<br>OCT 17<br>OCT 27 | OCT 24<br>OCT 29<br>NOV 08 | 180<br>197<br>224       | 161<br>179<br>203 | 141<br>160<br>181 | 34<br>27<br>19                    |  |
| WARRENTON 3 SE            | 36<br>32<br>28                | APR 14<br>APR 04<br>MAR 24 | APR 29<br>APR 14<br>APR 06 | MAY 14<br>APR 25<br>APR 18 | SEP 30<br>OCT 14<br>OCT 23 | OCT 14<br>OCT 28<br>NOV 06 | OCT 28<br>NOV 11<br>NOV 20 | 188<br>212<br>235       | 167<br>196<br>214 | 146<br>180<br>193 | 37<br>29<br>21                    |  |
| WARSAW 2 NW               | 36<br>32<br>28                | APR 17<br>APR 03<br>MAR 17 | APR 30<br>APR 15<br>APR 02 | MAY 12<br>APR 27<br>APR 19 | OCT 01<br>OCT 07<br>OCT 21 | OCT 12<br>OCT 22<br>NOV 05 | OCT 24<br>NOV 06<br>NOV 21 | 181<br>207<br>240       | 165<br>190<br>217 | 149<br>172<br>193 | 32<br>24<br>16                    |  |
| WILLIAMSBURG 2 N          | 36<br>32<br>28                | APR 10<br>MAR 28<br>MAR 15 | APR 24<br>APR 14<br>MAR 29 | MAY 09<br>MAY 01<br>APR 13 | OCT 06<br>OCT 15<br>OCT 30 | OCT 19<br>OCT 28<br>NOV 12 | NOV 01<br>NOV 11<br>NOV 26 | 196<br>217<br>248       | 177<br>197<br>228 | 157<br>177<br>207 | 30<br>23<br>15                    |  |
| WINCHESTER 1 N            | 36<br>32<br>28                | APR 15<br>APR 05<br>MAR 25 | MAY 03<br>APR 19<br>APR 08 | MAY 20<br>MAY 03<br>APR 22 | SEP 22<br>OCT 01<br>OCT 16 | OCT 07<br>OCT 17<br>OCT 30 | OCT 22<br>NOV 02<br>NOV 13 | 182<br>204<br>224       | 157<br>181<br>204 | 131<br>157<br>185 | 37<br>29<br>20                    |  |
| WOODSTOCK                 | 36<br>32<br>28                | APR 23<br>APR 10<br>MAR 31 | MAY 07<br>APR 27<br>APR 13 | MAY 21<br>MAY 14<br>APR 26 | SEP 19<br>SEP 27<br>OCT 07 | OCT 01<br>OCT 12<br>OCT 23 | OCT 13<br>OCT 27<br>NOV 09 | 165<br>192<br>213       | 146<br>167<br>193 | 127<br>142<br>172 | 39<br>31<br>22                    |  |
| WYTHEVILLE 1 S            | 36<br>32<br>28                | MAY 01<br>APR 15<br>APR 09 | MAY 18<br>MAY 05<br>APR 26 | JUN 05<br>MAY 24<br>MAY 13 | SEP 09<br>SEP 20<br>SEP 29 | SEP 25<br>OCT 03<br>OCT 14 | OCT 11<br>OCT 17<br>OCT 29 | 154<br>176<br>194       | 129<br>151<br>170 | 104<br>125<br>147 | 42<br>35<br>26                    |  |
| WASHINGTON                |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ABERDEEN                  | 36<br>32<br>28                | APR 19<br>MAR 22<br>JAN 08 | MAY 08<br>APR 10<br>FEB 24 | MAY 27<br>APR 30<br>APR 01 | SEP 28<br>OCT 21<br>NOV 08 | OCT 20<br>NOV 12<br>DEC 15 | NOV 11<br>DEC 03<br>FEB 01 | 196<br>245<br>>365      | 165<br>215<br>292 | 133<br>184<br>248 | 26<br>13<br>4                     |  |
| ANACORTES                 | 36<br>32<br>28                | APR 05<br>FEB 25<br>JAN 13 | APR 23<br>MAR 22<br>FEB 19 | MAY 11<br>APR 16<br>MAR 29 | OCT 09<br>OCT 19<br>NOV 02 | OCT 25<br>NOV 12<br>DEC 05 | NOV 11<br>DEC 05<br>JAN 03 | 207<br>261<br>318       | 184<br>230<br>283 | 162<br>202<br>251 | 22<br>10<br>4                     |  |
| BATTLE GROUND             | 36<br>32<br>28                | MAY 08<br>APR 12<br>MAR 04 | MAY 29<br>MAY 02<br>MAR 29 | JUN 19<br>MAY 21<br>APR 23 | SEP 06<br>SEP 23<br>OCT 17 | SEP 27<br>OCT 12<br>NOV 09 | OCT 19<br>OCT 31<br>DEC 02 | 153<br>188<br>260       | 121<br>162<br>224 | 89<br>136<br>188  | 33<br>20<br>9                     |  |
| BELLINGHAM 2 N            | 36<br>32<br>28                | MAY 06<br>APR 15<br>MAR 17 | MAY 26<br>MAY 04<br>APR 08 | JUN 15<br>MAY 22<br>APR 30 | SEP 04<br>SEP 18<br>OCT 14 | SEP 24<br>OCT 09<br>NOV 01 | OCT 14<br>OCT 29<br>NOV 20 | 151<br>183<br>238       | 120<br>158<br>207 | 89<br>132<br>175  | 33<br>21<br>11                    |  |
| BELLINGHAM FAA AIRPORT    | 36<br>32<br>28                | APR 24<br>APR 05<br>FEB 24 | MAY 11<br>APR 21<br>MAR 21 | MAY 27<br>MAY 06<br>APR 15 | SEP 17<br>OCT 01<br>OCT 20 | OCT 04<br>OCT 20<br>NOV 09 | OCT 21<br>NOV 09<br>NOV 29 | 171<br>205<br>267       | 146<br>182<br>232 | 121<br>159<br>197 | 30<br>19<br>10                    |  |
| BICKLETON                 | 36<br>32<br>28                | JUN 04<br>MAY 06<br>APR 21 | JUN 23<br>MAY 30<br>MAY 11 | JUL 12<br>JUN 23<br>MAY 30 | AUG 30<br>SEP 18<br>OCT 05 | SEP 17<br>OCT 05<br>OCT 22 | OCT 05<br>OCT 22<br>NOV 08 | 113<br>158<br>185       | 85<br>127<br>164  | 57<br>97<br>142   | 53<br>40<br>27                    |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                   |  |
| WASHINGTON                |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                   |  |
| BLAINE 1 ENE              | 36<br>32<br>28                | APR 29<br>APR 12<br>MAR 06 | MAY 14<br>MAY 26<br>MAR 27 | MAY 29<br>MAY 10<br>APR 16 | SEP 18<br>SEP 28<br>OCT 19 | OCT 03<br>OCT 16<br>NOV 13 | OCT 19<br>NOV 04<br>DEC 08 | 163<br>195<br>269          | 142<br>173<br>230 | 120<br>150<br>192 | 31<br>19<br>9                     |  |
| BUCKLEY 1 NE              | 36<br>32<br>28                | APR 28<br>APR 10<br>MAR 03 | MAY 17<br>MAY 27<br>MAR 26 | JUN 04<br>MAY 14<br>APR 18 | SEP 16<br>OCT 07<br>OCT 23 | OCT 03<br>OCT 23<br>NOV 14 | OCT 20<br>NOV 09<br>DEC 05 | 165<br>198<br>268          | 138<br>178<br>232 | 112<br>159<br>196 | 32<br>18<br>8                     |  |
| CEDAR LAKE                | 36<br>32<br>28                | MAY 04<br>APR 12<br>MAR 08 | MAY 22<br>MAY 02<br>APR 01 | JUN 09<br>MAY 21<br>APR 24 | SEP 18<br>OCT 08<br>OCT 31 | OCT 04<br>OCT 26<br>NOV 21 | OCT 21<br>NOV 13<br>DEC 12 | 163<br>202<br>265          | 135<br>177<br>233 | 106<br>151<br>202 | 41<br>25<br>10                    |  |
| CENTRALIA                 | 36<br>32<br>28                | MAY 03<br>APR 13<br>FEB 25 | MAY 19<br>APR 30<br>MAR 25 | JUN 04<br>MAY 16<br>APR 22 | SEP 21<br>OCT 04<br>OCT 23 | OCT 07<br>OCT 25<br>NOV 17 | OCT 24<br>NOV 15<br>DEC 13 | 163<br>205<br>270          | 141<br>177<br>237 | 118<br>150<br>203 | 28<br>16<br>7                     |  |
| CHELAN                    | 36<br>32<br>28                | APR 17<br>APR 02<br>MAR 08 | MAY 03<br>APR 16<br>MAR 24 | MAY 20<br>APR 30<br>APR 10 | SEP 28<br>OCT 13<br>OCT 26 | OCT 09<br>OCT 23<br>NOV 10 | OCT 20<br>NOV 03<br>NOV 25 | 179<br>205<br>250          | 158<br>190<br>230 | 138<br>175<br>210 | 44<br>33<br>21                    |  |
| CHEWELAH 4 SSN            | 36<br>32<br>28                | JUN 19<br>MAY 05<br>APR 10 | JUL 08<br>JUN 03<br>MAY 03 | JUL 28<br>JUL 01<br>MAY 26 | AUG 07<br>AUG 22<br>SEP 04 | AUG 24<br>SEP 06<br>SEP 19 | SEP 11<br>SEP 21<br>OCT 05 | 76<br>130<br>166           | 46<br>95<br>139   | 16<br>59<br>111   | 61<br>49<br>34                    |  |
| CHIEF JOSEPH DAM          | 36<br>32<br>28                | APR 26<br>APR 07<br>MAR 14 | MAY 14<br>APR 25<br>APR 04 | JUN 01<br>MAY 12<br>APR 26 | SEP 12<br>SEP 27<br>OCT 12 | SEP 29<br>OCT 12<br>OCT 28 | OCT 16<br>NOV 15<br>NOV 14 | 163<br>193<br>235          | 137<br>170<br>207 | 111<br>146<br>178 | 46<br>35<br>24                    |  |
| CLEARBROOK                | 36<br>32<br>28                | MAY 05<br>APR 14<br>MAR 06 | MAY 21<br>MAY 03<br>APR 02 | JUN 07<br>MAY 22<br>APR 29 | AUG 31<br>SEP 22<br>OCT 12 | SEP 22<br>OCT 12<br>NOV 03 | OCT 13<br>NOV 02<br>NOV 25 | 148<br>188<br>247          | 123<br>162<br>214 | 98<br>135<br>181  | 35<br>21<br>10                    |  |
| CLEARWATER                | 36<br>32<br>28                | MAY 19<br>APR 16<br>FEB 24 | JUN 07<br>MAY 07<br>MAR 23 | JUN 26<br>MAY 28<br>APR 19 | SEP 01<br>SEP 20<br>OCT 15 | SEP 25<br>OCT 15<br>NOV 15 | OCT 19<br>NOV 08<br>DEC 16 | 144<br>195<br>280          | 109<br>160<br>236 | 74<br>125<br>192  | 33<br>19<br>7                     |  |
| CLE ELUM                  | 36<br>32<br>28                | MAY 24<br>MAY 05<br>APR 14 | JUN 15<br>MAY 26<br>MAY 04 | JUL 07<br>JUN 16<br>MAY 24 | AUG 21<br>AUG 29<br>SEP 08 | SEP 03<br>SEP 13<br>SEP 26 | SEP 16<br>SEP 27<br>OCT 14 | 107<br>136<br>173          | 80<br>109<br>144  | 52<br>82<br>116   | 58<br>46<br>30                    |  |
| COLFAX 1 NW               | 36<br>32<br>28                | MAY 11<br>APR 25<br>MAR 27 | JUN 08<br>MAY 14<br>APR 22 | JUL 07<br>JUN 02<br>MAY 17 | AUG 18<br>SEP 08<br>SEP 17 | SEP 03<br>SEP 24<br>OCT 06 | SEP 20<br>OCT 09<br>OCT 25 | 124<br>159<br>199          | 87<br>132<br>167  | 50<br>105<br>135  | 51<br>37<br>23                    |  |
| COLVILLE AP               | 36<br>32<br>28                | MAY 12<br>APR 27<br>APR 16 | JUN 08<br>MAY 17<br>APR 29 | JUL 04<br>JUN 07<br>MAY 12 | AUG 28<br>SEP 07<br>SEP 17 | SEP 11<br>SEP 22<br>OCT 03 | SEP 24<br>OCT 07<br>OCT 20 | 122<br>151<br>180          | 94<br>127<br>157  | 67<br>102<br>134  | 56<br>44<br>31                    |  |
| CONCRETE                  | 36<br>32<br>28                | APR 21<br>MAR 26<br>FEB 08 | MAY 05<br>APR 14<br>MAR 09 | MAY 19<br>MAY 02<br>APR 03 | OCT 04<br>OCT 18<br>NOV 06 | OCT 20<br>NOV 07<br>DEC 04 | NOV 06<br>NOV 27<br>JAN 05 | 188<br>235<br>318          | 167<br>207<br>271 | 147<br>179<br>234 | 32<br>17<br>6                     |  |
| COULEE DAM 1 SW           | 36<br>32<br>28                | APR 25<br>APR 05<br>MAR 20 | MAY 10<br>MAY 22<br>APR 22 | MAY 25<br>MAY 09<br>APR 23 | SEP 22<br>OCT 04<br>OCT 24 | OCT 06<br>OCT 19<br>NOV 06 | OCT 20<br>NOV 04<br>NOV 18 | 169<br>204<br>237          | 148<br>179<br>213 | 126<br>155<br>189 | 44<br>33<br>22                    |  |
| COUPEVILLE 1 S            | 36<br>32<br>28                | APR 26<br>MAR 29<br>FEB 12 | MAY 14<br>APR 15<br>MAR 17 | JUN 02<br>MAY 02<br>APR 18 | SEP 15<br>OCT 10<br>OCT 25 | OCT 04<br>OCT 28<br>NOV 16 | OCT 23<br>NOV 14<br>DEC 08 | 168<br>219<br>280          | 142<br>195<br>240 | 115<br>171<br>203 | 27<br>14<br>6                     |  |
| DALLESPORT FAA AIRPORT    | 36<br>32<br>28                | APR 17<br>APR 01<br>MAR 05 | MAY 03<br>APR 16<br>MAR 29 | MAY 19<br>MAY 02<br>APR 22 | SEP 25<br>OCT 04<br>OCT 20 | OCT 09<br>OCT 21<br>NOV 08 | OCT 23<br>NOV 06<br>NOV 26 | 181<br>212<br>254          | 158<br>187<br>223 | 136<br>161<br>192 | 34<br>22<br>12                    |  |
| DAVENPORT                 | 36<br>32<br>28                | MAY 25<br>MAY 07<br>APR 11 | JUN 23<br>MAY 26<br>MAY 04 | JUL 21<br>JUN 15<br>MAY 26 | AUG 19<br>SEP 06<br>SEP 21 | SEP 06<br>SEP 22<br>OCT 08 | SEP 24<br>OCT 08<br>OCT 25 | 111<br>143<br>183          | 75<br>118<br>157  | 38<br>92<br>131   | 56<br>45<br>30                    |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY * (4) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| WASHINGTON                |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| DAYTON 1 WSW              | 36<br>32<br>28                | MAY 03<br>APR 10<br>MAR 20 | MAY 22<br>MAY 04<br>APR 13 | JUN 11<br>MAY 28<br>MAY 06 | SEP 04<br>SEP 16<br>OCT 07 | SEP 24<br>OCT 03<br>OCT 24 | OCT 13<br>OCT 21<br>NOV 10 | 154<br>185<br>223       | 124<br>152<br>194 | 93<br>118<br>165  | 42<br>29<br>17                    |  |
| DIABLO DAM                | 36<br>32<br>28                | APR 24<br>APR 07<br>FEB 16 | MAY 14<br>APR 21<br>MAR 13 | JUN 02<br>MAY 05<br>APR 08 | SEP 30<br>OCT 16<br>OCT 31 | OCT 16<br>OCT 31<br>NOV 24 | NOV 02<br>NOV 14<br>DEC 19 | 181<br>215<br>288       | 155<br>192<br>255 | 129<br>169<br>222 | 43<br>26<br>10                    |  |
| ELECTRON HEADWORKS        | 36<br>32<br>28                | MAY 28<br>MAY 07<br>APR 03 | JUN 25<br>MAY 25<br>APR 28 | JUL 23<br>JUN 13<br>MAY 23 | AUG 15<br>SEP 02<br>SEP 29 | AUG 31<br>SEP 24<br>OCT 19 | SEP 16<br>OCT 16<br>NOV 09 | 103<br>151<br>207       | 66<br>121<br>173  | 29<br>91<br>140   | 50<br>35<br>15                    |  |
| ELMA                      | 36<br>32<br>28                | MAY 11<br>APR 19<br>MAR 05 | MAY 28<br>MAY 07<br>MAR 31 | JUN 13<br>MAY 26<br>APR 26 | SEP 05<br>SEP 23<br>OCT 15 | SEP 28<br>OCT 17<br>NOV 16 | OCT 21<br>NOV 10<br>DEC 18 | 151<br>191<br>268       | 123<br>162<br>229 | 94<br>133<br>191  | 31<br>18<br>7                     |  |
| ELWHA RANGER STATION      | 36<br>32<br>28                | APR 29<br>APR 04<br>FEB 09 | MAY 20<br>APR 25<br>MAR 09 | JUN 10<br>MAY 16<br>APR 05 | SEP 28<br>OCT 18<br>NOV 04 | OCT 15<br>NOV 05<br>NOV 28 | OCT 31<br>NOV 22<br>DEC 23 | 173<br>222<br>301       | 147<br>193<br>264 | 121<br>165<br>227 | 39<br>21<br>6                     |  |
| EPHRATA FAA AIRPORT       | 36<br>32<br>28                | APR 20<br>APR 02<br>MAR 18 | MAY 06<br>APR 21<br>APR 06 | MAY 22<br>MAY 10<br>APR 25 | SEP 17<br>OCT 11<br>OCT 19 | OCT 04<br>OCT 21<br>NOV 02 | OCT 21<br>OCT 31<br>NOV 16 | 175<br>204<br>232       | 150<br>182<br>209 | 126<br>160<br>186 | 42<br>33<br>22                    |  |
| EVERETT                   | 36<br>32<br>28                | APR 10<br>MAR 19<br>FEB 08 | MAY 02<br>APR 09<br>MAR 11 | MAY 23<br>APR 30<br>APR 10 | SEP 22<br>OCT 06<br>OCT 23 | OCT 11<br>OCT 28<br>NOV 21 | OCT 30<br>NOV 18<br>DEC 20 | 190<br>234<br>294       | 162<br>201<br>255 | 133<br>168<br>215 | 27<br>15<br>6                     |  |
| FORKS 1 E                 | 36<br>32<br>28                | MAY 12<br>APR 25<br>MAR 02 | MAY 31<br>MAY 12<br>MAR 30 | JUN 19<br>MAY 28<br>APR 27 | SEP 06<br>OCT 01<br>OCT 22 | SEP 26<br>OCT 20<br>NOV 17 | OCT 16<br>NOV 09<br>DEC 14 | 145<br>189<br>272       | 117<br>161<br>231 | 89<br>133<br>191  | 33<br>20<br>7                     |  |
| GLENOMA 1 W               | 36<br>32<br>28                | MAY 13<br>APR 21<br>MAR 28 | JUN 03<br>MAY 11<br>APR 16 | JUN 23<br>MAY 30<br>MAY 06 | AUG 19<br>SEP 12<br>OCT 04 | SEP 16<br>OCT 04<br>OCT 27 | OCT 14<br>OCT 25<br>NOV 18 | 143<br>175<br>225       | 104<br>145<br>193 | 65<br>115<br>160  | 41<br>25<br>11                    |  |
| GRAPEVIEW 3 SW            | 36<br>32<br>28                | APR 18<br>MAR 23<br>JAN 11 | MAY 09<br>APR 13<br>FEB 20 | MAY 29<br>MAY 03<br>MAR 27 | OCT 01<br>OCT 19<br>OCT 31 | OCT 21<br>NOV 10<br>DEC 08 | NOV 10<br>DEC 01<br>JAN 20 | 198<br>243<br>>365      | 165<br>210<br>288 | 132<br>177<br>241 | 24<br>12<br>3                     |  |
| HATTON 9 ESE              | 36<br>32<br>28                | MAY 13<br>APR 27<br>APR 05 | JUN 06<br>MAY 21<br>APR 26 | JUN 30<br>JUN 14<br>MAY 17 | AUG 28<br>SEP 09<br>SEP 19 | SEP 15<br>SEP 26<br>OCT 09 | OCT 02<br>OCT 12<br>OCT 29 | 125<br>153<br>194       | 100<br>127<br>165 | 75<br>100<br>137  | 49<br>37<br>23                    |  |
| HOQUIAM FAA AIRPORT       | 36<br>32<br>28                | APR 10<br>MAR 14<br>JAN 04 | MAY 08<br>APR 07<br>FEB 21 | JUN 04<br>MAY 02<br>APR 05 | OCT 01<br>OCT 20<br>NOV 12 | OCT 23<br>NOV 13<br>DEC 14 | NOV 13<br>DEC 06<br>JAN 18 | 206<br>257<br>>365      | 167<br>218<br>295 | 128<br>180<br>239 | 22<br>10<br>3                     |  |
| KENNEWICK                 | 36<br>32<br>28                | APR 14<br>MAR 29<br>MAR 08 | MAY 01<br>APR 16<br>MAR 30 | MAY 17<br>MAY 04<br>APR 21 | SEP 20<br>SEP 29<br>OCT 15 | OCT 05<br>OCT 17<br>NOV 01 | OCT 21<br>NOV 05<br>NOV 18 | 181<br>209<br>244       | 157<br>184<br>216 | 133<br>159<br>188 | 34<br>24<br>15                    |  |
| KENT                      | 36<br>32<br>28                | APR 30<br>APR 05<br>MAR 03 | MAY 16<br>APR 25<br>MAR 26 | JUN 01<br>MAY 14<br>APR 18 | SEP 05<br>SEP 30<br>OCT 17 | SEP 28<br>OCT 18<br>NOV 07 | OCT 20<br>NOV 05<br>NOV 27 | 159<br>203<br>250       | 134<br>175<br>225 | 108<br>148<br>201 | 29<br>17<br>7                     |  |
| KID VALLEY                | 36<br>32<br>28                | MAY 12<br>APR 18<br>MAR 10 | JUN 03<br>MAY 08<br>APR 09 | JUN 24<br>MAY 27<br>MAY 10 | AUG 29<br>SEP 21<br>OCT 14 | SEP 22<br>OCT 11<br>NOV 03 | OCT 16<br>OCT 31<br>NOV 23 | 142<br>186<br>248       | 111<br>155<br>207 | 79<br>125<br>166  | 39<br>24<br>11                    |  |
| LACROSSE 3 ESE            | 36<br>32<br>28                | MAY 25<br>MAY 04<br>APR 14 | JUN 20<br>MAY 29<br>MAY 07 | JUL 16<br>JUN 24<br>MAY 29 | AUG 17<br>AUG 31<br>SEP 14 | SEP 06<br>SEP 20<br>SEP 30 | SEP 25<br>OCT 09<br>OCT 15 | 113<br>147<br>172       | 77<br>113<br>146  | 41<br>79<br>119   | 48<br>35<br>22                    |  |
| LANDSBURG                 | 36<br>32<br>28                | MAY 06<br>APR 07<br>MAR 07 | JUN 01<br>MAY 05<br>APR 07 | JUN 27<br>MAY 23<br>MAY 07 | AUG 29<br>SEP 23<br>OCT 13 | SEP 21<br>OCT 11<br>NOV 05 | OCT 13<br>OCT 29<br>NOV 28 | 147<br>200<br>255       | 111<br>159<br>211 | 75<br>118<br>168  | 40<br>24<br>10                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| WASHINGTON                |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| LAURIER                   | 36                            | MAY 22                  | JUN 15 | JUL 09 | AUG 25                  | SEP 08 | SEP 22 | 116                     | 85  | 54  | 58                                |  |
|                           | 32                            | MAY 03                  | MAY 24 | JUN 13 | SEP 04                  | SEP 19 | OCT 03 | 145                     | 117 | 89  | 49                                |  |
|                           | 28                            | APR 19                  | MAY 04 | MAY 20 | SEP 14                  | OCT 03 | OCT 21 | 179                     | 151 | 122 | 35                                |  |
| LONGVIEW                  | 36                            | APR 30                  | MAY 17 | JUN 03 | SEP 29                  | OCT 18 | NOV 07 | 179                     | 154 | 129 | 29                                |  |
|                           | 32                            | APR 04                  | APR 22 | MAY 11 | OCT 22                  | NOV 06 | NOV 21 | 221                     | 197 | 172 | 16                                |  |
|                           | 28                            | FEB 09                  | MAR 12 | APR 12 | OCT 26                  | NOV 25 | DEC 25 | 297                     | 257 | 218 | 6                                 |  |
| MC MILLIN RESERVOIR       | 36                            | MAY 06                  | MAY 23 | JUN 09 | SEP 15                  | OCT 03 | OCT 21 | 157                     | 132 | 107 | 34                                |  |
|                           | 32                            | APR 14                  | MAY 04 | MAY 25 | SEP 30                  | OCT 18 | NOV 05 | 195                     | 166 | 136 | 22                                |  |
|                           | 28                            | MAR 09                  | APR 04 | APR 29 | OCT 23                  | NOV 08 | NOV 24 | 247                     | 218 | 189 | 9                                 |  |
| MONROE                    | 36                            | APR 27                  | MAY 14 | MAY 31 | SEP 17                  | OCT 05 | OCT 24 | 168                     | 144 | 119 | 28                                |  |
|                           | 32                            | APR 02                  | APR 19 | MAY 05 | OCT 07                  | OCT 25 | NOV 11 | 213                     | 188 | 163 | 16                                |  |
|                           | 28                            | FEB 26                  | MAR 21 | APR 14 | OCT 23                  | NOV 14 | DEC 05 | 269                     | 236 | 204 | 7                                 |  |
| MOSES LAKE 3 E            | 36                            | MAY 01                  | MAY 20 | JUN 09 | SEP 01                  | SEP 16 | OCT 01 | 142                     | 118 | 94  | 50                                |  |
|                           | 32                            | APR 19                  | MAY 07 | MAY 25 | SEP 15                  | OCT 02 | OCT 19 | 174                     | 148 | 121 | 39                                |  |
|                           | 28                            | APR 02                  | APR 17 | MAY 03 | SEP 24                  | OCT 13 | NOV 02 | 202                     | 178 | 154 | 27                                |  |
| MOUNT ADAMS RANGER STA    | 36                            | JUN 02                  | JUN 26 | JUL 21 | AUG 10                  | AUG 26 | SEP 12 | 92                      | 60  | 28  | 58                                |  |
|                           | 32                            | MAY 10                  | JUN 04 | JUN 29 | AUG 29                  | SEP 15 | OCT 02 | 133                     | 103 | 72  | 44                                |  |
|                           | 28                            | APR 22                  | MAY 11 | MAY 30 | SEP 10                  | OCT 01 | OCT 22 | 169                     | 142 | 116 | 26                                |  |
| MOXEE CITY 10 E           | 36                            | MAY 21                  | JUN 13 | JUL 06 | AUG 28                  | SEP 18 | OCT 08 | 125                     | 96  | 66  | 52                                |  |
|                           | 32                            | MAY 02                  | MAY 24 | JUN 14 | SEP 13                  | SEP 30 | OCT 17 | 155                     | 129 | 104 | 41                                |  |
|                           | 28                            | APR 09                  | MAY 01 | MAY 23 | SEP 25                  | OCT 13 | OCT 30 | 194                     | 164 | 134 | 28                                |  |
| MUD MOUNTAIN DAM          | 36                            | MAY 02                  | MAY 19 | JUN 04 | SEP 27                  | OCT 13 | OCT 28 | 169                     | 146 | 123 | 36                                |  |
|                           | 32                            | APR 16                  | APR 28 | MAY 10 | OCT 10                  | OCT 27 | NOV 13 | 202                     | 181 | 160 | 21                                |  |
|                           | 28                            | MAR 01                  | MAR 23 | APR 14 | OCT 29                  | NOV 25 | DEC 23 | 281                     | 247 | 213 | 8                                 |  |
| NEWHALEM                  | 36                            | APR 13                  | MAY 04 | MAY 24 | OCT 06                  | OCT 26 | NOV 15 | 201                     | 175 | 149 | 35                                |  |
|                           | 32                            | MAR 16                  | APR 08 | MAY 01 | OCT 28                  | NOV 13 | NOV 29 | 248                     | 219 | 190 | 18                                |  |
|                           | 28                            | JAN 11                  | FEB 24 | MAR 31 | NOV 05                  | DEC 07 | JAN 17 | >365                    | 286 | 241 | 6                                 |  |
| NEWPORT                   | 36                            | JUN 11                  | JUL 05 | JUL 29 | AUG 04                  | AUG 22 | SEP 09 | 78                      | 47  | 16  | 62                                |  |
|                           | 32                            | MAY 05                  | JUN 07 | JUL 09 | AUG 17                  | SEP 07 | SEP 27 | 137                     | 91  | 45  | 51                                |  |
|                           | 28                            | APR 23                  | MAY 12 | MAY 31 | SEP 06                  | SEP 22 | OCT 08 | 158                     | 132 | 106 | 35                                |  |
| NORTHPORT                 | 36                            | MAY 06                  | MAY 28 | JUN 19 | AUG 27                  | SEP 14 | OCT 01 | 135                     | 108 | 80  | 53                                |  |
|                           | 32                            | APR 24                  | MAY 11 | MAY 29 | SEP 09                  | SEP 26 | OCT 14 | 166                     | 137 | 109 | 40                                |  |
|                           | 28                            | APR 02                  | APR 20 | MAY 08 | SEP 25                  | OCT 14 | NOV 01 | 201                     | 176 | 151 | 26                                |  |
| OAKVILLE                  | 36                            | MAY 09                  | JUN 04 | JUL 01 | AUG 28                  | SEP 19 | OCT 12 | 142                     | 106 | 70  | 36                                |  |
|                           | 32                            | APR 24                  | MAY 10 | MAY 26 | SEP 19                  | OCT 12 | NOV 04 | 181                     | 155 | 128 | 21                                |  |
|                           | 28                            | MAR 15                  | APR 14 | MAY 13 | OCT 06                  | NOV 08 | DEC 11 | 257                     | 208 | 159 | 9                                 |  |
| ODESSA                    | 36                            | MAY 10                  | JUN 04 | JUN 28 | AUG 27                  | SEP 11 | SEP 27 | 132                     | 99  | 66  | 53                                |  |
|                           | 32                            | MAY 02                  | MAY 20 | JUN 07 | SEP 08                  | SEP 23 | OCT 08 | 147                     | 126 | 105 | 42                                |  |
|                           | 28                            | APR 09                  | MAY 02 | MAY 25 | SEP 23                  | OCT 07 | OCT 22 | 185                     | 158 | 131 | 29                                |  |
| OLGA 2 SE                 | 36                            | APR 13                  | APR 30 | MAY 17 | OCT 14                  | OCT 31 | NOV 17 | 208                     | 183 | 157 | 23                                |  |
|                           | 32                            | MAR 07                  | MAR 29 | APR 21 | OCT 31                  | NOV 17 | DEC 04 | 260                     | 232 | 204 | 11                                |  |
|                           | 28                            | JAN 10                  | FEB 15 | MAR 23 | NOV 11                  | DEC 09 | JAN 06 | 337                     | 295 | 256 | 4                                 |  |
| OMAK 2 NW                 | 36                            | MAY 04                  | MAY 29 | JUN 24 | SEP 02                  | SEP 15 | SEP 29 | 137                     | 108 | 80  | 52                                |  |
|                           | 32                            | APR 25                  | MAY 14 | JUN 01 | SEP 11                  | SEP 27 | OCT 13 | 159                     | 136 | 113 | 43                                |  |
|                           | 28                            | APR 12                  | APR 26 | MAY 10 | SEP 24                  | OCT 07 | OCT 20 | 182                     | 163 | 145 | 32                                |  |
| OTHELLO 6 ESE             | 36                            | MAY 03                  | MAY 24 | JUN 15 | SEP 06                  | SEP 21 | OCT 07 | 147                     | 119 | 91  | 47                                |  |
|                           | 32                            | APR 17                  | MAY 06 | MAY 24 | SEP 21                  | OCT 06 | OCT 21 | 180                     | 152 | 125 | 36                                |  |
|                           | 28                            | MAR 25                  | APR 13 | MAY 03 | OCT 05                  | OCT 20 | NOV 03 | 217                     | 189 | 160 | 24                                |  |
| PALMER 3 ESE              | 36                            | APR 27                  | MAY 12 | MAY 27 | OCT 02                  | OCT 19 | NOV 05 | 183                     | 159 | 135 | 33                                |  |
|                           | 32                            | MAR 25                  | APR 12 | APR 30 | OCT 26                  | NOV 10 | NOV 25 | 236                     | 211 | 186 | 16                                |  |
|                           | 28                            | JAN 17                  | FEB 25 | APR 02 | NOV 01                  | DEC 05 | JAN 11 | >365                    | 281 | 237 | 6                                 |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F.) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY * (4) |  |
|---------------------------|--------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                                | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                                | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| WASHINGTON                |                                |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| POMEROY                   | 36<br>32<br>28                 | MAY 06<br>APR 19<br>MAR 23 | MAY 27<br>MAY 07<br>APR 14 | JUN 17<br>MAY 24<br>MAY 06 | SEP 02<br>SEP 16<br>OCT 02 | SEP 19<br>OCT 05<br>OCT 21 | OCT 06<br>OCT 23<br>NOV 10 | 141<br>179<br>221       | 115<br>150<br>189 | 88<br>121<br>157  | 43<br>30<br>18                    |  |
| PORT ANGELES              | 36<br>32<br>28                 | APR 18<br>MAR 15<br>JAN 13 | MAY 01<br>APR 07<br>FEB 22 | MAY 15<br>APR 29<br>MAR 30 | OCT 06<br>OCT 21<br>NOV 04 | OCT 21<br>NOV 10<br>DEC 04 | NOV 05<br>NOV 30<br>JAN 06 | 192<br>249<br>>365      | 172<br>216<br>284 | 152<br>183<br>245 | 26<br>11<br>4                     |  |
| PROSSER 4 NE              | 36<br>32<br>28                 | MAY 07<br>APR 18<br>MAR 26 | MAY 21<br>MAY 04<br>APR 13 | JUN 03<br>MAY 21<br>MAY 01 | SEP 12<br>SEP 24<br>OCT 12 | SEP 26<br>OCT 11<br>OCT 27 | OCT 10<br>OCT 28<br>NOV 11 | 144<br>187<br>223       | 128<br>159<br>197 | 111<br>131<br>172 | 45<br>34<br>21                    |  |
| PULLMAN 2 NW              | 36<br>32<br>28                 | MAY 21<br>APR 24<br>MAR 23 | JUN 19<br>MAY 12<br>APR 16 | JUL 19<br>MAY 31<br>MAY 10 | AUG 17<br>SEP 08<br>SEP 19 | SEP 11<br>SEP 29<br>OCT 12 | OCT 05<br>OCT 20<br>NOV 04 | 124<br>171<br>214       | 83<br>139<br>178  | 41<br>108<br>143  | 49<br>36<br>21                    |  |
| PUYALLUP 2 W EXP STA      | 36<br>32<br>28                 | MAY 04<br>APR 15<br>MAR 12 | MAY 20<br>MAY 01<br>APR 04 | JUN 06<br>MAY 17<br>APR 26 | SEP 09<br>SEP 28<br>OCT 19 | SEP 29<br>OCT 15<br>NOV 05 | OCT 19<br>NOV 02<br>NOV 21 | 158<br>189<br>242       | 131<br>167<br>214 | 103<br>144<br>186 | 32<br>19<br>9                     |  |
| QUILCENE 2 SW             | 36<br>32<br>28                 | MAY 04<br>APR 16<br>MAR 02 | MAY 25<br>MAY 01<br>MAR 26 | JUN 14<br>MAY 15<br>APR 19 | SEP 14<br>OCT 08<br>OCT 20 | SEP 30<br>OCT 20<br>NOV 13 | OCT 16<br>NOV 01<br>DEC 06 | 153<br>189<br>263       | 128<br>171<br>231 | 102<br>153<br>199 | 40<br>25<br>9                     |  |
| QUINCY 1 S                | 36<br>32<br>28                 | APR 30<br>APR 18<br>MAR 29 | MAY 20<br>MAY 03<br>APR 17 | JUN 09<br>MAY 18<br>MAY 06 | SEP 12<br>SEP 20<br>OCT 05 | SEP 25<br>OCT 05<br>OCT 19 | OCT 09<br>OCT 19<br>NOV 03 | 154<br>176<br>211       | 127<br>153<br>185 | 101<br>131<br>158 | 49<br>39<br>28                    |  |
| RAINYER PARADISE RS       | 36<br>32<br>28                 | JUL 11<br>JUN 22<br>MAY 30 | JUL 22<br>JUL 08<br>JUN 20 | AUG 02<br>JUL 23<br>JUL 11 | JUL 30<br>AUG 11<br>SEP 01 | AUG 12<br>AUG 29<br>SEP 24 | AUG 27<br>SEP 16<br>OCT 16 | 42<br>78<br>123         | 20<br>52<br>95    | 0<br>26<br>67     | 72<br>61<br>47                    |  |
| REPUBLIC                  | 36<br>32<br>28                 | JUN 23<br>MAY 15<br>MAY 01 | JUL 12<br>JUN 10<br>MAY 18 | JUL 31<br>JUL 05<br>JUN 03 | AUG 06<br>AUG 23<br>SEP 05 | AUG 22<br>SEP 07<br>SEP 21 | SEP 07<br>SEP 21<br>OCT 08 | 70<br>118<br>150        | 40<br>88<br>126   | 11<br>59<br>102   | 67<br>55<br>43                    |  |
| RICHLAND                  | 36<br>32<br>28                 | APR 13<br>MAR 24<br>MAR 04 | APR 26<br>APR 10<br>MAR 26 | MAY 08<br>APR 27<br>APR 16 | SEP 27<br>OCT 04<br>OCT 19 | OCT 09<br>OCT 20<br>NOV 03 | OCT 21<br>NOV 05<br>NOV 18 | 186<br>217<br>250       | 166<br>192<br>222 | 145<br>167<br>193 | 34<br>24<br>15                    |  |
| RITZVILLE 1 SSE           | 36<br>32<br>28                 | MAY 23<br>MAY 03<br>APR 19 | JUN 14<br>MAY 20<br>MAY 04 | JUL 07<br>JUN 07<br>MAY 18 | AUG 29<br>SEP 10<br>SEP 25 | SEP 17<br>SEP 27<br>OCT 12 | OCT 06<br>OCT 14<br>OCT 30 | 127<br>153<br>186       | 94<br>129<br>161  | 61<br>105<br>136  | 53<br>42<br>28                    |  |
| ROSALIA                   | 36<br>32<br>28                 | MAY 12<br>APR 25<br>MAR 29 | JUN 08<br>MAY 17<br>APR 24 | JUL 05<br>JUN 07<br>MAY 20 | AUG 24<br>SEP 10<br>SEP 17 | SEP 11<br>SEP 26<br>OCT 10 | SEP 29<br>OCT 12<br>NOV 02 | 134<br>162<br>206       | 94<br>132<br>168  | 55<br>101<br>130  | 53<br>40<br>25                    |  |
| SEATTLE-TACOMA WSO        | 36<br>32<br>28                 | APR 01<br>FEB 24<br>DEC 29 | APR 22<br>MAR 24<br>FEB 17 | MAY 14<br>APR 20<br>APR 04 | OCT 10<br>OCT 27<br>NOV 06 | OCT 29<br>NOV 11<br>DEC 06 | NOV 17<br>NOV 26<br>JAN 09 | 216<br>265<br>>365      | 189<br>232<br>289 | 161<br>198<br>241 | 21<br>10<br>4                     |  |
| SEATTLE U OF W            | 36<br>32<br>28                 | MAR 23<br>FEB 25<br>DEC 23 | APR 14<br>MAR 22<br>FEB 05 | MAY 07<br>APR 15<br>MAR 17 | OCT 22<br>NOV 02<br>NOV 10 | NOV 05<br>NOV 23<br>DEC 12 | NOV 20<br>DEC 13<br>JAN 16 | 230<br>277<br>>365      | 204<br>245<br>307 | 178<br>214<br>261 | 18<br>8<br>3                      |  |
| SEDRO WOOLLEY             | 36<br>32<br>28                 | APR 24<br>MAR 25<br>FEB 16 | MAY 12<br>APR 17<br>MAR 12 | MAY 30<br>MAY 10<br>APR 05 | SEP 20<br>OCT 10<br>OCT 24 | OCT 08<br>OCT 27<br>NOV 19 | OCT 25<br>NOV 12<br>DEC 16 | 173<br>225<br>288       | 148<br>192<br>251 | 123<br>160<br>214 | 29<br>16<br>7                     |  |
| SEQUIM                    | 36<br>32<br>28                 | APR 21<br>MAR 25<br>JAN 24 | MAY 10<br>APR 14<br>MAR 07 | MAY 29<br>MAY 03<br>APR 19 | OCT 04<br>OCT 17<br>NOV 01 | OCT 16<br>NOV 04<br>NOV 29 | OCT 28<br>NOV 22<br>DEC 28 | 183<br>232<br>313       | 159<br>203<br>264 | 134<br>175<br>219 | 30<br>15<br>5                     |  |
| SHELTON                   | 36<br>32<br>28                 | MAY 02<br>APR 09<br>FEB 16 | MAY 18<br>APR 28<br>MAR 19 | JUN 04<br>MAY 17<br>APR 19 | SEP 16<br>SEP 30<br>OCT 29 | OCT 05<br>OCT 22<br>NOV 23 | OCT 24<br>NOV 13<br>DEC 17 | 161<br>204<br>283       | 139<br>176<br>248 | 116<br>149<br>213 | 31<br>17<br>6                     |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                   | FREEZE/FROST<br>PROBABILITY *<br>(4) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|--------------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                   |                                      |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90                |                                      |  |
| WASHINGTON                |                               |                            |                            |                            |                            |                            |                            |                            |                   |                   |                                      |  |
| SNOQUALMIE FALLS          | 36<br>32<br>28                | APR 28<br>APR 08<br>FEB 22 | MAY 19<br>APR 29<br>MAR 23 | JUN 08<br>MAY 21<br>APR 21 | SEP 18<br>OCT 03<br>OCT 19 | OCT 04<br>OCT 20<br>NOV 08 | OCT 20<br>NOV 06<br>NOV 27 | 164<br>202<br>268          | 138<br>173<br>229 | 111<br>144<br>190 | 31<br>19<br>7                        |  |
| SPOKANE WSO               | 36<br>32<br>28                | MAY 09<br>APR 19<br>MAR 31 | MAY 23<br>MAY 04<br>APR 18 | JUN 06<br>MAY 20<br>MAY 06 | SEP 07<br>SEP 19<br>OCT 01 | SEP 21<br>OCT 05<br>OCT 17 | OCT 04<br>OCT 22<br>NOV 02 | 141<br>176<br>210          | 120<br>153<br>181 | 100<br>131<br>152 | 50<br>38<br>25                       |  |
| SPRAGUE                   | 36<br>32<br>28                | MAY 28<br>MAY 01<br>APR 14 | JUN 17<br>MAY 23<br>MAY 08 | JUL 07<br>JUN 13<br>MAY 31 | AUG 22<br>AUG 30<br>SEP 18 | SEP 07<br>SEP 18<br>OCT 03 | SEP 23<br>OCT 07<br>OCT 19 | 108<br>148<br>172          | 81<br>118<br>148  | 54<br>87<br>124   | 56<br>44<br>31                       |  |
| STAMPEDE PASS WSO         | 36<br>32<br>28                | JUN 07<br>MAY 11<br>APR 26 | JUN 24<br>JUN 02<br>MAY 12 | JUL 11<br>JUN 24<br>MAY 27 | AUG 25<br>SEP 17<br>OCT 10 | SEP 16<br>OCT 03<br>OCT 26 | OCT 07<br>OCT 20<br>NOV 11 | 110<br>146<br>189          | 83<br>123<br>167  | 56<br>99<br>144   | 61<br>51<br>36                       |  |
| STARTUP 1 E               | 36<br>32<br>28                | MAY 03<br>APR 14<br>MAR 06 | MAY 28<br>MAY 04<br>APR 02 | JUN 22<br>MAY 24<br>APR 29 | SEP 04<br>SEP 27<br>OCT 14 | SEP 27<br>OCT 17<br>NOV 09 | OCT 20<br>NOV 06<br>DEC 04 | 159<br>193<br>254          | 121<br>166<br>220 | 84<br>138<br>186  | 30<br>18<br>8                        |  |
| STEHEKIN 3 NW             | 36<br>32<br>28                | MAY 05<br>APR 20<br>MAR 28 | MAY 25<br>MAY 08<br>APR 18 | JUN 14<br>MAY 26<br>MAY 08 | AUG 31<br>SEP 14<br>OCT 03 | SEP 19<br>OCT 02<br>OCT 18 | OCT 08<br>OCT 21<br>NOV 02 | 147<br>176<br>213          | 116<br>147<br>182 | 86<br>118<br>152  | 52<br>40<br>22                       |  |
| SUNNYSIDE                 | 36<br>32<br>28                | MAY 02<br>APR 12<br>MAR 19 | MAY 16<br>APR 27<br>APR 06 | MAY 31<br>MAY 12<br>APR 24 | SEP 17<br>SEP 26<br>OCT 13 | SEP 29<br>OCT 09<br>OCT 25 | OCT 10<br>OCT 23<br>NOV 07 | 153<br>188<br>221          | 135<br>165<br>201 | 116<br>141<br>181 | 44<br>34<br>21                       |  |
| TACOMA CITY HALL          | 36<br>32<br>28                | APR 11<br>FEB 26<br>DEC 24 | APR 26<br>MAR 24<br>FEB 13 | MAY 11<br>APR 20<br>MAR 25 | OCT 14<br>OCT 25<br>NOV 03 | OCT 29<br>NOV 13<br>DEC 01 | NOV 14<br>DEC 01<br>JAN 23 | 206<br>264<br>>365         | 186<br>233<br>295 | 165<br>202<br>248 | 20<br>9<br>3                         |  |
| VANCOUVER 4 NNE           | 36<br>32<br>28                | APR 19<br>MAR 12<br>JAN 30 | MAY 11<br>APR 12<br>MAR 12 | JUN 01<br>MAY 14<br>APR 21 | SEP 11<br>OCT 06<br>OCT 13 | OCT 08<br>OCT 30<br>NOV 14 | NOV 04<br>NOV 23<br>DEC 17 | 192<br>245<br>306          | 150<br>200<br>244 | 107<br>155<br>188 | 28<br>16<br>7                        |  |
| WALLA-WALLA FAA AP        | 36<br>32<br>28                | APR 11<br>MAR 22<br>FEB 19 | APR 29<br>APR 08<br>MAR 18 | MAY 16<br>APR 25<br>APR 14 | SEP 27<br>OCT 09<br>OCT 22 | OCT 13<br>OCT 29<br>NOV 12 | OCT 30<br>NOV 17<br>DEC 04 | 193<br>229<br>271          | 167<br>203<br>239 | 140<br>177<br>207 | 31<br>19<br>11                       |  |
| WALLA WALLA WSO           | 36<br>32<br>28                | MAR 30<br>MAR 04<br>FEB 06 | APR 15<br>MAR 27<br>MAR 04 | MAY 02<br>APR 19<br>MAR 31 | OCT 04<br>OCT 20<br>OCT 28 | OCT 19<br>NOV 04<br>NOV 18 | NOV 03<br>NOV 19<br>DEC 09 | 209<br>246<br>292          | 186<br>222<br>258 | 163<br>198<br>224 | 27<br>17<br>10                       |  |
| WAPATO                    | 36<br>32<br>28                | APR 26<br>APR 09<br>MAR 19 | MAY 15<br>MAY 27<br>APR 08 | JUN 02<br>MAY 14<br>APR 27 | SEP 22<br>SEP 30<br>OCT 12 | OCT 03<br>OCT 13<br>OCT 28 | OCT 15<br>OCT 25<br>NOV 13 | 162<br>193<br>228          | 141<br>168<br>203 | 121<br>143<br>178 | 42<br>31<br>20                       |  |
| WATERVILLE                | 36<br>32<br>28                | MAY 12<br>APR 29<br>APR 10 | JUN 09<br>MAY 17<br>APR 29 | JUL 06<br>JUN 05<br>MAY 19 | SEP 01<br>SEP 13<br>SEP 23 | SEP 16<br>SEP 27<br>OCT 10 | SEP 30<br>OCT 11<br>OCT 27 | 128<br>153<br>193          | 98<br>132<br>163  | 69<br>111<br>133  | 57<br>47<br>37                       |  |
| WENATCHEE                 | 36<br>32<br>28                | APR 18<br>APR 01<br>MAR 02 | MAY 01<br>APR 17<br>MAR 22 | MAY 14<br>MAY 02<br>APR 11 | SEP 26<br>OCT 02<br>OCT 18 | OCT 08<br>OCT 20<br>NOV 03 | OCT 19<br>NOV 06<br>NOV 20 | 180<br>211<br>253          | 159<br>186<br>226 | 139<br>160<br>198 | 43<br>32<br>20                       |  |
| WILBUR                    | 36<br>32<br>28                | MAY 29<br>MAY 09<br>APR 12 | JUN 26<br>JUN 06<br>MAY 03 | JUL 23<br>JUL 04<br>MAY 23 | AUG 11<br>SEP 01<br>SEP 18 | SEP 03<br>SEP 20<br>OCT 05 | SEP 25<br>OCT 08<br>OCT 22 | 103<br>141<br>182          | 68<br>105<br>155  | 33<br>69<br>127   | 55<br>44<br>30                       |  |
| WILLAPA HARBOR            | 36<br>32<br>28                | APR 26<br>MAR 30<br>JAN 28 | MAY 13<br>APR 20<br>MAR 09 | MAY 29<br>MAY 12<br>APR 18 | SEP 27<br>OCT 16<br>OCT 27 | OCT 15<br>NOV 03<br>DEC 03 | NOV 01<br>NOV 20<br>JAN 09 | 179<br>227<br>316          | 154<br>196<br>266 | 129<br>165<br>222 | 25<br>13<br>4                        |  |
| WILSON CREEK              | 36<br>32<br>28                | MAY 16<br>MAY 01<br>APR 11 | JUN 09<br>MAY 18<br>APR 30 | JUL 02<br>MAY 04<br>MAY 18 | AUG 29<br>SEP 11<br>SEP 22 | SEP 13<br>SEP 24<br>OCT 07 | SEP 28<br>OCT 07<br>OCT 22 | 123<br>150<br>188          | 95<br>128<br>160  | 67<br>106<br>131  | 52<br>42<br>29                       |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| WASHINGTON                |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| WINTHROP 1 WSW            | 36<br>32<br>28                | MAY 26<br>MAY 07<br>APR 20 | JUN 17<br>MAY 28<br>MAY 09 | JUL 09<br>JUN 18<br>MAY 28 | AUG 18<br>AUG 28<br>SEP 12 | AUG 31<br>SEP 14<br>SEP 28 | SEP 14<br>SEP 30<br>OCT 13 | 103<br>131<br>163       | 74<br>108<br>141  | 46<br>85<br>118   | 63<br>54<br>43                    |  |
| YAKIMA WSO                | 36<br>32<br>28                | MAY 13<br>APR 26<br>APR 06 | JUN 26<br>MAY 13<br>APR 25 | JUN 30<br>MAY 30<br>MAY 13 | SEP 01<br>SEP 21<br>SEP 29 | SEP 16<br>OCT 03<br>OCT 16 | OCT 01<br>OCT 16<br>NOV 01 | 129<br>165<br>200       | 101<br>143<br>173 | 74<br>121<br>146  | 52<br>41<br>28                    |  |
| WEST VIRGINIA             |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ATHENS CONCORD COLLEGE    | 36<br>32<br>28                | APR 29<br>APR 16<br>APR 07 | MAY 17<br>MAY 03<br>APR 22 | JUN 05<br>MAY 19<br>MAY 06 | SEP 14<br>SEP 21<br>SEP 30 | SEP 27<br>OCT 04<br>OCT 15 | OCT 11<br>OCT 17<br>OCT 29 | 155<br>174<br>197       | 132<br>154<br>175 | 110<br>134<br>153 | 41<br>33<br>24                    |  |
| BAYARD                    | 36<br>32<br>28                | MAY 21<br>MAY 10<br>APR 22 | JUN 13<br>MAY 26<br>MAY 08 | JUL 05<br>JUN 12<br>MAY 24 | AUG 13<br>AUG 31<br>SEP 14 | SEP 02<br>SEP 19<br>OCT 02 | SEP 23<br>OCT 08<br>OCT 21 | 114<br>142<br>172       | 81<br>115<br>146  | 48<br>88<br>121   | 52<br>45<br>35                    |  |
| BECKLEY V A HOSPITAL      | 36<br>32<br>28                | MAY 14<br>APR 27<br>APR 18 | MAY 29<br>MAY 15<br>MAY 03 | JUN 13<br>JUN 02<br>MAY 17 | AUG 31<br>SEP 16<br>SEP 26 | SEP 17<br>OCT 29<br>OCT 10 | OCT 05<br>OCT 13<br>OCT 24 | 133<br>156<br>179       | 110<br>137<br>160 | 87<br>117<br>141  | 45<br>37<br>29                    |  |
| BLUESTONE DAM             | 36<br>32<br>28                | APR 19<br>APR 15<br>APR 01 | MAY 05<br>APR 28<br>APR 10 | MAY 21<br>MAY 11<br>APR 20 | SEP 29<br>OCT 09<br>OCT 18 | OCT 10<br>OCT 22<br>NOV 01 | OCT 21<br>NOV 03<br>NOV 15 | 177<br>196<br>221       | 157<br>176<br>204 | 137<br>156<br>186 | 41<br>33<br>24                    |  |
| BRANDONVILLE              | 36<br>32<br>28                | MAY 15<br>MAY 05<br>APR 18 | JUN 02<br>MAY 21<br>MAY 04 | JUN 21<br>JUN 06<br>MAY 20 | AUG 26<br>SEP 14<br>SEP 19 | SEP 13<br>SEP 26<br>OCT 03 | OCT 01<br>OCT 07<br>OCT 17 | 128<br>147<br>173       | 102<br>127<br>151 | 76<br>107<br>129  | 48<br>41<br>33                    |  |
| BUCKHANNON 2 W            | 36<br>32<br>28                | MAY 10<br>APR 25<br>APR 15 | MAY 24<br>MAY 13<br>APR 28 | JUN 07<br>MAY 31<br>MAY 10 | SEP 12<br>SEP 19<br>SEP 28 | SEP 24<br>OCT 02<br>OCT 11 | OCT 06<br>OCT 14<br>OCT 24 | 143<br>164<br>182       | 123<br>141<br>166 | 103<br>118<br>149 | 43<br>36<br>27                    |  |
| CAIRO 3 S                 | 36<br>32<br>28                | MAY 04<br>APR 21<br>APR 10 | MAY 18<br>MAY 05<br>APR 23 | JUN 01<br>MAY 18<br>MAY 06 | SEP 16<br>SEP 20<br>OCT 02 | SEP 29<br>OCT 05<br>OCT 18 | OCT 12<br>OCT 20<br>NOV 03 | 153<br>173<br>195       | 133<br>153<br>177 | 112<br>133<br>159 | 43<br>35<br>26                    |  |
| CANAAN VALLEY             | 36<br>32<br>28                | MAY 31<br>MAY 13<br>APR 28 | JUN 25<br>JUN 03<br>MAY 16 | JUL 21<br>JUN 24<br>JUN 03 | AUG 06<br>AUG 16<br>SEP 02 | AUG 24<br>SEP 08<br>SEP 22 | SEP 12<br>SEP 30<br>OCT 12 | 91<br>132<br>153        | 59<br>96<br>128   | 27<br>60<br>103   | 52<br>45<br>36                    |  |
| CLARKSBURG 1              | 36<br>32<br>28                | APR 26<br>APR 20<br>APR 05 | MAY 13<br>MAY 03<br>APR 18 | MAY 31<br>MAY 15<br>APR 30 | SEP 18<br>SEP 27<br>OCT 13 | OCT 01<br>OCT 10<br>OCT 28 | OCT 15<br>OCT 24<br>NOV 12 | 164<br>180<br>212       | 140<br>160<br>193 | 117<br>140<br>174 | 44<br>37<br>27                    |  |
| ELKINS WSO                | 36<br>32<br>28                | MAY 12<br>APR 27<br>APR 15 | MAY 27<br>MAY 14<br>MAY 01 | JUN 10<br>JUN 01<br>MAY 18 | SEP 12<br>SEP 20<br>SEP 29 | SEP 25<br>OCT 02<br>OCT 11 | OCT 08<br>OCT 14<br>OCT 23 | 140<br>161<br>182       | 121<br>140<br>162 | 102<br>119<br>143 | 47<br>40<br>32                    |  |
| FAIRMONT                  | 36<br>32<br>28                | APR 21<br>APR 12<br>MAR 30 | MAY 12<br>APR 27<br>APR 15 | JUN 01<br>MAY 12<br>MAY 01 | SEP 19<br>SEP 29<br>OCT 10 | OCT 02<br>OCT 14<br>OCT 26 | OCT 15<br>OCT 29<br>NOV 11 | 168<br>190<br>214       | 143<br>169<br>193 | 118<br>148<br>172 | 39<br>32<br>24                    |  |
| FLAT TOP                  | 36<br>32<br>28                | MAY 05<br>APR 18<br>APR 05 | MAY 23<br>MAY 05<br>APR 22 | JUN 09<br>MAY 23<br>MAY 09 | SEP 10<br>SEP 23<br>OCT 01 | SEP 28<br>OCT 05<br>OCT 16 | OCT 15<br>OCT 17<br>OCT 31 | 152<br>172<br>201       | 127<br>152<br>177 | 103<br>132<br>153 | 44<br>37<br>29                    |  |
| FRANKLIN 2 NE             | 36<br>32<br>28                | MAY 04<br>APR 23<br>APR 12 | MAY 22<br>MAY 12<br>APR 28 | JUN 09<br>MAY 31<br>MAY 13 | SEP 09<br>SEP 19<br>SEP 23 | SEP 23<br>OCT 01<br>OCT 10 | OCT 06<br>OCT 14<br>OCT 27 | 146<br>165<br>189       | 123<br>142<br>164 | 100<br>118<br>140 | 44<br>37<br>28                    |  |
| GASSAWAY                  | 36<br>32<br>28                | APR 26<br>APR 18<br>APR 04 | MAY 13<br>MAY 12<br>APR 17 | MAY 30<br>MAY 12<br>MAY 01 | SEP 27<br>OCT 02<br>OCT 13 | OCT 08<br>OCT 16<br>OCT 26 | OCT 19<br>OCT 29<br>NOV 09 | 166<br>187<br>208       | 147<br>168<br>191 | 129<br>149<br>174 | 40<br>33<br>24                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| WEST VIRGINIA             |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| GLENVILLE 2 NE            | 36                            | APR 29                  | MAY 16 | JUN 02 | SEP 19                  | OCT 02 | OCT 15 | 159                     | 139 | 119 | 43                                |  |
|                           | 32                            | APR 16                  | MAY 05 | MAY 24 | SEP 28                  | OCT 10 | OCT 23 | 180                     | 158 | 136 | 35                                |  |
|                           | 28                            | APR 08                  | APR 24 | MAY 10 | OCT 11                  | OCT 24 | NOV 06 | 205                     | 182 | 159 | 27                                |  |
| HAMLIN                    | 36                            | APR 30                  | MAY 15 | MAY 30 | SEP 20                  | OCT 01 | OCT 13 | 156                     | 138 | 121 | 43                                |  |
|                           | 32                            | APR 19                  | MAY 03 | MAY 16 | SEP 25                  | OCT 09 | OCT 22 | 175                     | 158 | 142 | 36                                |  |
|                           | 28                            | APR 05                  | APR 19 | MAY 04 | OCT 07                  | OCT 19 | OCT 31 | 198                     | 182 | 166 | 27                                |  |
| HOGSETT GALLIPOLIS DAM    | 36                            | APR 19                  | MAY 07 | MAY 25 | SEP 22                  | OCT 06 | OCT 19 | 176                     | 151 | 126 | 42                                |  |
|                           | 32                            | APR 13                  | APR 29 | MAY 15 | OCT 03                  | OCT 17 | NOV 01 | 195                     | 170 | 146 | 35                                |  |
|                           | 28                            | MAR 30                  | APR 15 | MAY 01 | OCT 13                  | OCT 28 | NOV 11 | 221                     | 195 | 169 | 26                                |  |
| KEARNEYSVILLE 1 NW WBA    | 36                            | APR 28                  | MAY 12 | MAY 27 | SEP 16                  | SEP 27 | OCT 08 | 155                     | 137 | 119 | 42                                |  |
|                           | 32                            | APR 14                  | MAY 02 | MAY 19 | SEP 23                  | OCT 06 | OCT 19 | 179                     | 156 | 134 | 35                                |  |
|                           | 28                            | APR 02                  | APR 17 | MAY 01 | OCT 02                  | OCT 19 | NOV 06 | 209                     | 185 | 161 | 25                                |  |
| LEWISBURG 2 SSW           | 36                            | APR 25                  | MAY 22 | JUN 18 | SEP 07                  | SEP 24 | OCT 10 | 160                     | 124 | 88  | 43                                |  |
|                           | 32                            | APR 17                  | MAY 04 | MAY 21 | SEP 20                  | OCT 02 | OCT 14 | 172                     | 150 | 127 | 35                                |  |
|                           | 28                            | APR 07                  | APR 23 | MAY 09 | SEP 28                  | OCT 12 | OCT 25 | 192                     | 171 | 150 | 27                                |  |
| LONDON LOCKS              | 36                            | APR 18                  | MAY 04 | MAY 20 | OCT 05                  | OCT 16 | OCT 27 | 184                     | 165 | 145 | 38                                |  |
|                           | 32                            | APR 05                  | APR 20 | MAY 05 | OCT 13                  | OCT 29 | NOV 13 | 213                     | 191 | 168 | 30                                |  |
|                           | 28                            | MAR 21                  | APR 06 | APR 21 | OCT 22                  | NOV 04 | NOV 18 | 236                     | 212 | 188 | 22                                |  |
| MADISON                   | 36                            | APR 19                  | MAY 08 | MAY 28 | SEP 26                  | OCT 09 | OCT 21 | 175                     | 153 | 130 | 40                                |  |
|                           | 32                            | APR 15                  | APR 27 | MAY 09 | OCT 05                  | OCT 19 | NOV 02 | 193                     | 174 | 156 | 33                                |  |
|                           | 28                            | MAR 28                  | APR 13 | APR 28 | OCT 15                  | OCT 28 | NOV 10 | 219                     | 198 | 177 | 24                                |  |
| MANNINGTON 1 N            | 36                            | MAY 09                  | MAY 26 | JUN 12 | SEP 12                  | SEP 24 | OCT 06 | 141                     | 120 | 99  | 46                                |  |
|                           | 32                            | APR 26                  | MAY 14 | MAY 31 | SEP 19                  | OCT 02 | OCT 14 | 161                     | 140 | 119 | 38                                |  |
|                           | 28                            | APR 19                  | MAY 02 | MAY 16 | SEP 24                  | OCT 11 | OCT 28 | 181                     | 161 | 142 | 30                                |  |
| MARTINSBURG FAA AP        | 36                            | APR 19                  | MAY 05 | MAY 21 | SEP 17                  | OCT 02 | OCT 16 | 170                     | 148 | 127 | 41                                |  |
|                           | 32                            | APR 09                  | APR 25 | MAY 11 | SEP 26                  | OCT 14 | OCT 31 | 198                     | 171 | 144 | 33                                |  |
|                           | 28                            | MAR 25                  | APR 10 | APR 26 | OCT 09                  | OCT 24 | NOV 07 | 216                     | 196 | 175 | 23                                |  |
| MCROSS                    | 36                            | MAY 11                  | MAY 25 | JUN 07 | SEP 10                  | SEP 24 | OCT 09 | 143                     | 122 | 101 | 46                                |  |
|                           | 32                            | MAY 02                  | MAY 16 | MAY 30 | SEP 20                  | OCT 02 | OCT 14 | 154                     | 138 | 122 | 39                                |  |
|                           | 28                            | APR 15                  | MAY 01 | MAY 16 | OCT 03                  | OCT 14 | OCT 24 | 183                     | 165 | 147 | 30                                |  |
| MIDDLEBOURNE 2 ESE        | 36                            | MAY 05                  | MAY 19 | JUN 01 | SEP 18                  | OCT 01 | OCT 13 | 153                     | 134 | 115 | 44                                |  |
|                           | 32                            | APR 21                  | MAY 08 | MAY 25 | SEP 21                  | OCT 06 | OCT 22 | 173                     | 151 | 129 | 37                                |  |
|                           | 28                            | APR 14                  | APR 26 | MAY 08 | OCT 08                  | OCT 20 | NOV 02 | 193                     | 176 | 160 | 28                                |  |
| MORGANTOWN FAA AIRPORT    | 36                            | APR 20                  | MAY 08 | MAY 27 | SEP 20                  | OCT 02 | OCT 15 | 168                     | 146 | 125 | 38                                |  |
|                           | 32                            | APR 12                  | APR 29 | MAY 15 | SEP 28                  | OCT 15 | NOV 01 | 193                     | 169 | 144 | 31                                |  |
|                           | 28                            | MAR 31                  | APR 15 | APR 30 | OCT 14                  | OCT 29 | NOV 14 | 217                     | 197 | 176 | 23                                |  |
| MORGANTOWN L AND D        | 36                            | APR 27                  | MAY 15 | JUN 01 | SEP 20                  | OCT 02 | OCT 14 | 163                     | 140 | 116 | 42                                |  |
|                           | 32                            | APR 18                  | MAY 04 | MAY 20 | OCT 02                  | OCT 13 | OCT 25 | 182                     | 161 | 140 | 34                                |  |
|                           | 28                            | APR 05                  | APR 23 | MAY 11 | OCT 13                  | OCT 28 | NOV 12 | 212                     | 187 | 163 | 25                                |  |
| NEW CUMBERLAND            | 36                            | APR 30                  | MAY 15 | MAY 31 | SEP 23                  | OCT 06 | OCT 18 | 163                     | 143 | 123 | 41                                |  |
|                           | 32                            | APR 20                  | MAY 03 | MAY 16 | OCT 04                  | OCT 18 | NOV 02 | 188                     | 168 | 148 | 33                                |  |
|                           | 28                            | APR 10                  | APR 21 | MAY 03 | OCT 18                  | OCT 31 | NOV 14 | 207                     | 192 | 178 | 24                                |  |
| OAK HILL                  | 36                            | APR 29                  | MAY 16 | JUN 02 | SEP 18                  | OCT 01 | OCT 13 | 156                     | 137 | 118 | 43                                |  |
|                           | 32                            | APR 17                  | MAY 03 | MAY 19 | SEP 29                  | OCT 10 | OCT 21 | 178                     | 159 | 140 | 36                                |  |
|                           | 28                            | MAR 31                  | APR 19 | MAY 07 | OCT 04                  | OCT 17 | OCT 29 | 202                     | 180 | 158 | 28                                |  |
| PARKERSBURG FAA AP        | 36                            | APR 19                  | MAY 04 | MAY 18 | SEP 23                  | OCT 06 | OCT 19 | 174                     | 154 | 135 | 37                                |  |
|                           | 32                            | APR 11                  | APR 25 | MAY 09 | OCT 02                  | OCT 18 | NOV 03 | 196                     | 175 | 155 | 30                                |  |
|                           | 28                            | MAR 29                  | APR 11 | APR 24 | OCT 17                  | NOV 02 | NOV 19 | 224                     | 204 | 184 | 21                                |  |
| PICKENS 1                 | 36                            | MAY 12                  | MAY 30 | JUN 17 | SEP 03                  | SEP 18 | OCT 03 | 134                     | 110 | 85  | 47                                |  |
|                           | 32                            | MAY 01                  | MAY 18 | JUN 03 | SEP 12                  | SEP 27 | OCT 12 | 154                     | 131 | 109 | 40                                |  |
|                           | 28                            | APR 17                  | MAY 05 | MAY 22 | SEP 25                  | OCT 10 | OCT 24 | 176                     | 157 | 138 | 31                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| WEST VIRGINIA             |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| PINEVILLE                 | 36<br>32<br>28                | APR 24<br>APR 16<br>MAR 31 | MAY 10<br>MAY 01<br>APR 16 | MAY 26<br>MAY 16<br>MAY 02 | SEP 24<br>OCT 02<br>OCT 13 | OCT 07<br>OCT 15<br>OCT 27 | OCT 19<br>OCT 28<br>NOV 10 | 169<br>188<br>215       | 149<br>167<br>193 | 129<br>145<br>172 | 43<br>36<br>26                    |  |
| RAVENSWOOD LOCK PARK      | 36<br>32<br>28                | APR 24<br>APR 17<br>MAR 30 | MAY 11<br>MAY 10<br>APR 13 | MAY 29<br>MAY 10<br>APR 27 | SEP 18<br>SEP 26<br>OCT 09 | OCT 01<br>OCT 10<br>OCT 26 | OCT 15<br>OCT 24<br>NOV 12 | 164<br>181<br>219       | 142<br>164<br>195 | 121<br>146<br>171 | 38<br>31<br>22                    |  |
| ROWLESBURG 1              | 36<br>32<br>28                | MAY 03<br>APR 22<br>APR 05 | MAY 19<br>MAY 07<br>APR 21 | JUN 03<br>MAY 23<br>MAY 07 | SEP 19<br>SEP 29<br>OCT 11 | OCT 01<br>OCT 11<br>OCT 25 | OCT 12<br>OCT 22<br>NOV 07 | 153<br>177<br>206       | 134<br>155<br>186 | 115<br>134<br>166 | 44<br>36<br>26                    |  |
| SPENCER                   | 36<br>32<br>28                | APR 24<br>APR 16<br>APR 04 | MAY 13<br>MAY 02<br>APR 20 | MAY 31<br>MAY 19<br>MAY 07 | SEP 17<br>SEP 23<br>OCT 06 | OCT 01<br>OCT 08<br>OCT 20 | OCT 15<br>OCT 23<br>NOV 04 | 161<br>178<br>203       | 140<br>158<br>182 | 120<br>138<br>161 | 39<br>32<br>23                    |  |
| SPRUCE KNOB               | 36<br>32<br>28                | MAY 02<br>APR 19<br>APR 11 | MAY 24<br>MAY 12<br>APR 29 | JUN 15<br>JUN 04<br>MAY 18 | SEP 05<br>SEP 18<br>SEP 30 | SEP 22<br>OCT 02<br>OCT 16 | OCT 09<br>OCT 17<br>OCT 31 | 153<br>171<br>193       | 120<br>142<br>169 | 88<br>113<br>145  | 46<br>39<br>32                    |  |
| UNION                     | 36<br>32<br>28                | MAY 03<br>APR 20<br>APR 14 | MAY 22<br>MAY 08<br>APR 28 | JUN 10<br>MAY 26<br>MAY 11 | SEP 02<br>SEP 21<br>SEP 28 | SEP 20<br>OCT 03<br>OCT 12 | OCT 08<br>OCT 15<br>OCT 26 | 147<br>167<br>184       | 120<br>147<br>167 | 94<br>126<br>149  | 45<br>38<br>30                    |  |
| WARDENSVILLE R M FARM     | 36<br>32<br>28                | MAY 08<br>APR 24<br>APR 09 | MAY 21<br>MAY 08<br>APR 24 | JUN 02<br>MAY 22<br>MAY 10 | SEP 14<br>SEP 20<br>SEP 27 | SEP 27<br>OCT 04<br>OCT 12 | OCT 10<br>OCT 18<br>OCT 27 | 147<br>170<br>192       | 129<br>148<br>170 | 111<br>127<br>147 | 46<br>39<br>30                    |  |
| WEBSTER SPRINGS 1 E       | 36<br>32<br>28                | APR 28<br>APR 17<br>APR 06 | MAY 16<br>MAY 05<br>APR 22 | JUN 03<br>MAY 22<br>MAY 08 | SEP 17<br>SEP 26<br>OCT 06 | OCT 01<br>OCT 08<br>OCT 21 | OCT 16<br>OCT 20<br>NOV 04 | 158<br>177<br>205       | 138<br>156<br>181 | 118<br>134<br>157 | 40<br>32<br>23                    |  |
| WELLSBURG 3 NE            | 36<br>32<br>28                | MAY 04<br>APR 22<br>APR 10 | MAY 19<br>MAY 10<br>APR 26 | JUN 03<br>MAY 29<br>MAY 12 | SEP 14<br>SEP 19<br>SEP 28 | SEP 27<br>OCT 08<br>OCT 19 | OCT 10<br>OCT 28<br>NOV 10 | 153<br>183<br>205       | 130<br>150<br>175 | 107<br>117<br>145 | 44<br>36<br>27                    |  |
| WESTON                    | 36<br>32<br>28                | APR 24<br>APR 18<br>APR 04 | MAY 12<br>MAY 02<br>APR 19 | MAY 31<br>MAY 16<br>MAY 03 | SEP 17<br>OCT 01<br>OCT 11 | OCT 01<br>OCT 13<br>OCT 26 | OCT 15<br>OCT 24<br>NOV 10 | 161<br>181<br>210       | 141<br>163<br>190 | 121<br>146<br>170 | 44<br>37<br>27                    |  |
| WHEELING FILT PLANT       | 36<br>32<br>28                | APR 22<br>APR 12<br>APR 01 | MAY 06<br>MAY 25<br>APR 13 | MAY 20<br>MAY 07<br>APR 25 | SEP 27<br>OCT 14<br>OCT 21 | OCT 11<br>OCT 27<br>NOV 04 | OCT 25<br>NOV 10<br>NOV 18 | 179<br>199<br>221       | 157<br>185<br>204 | 135<br>171<br>187 | 41<br>32<br>24                    |  |
| WHITE SULPHUR SPRINGS     | 36<br>32<br>28                | MAY 07<br>APR 25<br>APR 14 | MAY 25<br>MAY 13<br>APR 27 | JUN 11<br>MAY 31<br>MAY 11 | SEP 14<br>SEP 20<br>OCT 01 | SEP 27<br>OCT 03<br>OCT 11 | OCT 10<br>OCT 16<br>OCT 22 | 147<br>161<br>182       | 125<br>142<br>166 | 102<br>123<br>150 | 44<br>36<br>27                    |  |
| WINFIELD LOCKS            | 36<br>32<br>28                | APR 19<br>APR 07<br>MAR 20 | MAY 02<br>MAY 22<br>APR 05 | MAY 15<br>MAY 06<br>APR 20 | OCT 01<br>OCT 09<br>OCT 21 | OCT 14<br>OCT 23<br>NOV 06 | OCT 26<br>NOV 05<br>NOV 22 | 182<br>202<br>239       | 164<br>183<br>214 | 146<br>165<br>189 | 39<br>31<br>21                    |  |
| WISCONSIN                 |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| AMERY                     | 36<br>32<br>28                | MAY 11<br>MAY 03<br>APR 16 | MAY 27<br>MAY 16<br>MAY 01 | JUN 11<br>MAY 28<br>MAY 16 | AUG 30<br>SEP 10<br>SEP 22 | SEP 14<br>SEP 24<br>OCT 08 | SEP 29<br>OCT 08<br>OCT 23 | 130<br>149<br>177       | 110<br>130<br>159 | 90<br>111<br>142  | 54<br>48<br>41                    |  |
| ANTIGO 1 SSW              | 36<br>32<br>28                | MAY 21<br>MAY 07<br>APR 21 | JUN 07<br>MAY 23<br>MAY 05 | JUN 24<br>JUN 09<br>MAY 20 | AUG 22<br>SEP 01<br>SEP 22 | SEP 06<br>SEP 17<br>OCT 06 | SEP 21<br>OCT 03<br>OCT 19 | 115<br>141<br>175       | 91<br>116<br>153  | 67<br>92<br>131   | 55<br>49<br>41                    |  |
| APPLETON                  | 36<br>32<br>28                | APR 30<br>APR 19<br>APR 06 | MAY 13<br>MAY 02<br>APR 19 | MAY 26<br>MAY 15<br>MAY 02 | SEP 16<br>SEP 29<br>OCT 16 | OCT 01<br>OCT 13<br>OCT 29 | OCT 16<br>OCT 27<br>NOV 11 | 160<br>185<br>209       | 140<br>164<br>192 | 121<br>142<br>175 | 49<br>43<br>35                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| <b>WISCONSIN</b>          |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ASHLAND EXP FARM          | 36<br>32<br>28                | MAY 31<br>MAY 15<br>MAY 04 | JUN 14<br>JUN 01<br>MAY 17 | JUN 28<br>JUN 18<br>MAY 30 | AUG 22<br>SEP 06<br>SEP 16 | SEP 05<br>SEP 19<br>SEP 28 | SEP 19<br>OCT 02<br>OCT 10 | 103<br>131<br>153       | 82<br>109<br>133  | 61<br>87<br>114   | 58<br>52<br>44                    |  |
| BARABOO                   | 36<br>32<br>28                | MAY 15<br>APR 27<br>APR 18 | MAY 29<br>MAY 13<br>MAY 03 | JUN 12<br>MAY 28<br>MAY 18 | AUG 30<br>SEP 14<br>SEP 19 | SEP 14<br>SEP 24<br>OCT 06 | SEP 29<br>OCT 04<br>OCT 22 | 128<br>152<br>174       | 107<br>134<br>155 | 87<br>115<br>136  | 53<br>46<br>39                    |  |
| BAYFIELD 6 N              | 36<br>32<br>28                | MAY 19<br>MAY 04<br>APR 23 | JUN 08<br>MAY 18<br>MAY 06 | JUN 28<br>JUN 02<br>MAY 20 | AUG 27<br>SEP 16<br>SEP 27 | SEP 15<br>SEP 29<br>OCT 15 | OCT 04<br>OCT 12<br>NOV 02 | 126<br>153<br>184       | 98<br>133<br>161  | 71<br>113<br>138  | 55<br>48<br>40                    |  |
| BELOIT                    | 36<br>32<br>28                | APR 26<br>APR 15<br>APR 02 | MAY 11<br>MAY 08<br>APR 16 | MAY 25<br>MAY 08<br>APR 30 | SEP 20<br>SEP 25<br>OCT 12 | OCT 02<br>OCT 11<br>OCT 28 | OCT 14<br>OCT 26<br>NOV 12 | 159<br>188<br>217       | 143<br>167<br>194 | 127<br>145<br>172 | 45<br>39<br>30                    |  |
| BLAIR                     | 36<br>32<br>28                | MAY 08<br>MAY 07<br>APR 17 | MAY 25<br>MAY 19<br>MAY 05 | JUN 11<br>MAY 31<br>MAY 23 | AUG 28<br>SEP 11<br>SEP 22 | SEP 12<br>SEP 22<br>OCT 05 | SEP 27<br>OCT 03<br>OCT 18 | 130<br>140<br>173       | 109<br>125<br>152 | 89<br>111<br>131  | 53<br>47<br>40                    |  |
| BLOOMER                   | 36<br>32<br>28                | MAY 11<br>APR 28<br>APR 16 | MAY 24<br>MAY 13<br>APR 29 | JUN 05<br>MAY 28<br>MAY 11 | SEP 04<br>SEP 15<br>SEP 24 | SEP 17<br>SEP 25<br>OCT 09 | SEP 30<br>OCT 04<br>OCT 23 | 134<br>151<br>184       | 115<br>134<br>162 | 97<br>118<br>140  | 53<br>47<br>40                    |  |
| BRODHEAD                  | 36<br>32<br>28                | MAY 07<br>APR 21<br>APR 10 | MAY 20<br>MAY 09<br>APR 26 | JUN 02<br>MAY 26<br>MAY 11 | SEP 11<br>SEP 16<br>SEP 26 | SEP 22<br>SEP 29<br>OCT 11 | OCT 02<br>OCT 11<br>OCT 25 | 139<br>161<br>190       | 124<br>142<br>167 | 109<br>124<br>145 | 50<br>44<br>37                    |  |
| BRULE ISLAND              | 36<br>32<br>28                | JUN 03<br>MAY 21<br>MAY 05 | JUN 23<br>JUN 05<br>MAY 19 | JUL 13<br>JUN 20<br>JUN 01 | AUG 08<br>AUG 31<br>SEP 12 | AUG 28<br>SEP 14<br>SEP 26 | SEP 17<br>SEP 28<br>OCT 11 | 97<br>121<br>151        | 65<br>100<br>130  | 34<br>80<br>109   | 63<br>56<br>48                    |  |
| BURLINGTON                | 36<br>32<br>28                | MAY 11<br>APR 25<br>APR 13 | MAY 23<br>MAY 12<br>APR 25 | JUN 05<br>MAY 28<br>MAY 06 | SEP 11<br>SEP 23<br>SEP 29 | SEP 24<br>OCT 05<br>OCT 15 | OCT 06<br>OCT 17<br>OCT 31 | 139<br>165<br>191       | 123<br>146<br>172 | 106<br>127<br>154 | 50<br>43<br>35                    |  |
| CHILTON                   | 36<br>32<br>28                | MAY 15<br>MAY 01<br>APR 14 | MAY 28<br>MAY 14<br>APR 30 | JUN 11<br>MAY 27<br>MAY 15 | SEP 14<br>SEP 22<br>SEP 28 | SEP 24<br>OCT 05<br>OCT 17 | OCT 05<br>OCT 19<br>NOV 05 | 136<br>163<br>196       | 118<br>144<br>170 | 101<br>124<br>143 | 50<br>43<br>36                    |  |
| CODDINGTON 1 E            | 36<br>32<br>28                | MAY 22<br>MAY 15<br>MAY 02 | JUN 17<br>JUN 04<br>MAY 17 | JUL 13<br>JUN 24<br>JUN 01 | AUG 09<br>AUG 17<br>SEP 08 | AUG 25<br>SEP 05<br>SEP 21 | SEP 11<br>SEP 24<br>OCT 05 | 102<br>118<br>145       | 68<br>92<br>127   | 34<br>66<br>108   | 57<br>51<br>43                    |  |
| CRIVITZ HIGH FALLS        | 36<br>32<br>28                | MAY 18<br>MAY 08<br>MAY 01 | JUN 05<br>MAY 23<br>MAY 14 | JUN 23<br>JUN 07<br>MAY 27 | AUG 27<br>SEP 05<br>SEP 19 | SEP 10<br>SEP 20<br>OCT 05 | SEP 24<br>OCT 04<br>OCT 22 | 119<br>144<br>167       | 96<br>119<br>144  | 73<br>94<br>121   | 56<br>50<br>43                    |  |
| CUMBERLAND                | 36<br>32<br>28                | MAY 07<br>APR 26<br>APR 14 | MAY 17<br>MAY 09<br>APR 26 | MAY 27<br>MAY 23<br>MAY 08 | SEP 13<br>SEP 18<br>SEP 30 | SEP 23<br>SEP 30<br>OCT 15 | OCT 02<br>OCT 12<br>OCT 30 | 139<br>163<br>192       | 128<br>143<br>171 | 116<br>123<br>150 | 52<br>47<br>40                    |  |
| DALTON                    | 36<br>32<br>28                | MAY 10<br>APR 24<br>APR 12 | MAY 27<br>MAY 14<br>APR 30 | JUN 12<br>MAY 14<br>MAY 18 | SEP 04<br>SEP 15<br>SEP 22 | SEP 17<br>SEP 28<br>OCT 09 | SEP 30<br>OCT 10<br>OCT 26 | 132<br>159<br>183       | 113<br>136<br>161 | 93<br>113<br>138  | 51<br>45<br>37                    |  |
| DANBURY                   | 36<br>32<br>28                | MAY 24<br>MAY 14<br>MAY 03 | JUN 14<br>MAY 28<br>MAY 18 | JUL 05<br>JUN 10<br>JUN 01 | AUG 13<br>AUG 26<br>SEP 14 | AUG 30<br>SEP 13<br>SEP 24 | SEP 15<br>OCT 01<br>OCT 05 | 104<br>133<br>150       | 76<br>108<br>129  | 49<br>82<br>108   | 58<br>52<br>45                    |  |
| DARLINGTON                | 36<br>32<br>28                | MAY 04<br>APR 27<br>APR 16 | MAY 19<br>MAY 12<br>APR 28 | JUN 03<br>MAY 27<br>MAY 11 | SEP 06<br>SEP 17<br>SEP 23 | SEP 18<br>SEP 28<br>OCT 08 | SEP 30<br>OCT 10<br>OCT 22 | 140<br>152<br>178       | 121<br>138<br>161 | 102<br>125<br>145 | 50<br>44<br>36                    |  |
| DODGEVILLE 1 NE           | 36<br>32<br>28                | MAY 04<br>APR 21<br>APR 14 | MAY 17<br>MAY 06<br>APR 25 | MAY 29<br>MAY 21<br>MAY 06 | SEP 13<br>SEP 21<br>SEP 30 | SEP 25<br>OCT 03<br>OCT 16 | OCT 07<br>OCT 16<br>NOV 01 | 148<br>168<br>194       | 131<br>150<br>173 | 114<br>131<br>152 | 49<br>43<br>36                    |  |

\* IN PERCENT: ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| <b>WISCONSIN</b>          |                               |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| EAU CLAIRE FAA AP         | 36                            | MAY 11                  | MAY 23 | JUN 03 | SEP 08                  | SEP 19 | SEP 30 | 132                     | 119 | 105 | 53                                |  |
|                           | 32                            | APR 24                  | MAY 10 | MAY 26 | SEP 15                  | SEP 26 | OCT 07 | 160                     | 138 | 116 | 47                                |  |
|                           | 28                            | APR 16                  | APR 30 | MAY 14 | SEP 21                  | OCT 06 | OCT 20 | 178                     | 158 | 139 | 41                                |  |
| EL DORADO                 | 36                            | MAY 06                  | MAY 24 | JUN 11 | SEP 02                  | SEP 18 | OCT 04 | 143                     | 116 | 90  | 50                                |  |
|                           | 32                            | APR 21                  | MAY 07 | MAY 23 | SEP 18                  | OCT 01 | OCT 15 | 168                     | 147 | 125 | 44                                |  |
|                           | 28                            | APR 10                  | APR 25 | MAY 10 | SEP 27                  | OCT 13 | OCT 29 | 189                     | 170 | 151 | 36                                |  |
| FOND DU LAC               | 36                            | MAY 03                  | MAY 17 | JUN 01 | SEP 15                  | SEP 28 | OCT 10 | 155                     | 132 | 110 | 49                                |  |
|                           | 32                            | APR 20                  | MAY 04 | MAY 19 | SEP 22                  | OCT 07 | OCT 23 | 181                     | 155 | 129 | 42                                |  |
|                           | 28                            | APR 06                  | APR 21 | MAY 06 | OCT 02                  | OCT 21 | NOV 09 | 209                     | 182 | 155 | 35                                |  |
| FORT ATKINSON             | 36                            | MAY 04                  | MAY 19 | JUN 04 | SEP 15                  | SEP 26 | OCT 08 | 149                     | 129 | 110 | 48                                |  |
|                           | 32                            | APR 21                  | MAY 05 | MAY 20 | SEP 24                  | OCT 06 | OCT 19 | 173                     | 153 | 134 | 41                                |  |
|                           | 28                            | APR 08                  | APR 22 | MAY 06 | OCT 01                  | OCT 19 | NOV 05 | 201                     | 179 | 158 | 33                                |  |
| GENOA DAM 8               | 36                            | APR 25                  | MAY 10 | MAY 26 | SEP 19                  | OCT 02 | OCT 15 | 162                     | 144 | 126 | 47                                |  |
|                           | 32                            | APR 15                  | APR 28 | MAY 11 | SEP 26                  | OCT 11 | OCT 25 | 184                     | 165 | 146 | 41                                |  |
|                           | 28                            | APR 01                  | APR 14 | APR 28 | OCT 12                  | OCT 26 | NOV 08 | 212                     | 194 | 175 | 33                                |  |
| GERMANTOWN                | 36                            | MAY 11                  | MAY 29 | JUN 16 | SEP 06                  | SEP 19 | OCT 03 | 135                     | 113 | 91  | 51                                |  |
|                           | 32                            | MAY 02                  | MAY 17 | JUN 01 | SEP 23                  | OCT 04 | OCT 15 | 160                     | 139 | 119 | 44                                |  |
|                           | 28                            | APR 16                  | APR 30 | MAY 14 | SEP 28                  | OCT 16 | NOV 03 | 191                     | 168 | 144 | 36                                |  |
| GORDON                    | 36                            | MAY 28                  | JUN 20 | JUL 13 | AUG 06                  | AUG 24 | SEP 11 | 96                      | 64  | 32  | 60                                |  |
|                           | 32                            | MAY 19                  | JUN 06 | JUN 24 | AUG 21                  | SEP 06 | SEP 22 | 115                     | 91  | 67  | 54                                |  |
|                           | 28                            | MAY 08                  | MAY 23 | JUN 07 | SEP 11                  | SEP 22 | OCT 04 | 141                     | 122 | 102 | 47                                |  |
| GRANTSBURG                | 36                            | MAY 14                  | JUN 05 | JUN 27 | AUG 23                  | SEP 08 | SEP 25 | 125                     | 94  | 64  | 57                                |  |
|                           | 32                            | MAY 01                  | MAY 20 | JUN 09 | SEP 07                  | SEP 20 | OCT 02 | 147                     | 122 | 97  | 50                                |  |
|                           | 28                            | APR 20                  | MAY 06 | MAY 22 | SEP 16                  | SEP 27 | OCT 08 | 165                     | 143 | 121 | 43                                |  |
| GREEN BAY WSO AP          | 36                            | MAY 09                  | MAY 24 | JUN 09 | SEP 10                  | SEP 21 | OCT 01 | 138                     | 119 | 99  | 52                                |  |
|                           | 32                            | APR 28                  | MAY 12 | MAY 26 | SEP 18                  | OCT 02 | OCT 16 | 164                     | 143 | 121 | 45                                |  |
|                           | 28                            | APR 14                  | APR 27 | MAY 10 | SEP 27                  | OCT 13 | SEP 29 | 193                     | 169 | 145 | 37                                |  |
| HANCOCK EXP FARM          | 36                            | MAY 16                  | MAY 31 | JUN 14 | AUG 24                  | SEP 11 | SEP 29 | 124                     | 102 | 81  | 53                                |  |
|                           | 32                            | APR 30                  | MAY 16 | MAY 31 | SEP 14                  | SEP 25 | OCT 05 | 148                     | 131 | 115 | 46                                |  |
|                           | 28                            | APR 20                  | MAY 06 | MAY 22 | SEP 19                  | OCT 04 | OCT 18 | 168                     | 150 | 132 | 39                                |  |
| HATFIELD HYDRO PLANT      | 36                            | MAY 24                  | JUN 13 | JUL 02 | AUG 14                  | AUG 31 | SEP 17 | 104                     | 79  | 55  | 57                                |  |
|                           | 32                            | MAY 12                  | MAY 28 | JUN 12 | AUG 29                  | SEP 14 | SEP 30 | 131                     | 109 | 86  | 50                                |  |
|                           | 28                            | MAY 01                  | MAY 17 | JUN 01 | SEP 14                  | SEP 25 | OCT 06 | 151                     | 131 | 111 | 43                                |  |
| HILLSBORO                 | 36                            | MAY 09                  | MAY 26 | JUN 11 | AUG 29                  | SEP 14 | SEP 29 | 136                     | 110 | 85  | 52                                |  |
|                           | 32                            | APR 28                  | MAY 15 | JUN 01 | SEP 14                  | SEP 26 | OCT 09 | 155                     | 134 | 112 | 46                                |  |
|                           | 28                            | APR 18                  | MAY 02 | MAY 17 | SEP 24                  | OCT 07 | OCT 20 | 175                     | 157 | 139 | 39                                |  |
| HOLCOMBE                  | 36                            | MAY 11                  | MAY 27 | JUN 12 | AUG 29                  | SEP 14 | OCT 01 | 133                     | 109 | 86  | 53                                |  |
|                           | 32                            | MAY 02                  | MAY 18 | JUN 03 | SEP 11                  | SEP 23 | OCT 05 | 151                     | 128 | 105 | 47                                |  |
|                           | 28                            | APR 16                  | APR 30 | MAY 14 | SEP 23                  | OCT 08 | OCT 24 | 182                     | 161 | 139 | 40                                |  |
| JANESVILLE                | 36                            | APR 28                  | MAY 13 | MAY 27 | SEP 16                  | SEP 30 | OCT 14 | 155                     | 139 | 123 | 46                                |  |
|                           | 32                            | APR 16                  | APR 28 | MAY 11 | SEP 26                  | OCT 10 | OCT 24 | 184                     | 164 | 144 | 40                                |  |
|                           | 28                            | APR 04                  | APR 16 | APR 28 | OCT 07                  | OCT 22 | NOV 06 | 206                     | 188 | 170 | 32                                |  |
| KENOSHA                   | 36                            | APR 25                  | MAY 12 | MAY 29 | SEP 23                  | OCT 08 | OCT 22 | 171                     | 148 | 125 | 46                                |  |
|                           | 32                            | APR 14                  | APR 28 | MAY 12 | SEP 29                  | OCT 16 | NOV 02 | 193                     | 170 | 147 | 38                                |  |
|                           | 28                            | MAR 30                  | APR 15 | MAY 01 | OCT 17                  | OCT 30 | NOV 12 | 217                     | 197 | 177 | 30                                |  |
| KEWAUNEE                  | 36                            | MAY 07                  | MAY 22 | JUN 06 | SEP 20                  | OCT 02 | OCT 14 | 152                     | 132 | 112 | 49                                |  |
|                           | 32                            | APR 18                  | MAY 05 | MAY 21 | SEP 25                  | OCT 11 | OCT 28 | 184                     | 159 | 134 | 41                                |  |
|                           | 28                            | APR 09                  | APR 24 | MAY 09 | OCT 13                  | OCT 27 | NOV 10 | 207                     | 185 | 164 | 33                                |  |
| LA CROSSE FAA AP          | 36                            | APR 26                  | MAY 11 | MAY 25 | SEP 17                  | SEP 30 | OCT 13 | 157                     | 142 | 126 | 47                                |  |
|                           | 32                            | APR 12                  | APR 29 | MAY 15 | SEP 29                  | OCT 13 | OCT 26 | 188                     | 166 | 144 | 41                                |  |
|                           | 28                            | APR 06                  | APR 18 | MAY 01 | OCT 09                  | OCT 23 | NOV 07 | 206                     | 187 | 169 | 35                                |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| WISCONSIN                 |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| LADYSMITH                 | 36<br>32<br>28                | MAY 21<br>MAY 08<br>APR 21 | JUN 05<br>MAY 22<br>MAY 06 | JUN 20<br>JUN 06<br>MAY 21 | AUG 26<br>SEP 11<br>SEP 16 | SEP 11<br>SEP 22<br>SEP 30 | SEP 28<br>OCT 03<br>OCT 15 | 119<br>141<br>172       | 98<br>122<br>147  | 76<br>103<br>122  | 55<br>48<br>41                    |  |
| LAKE GENEVA               | 36<br>32<br>28                | MAY 07<br>APR 20<br>APR 09 | MAY 19<br>MAY 03<br>APR 22 | MAY 31<br>MAY 16<br>MAY 05 | SEP 21<br>SEP 27<br>OCT 10 | OCT 01<br>OCT 12<br>OCT 24 | OCT 11<br>OCT 26<br>NOV 07 | 151<br>180<br>200       | 135<br>161<br>184 | 118<br>141<br>168 | 47<br>40<br>33                    |  |
| LAKE MILLS                | 36<br>32<br>28                | MAY 01<br>APR 17<br>APR 05 | MAY 16<br>MAY 01<br>APR 19 | MAY 31<br>MAY 15<br>MAY 03 | SEP 19<br>SEP 26<br>OCT 09 | SEP 29<br>OCT 12<br>OCT 24 | OCT 10<br>OCT 27<br>NOV 09 | 153<br>184<br>209       | 135<br>163<br>187 | 118<br>142<br>165 | 48<br>42<br>34                    |  |
| LANCASTER                 | 36<br>32<br>28                | MAY 01<br>APR 18<br>APR 09 | MAY 14<br>MAY 04<br>APR 21 | MAY 26<br>MAY 20<br>MAY 04 | SEP 18<br>SEP 24<br>OCT 03 | SEP 30<br>OCT 09<br>OCT 19 | OCT 11<br>OCT 23<br>NOV 04 | 154<br>177<br>201       | 138<br>157<br>180 | 122<br>136<br>159 | 47<br>42<br>35                    |  |
| LONE ROCK FAIR AIRPORT    | 36<br>32<br>28                | MAY 08<br>APR 26<br>APR 16 | MAY 21<br>MAY 11<br>MAY 01 | JUN 03<br>MAY 27<br>MAY 15 | SEP 08<br>SEP 15<br>SEP 20 | SEP 18<br>SEP 27<br>OCT 03 | SEP 28<br>OCT 09<br>OCT 16 | 135<br>154<br>168       | 119<br>138<br>155 | 103<br>122<br>142 | 52<br>46<br>39                    |  |
| LONG LAKE DAM             | 36<br>32<br>28                | JUN 06<br>MAY 25<br>MAY 14 | JUN 28<br>JUN 11<br>MAY 27 | JUL 20<br>JUN 27<br>JUN 10 | AUG 03<br>AUG 17<br>SEP 08 | AUG 22<br>SEP 06<br>SEP 22 | SEP 10<br>SEP 26<br>OCT 06 | 82<br>115<br>139        | 54<br>87<br>117   | 26<br>58<br>95    | 62<br>56<br>49                    |  |
| LYNXVILLE DAM 9           | 36<br>32<br>28                | APR 20<br>APR 13<br>APR 02 | MAY 06<br>APR 24<br>APR 13 | MAY 22<br>MAY 05<br>APR 23 | SEP 22<br>SEP 29<br>OCT 13 | OCT 03<br>OCT 15<br>OCT 27 | OCT 15<br>OCT 30<br>NOV 10 | 171<br>190<br>214       | 149<br>173<br>197 | 128<br>156<br>179 | 46<br>40<br>33                    |  |
| MADELINE ISLAND           | 36<br>32<br>28                | MAY 29<br>MAY 15<br>MAY 05 | JUN 12<br>MAY 29<br>MAY 15 | JUN 26<br>JUN 11<br>MAY 26 | SEP 06<br>SEP 15<br>SEP 22 | SEP 17<br>SEP 28<br>OCT 12 | SEP 28<br>OCT 12<br>OCT 31 | 110<br>138<br>171       | 97<br>122<br>148  | 83<br>106<br>126  | 56<br>48<br>40                    |  |
| MANITOWOC                 | 36<br>32<br>28                | APR 30<br>APR 21<br>APR 05 | MAY 16<br>MAY 06<br>APR 20 | MAY 31<br>MAY 21<br>MAY 06 | SEP 20<br>SEP 27<br>OCT 12 | OCT 02<br>OCT 15<br>OCT 26 | OCT 14<br>NOV 01<br>NOV 10 | 161<br>186<br>210       | 139<br>161<br>188 | 117<br>136<br>166 | 47<br>40<br>32                    |  |
| MARINETTE                 | 36<br>32<br>28                | MAY 05<br>APR 29<br>APR 10 | MAY 20<br>MAY 11<br>APR 24 | JUN 05<br>MAY 22<br>MAY 09 | SEP 11<br>SEP 20<br>OCT 04 | SEP 24<br>OCT 05<br>OCT 20 | OCT 08<br>OCT 21<br>NOV 04 | 148<br>165<br>200       | 126<br>147<br>178 | 104<br>128<br>155 | 50<br>43<br>35                    |  |
| MARSHFIELD EXP FARM       | 36<br>32<br>28                | MAY 14<br>MAY 04<br>APR 21 | MAY 29<br>MAY 17<br>MAY 05 | JUN 14<br>MAY 30<br>MAY 19 | AUG 17<br>SEP 12<br>SEP 19 | SEP 06<br>SEP 23<br>OCT 01 | SEP 26<br>OCT 03<br>OCT 14 | 124<br>144<br>169       | 99<br>128<br>149  | 75<br>112<br>128  | 55<br>49<br>42                    |  |
| MATHER 5 NW               | 36<br>32<br>28                | MAY 13<br>APR 30<br>APR 16 | MAY 26<br>MAY 15<br>APR 29 | JUN 08<br>MAY 29<br>MAY 11 | AUG 25<br>SEP 02<br>SEP 20 | SEP 12<br>SEP 23<br>OCT 07 | SEP 30<br>OCT 13<br>OCT 24 | 131<br>153<br>184       | 108<br>130<br>161 | 85<br>108<br>138  | 54<br>48<br>41                    |  |
| MEDFORD                   | 36<br>32<br>28                | MAY 23<br>MAY 08<br>APR 23 | JUN 03<br>MAY 21<br>MAY 06 | JUN 14<br>JUN 03<br>MAY 19 | AUG 26<br>SEP 09<br>SEP 16 | SEP 10<br>SEP 22<br>SEP 30 | SEP 24<br>OCT 05<br>OCT 13 | 115<br>142<br>168       | 98<br>123<br>146  | 80<br>104<br>124  | 55<br>49<br>42                    |  |
| MELLEN                    | 36<br>32<br>28                | MAY 31<br>MAY 18<br>MAY 03 | JUN 19<br>JUN 03<br>MAY 16 | JUL 08<br>JUN 18<br>MAY 28 | AUG 14<br>SEP 03<br>SEP 17 | SEP 01<br>SEP 15<br>SEP 29 | SEP 19<br>SEP 28<br>OCT 10 | 99<br>121<br>155        | 74<br>104<br>135  | 48<br>52<br>58    | 52<br>52<br>44                    |  |
| MENOMONIE                 | 36<br>32<br>28                | MAY 10<br>APR 27<br>APR 15 | MAY 24<br>MAY 12<br>APR 28 | JUN 07<br>MAY 27<br>MAY 12 | SEP 10<br>SEP 16<br>SEP 23 | SEP 20<br>SEP 27<br>OCT 09 | SEP 30<br>OCT 07<br>OCT 25 | 138<br>157<br>183       | 118<br>137<br>163 | 98<br>117<br>143  | 52<br>46<br>39                    |  |
| MERRILL                   | 36<br>32<br>28                | MAY 22<br>MAY 11<br>APR 24 | JUN 05<br>MAY 24<br>MAY 10 | JUN 18<br>JUN 07<br>MAY 26 | AUG 18<br>SEP 01<br>SEP 14 | SEP 05<br>SEP 18<br>OCT 01 | SEP 24<br>OCT 05<br>OCT 18 | 112<br>140<br>166       | 92<br>116<br>143  | 72<br>92<br>120   | 57<br>50<br>43                    |  |
| MILWAUKEE MT MARY COL     | 36<br>32<br>28                | MAY 06<br>APR 19<br>APR 06 | MAY 19<br>MAY 05<br>APR 20 | JUN 01<br>MAY 20<br>MAY 04 | SEP 17<br>SEP 26<br>OCT 04 | SEP 29<br>OCT 09<br>OCT 22 | OCT 11<br>OCT 23<br>NOV 08 | 152<br>181<br>207       | 133<br>156<br>184 | 113<br>132<br>161 | 47<br>40<br>32                    |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP. THRESHOLD<br>(DEGREES F.) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|---------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                                 | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                                 | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| WISCONSIN                 |                                 |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| MINOCQUA DAM              | 36<br>32<br>28                  | MAY 25<br>MAY 16<br>APR 26 | JUN 10<br>MAY 30<br>MAY 12 | JUN 25<br>JUN 14<br>MAY 28 | AUG 24<br>SEP 02<br>SEP 17 | SEP 10<br>SEP 20<br>OCT 03 | SEP 26<br>OCT 07<br>OCT 20 | 115<br>136<br>170       | 91<br>112<br>143  | 68<br>87<br>117   | 59<br>53<br>45                    |  |
| MONDOVI                   | 36<br>32<br>28                  | MAY 11<br>APR 29<br>APR 16 | MAY 26<br>MAY 14<br>APR 30 | JUN 10<br>MAY 28<br>MAY 15 | SEP 04<br>SEP 16<br>SEP 26 | SEP 16<br>SEP 26<br>OCT 09 | SEP 28<br>OCT 06<br>OCT 21 | 128<br>152<br>181       | 112<br>135<br>160 | 96<br>117<br>140  | 52<br>46<br>39                    |  |
| MONTELLO                  | 36<br>32<br>28                  | MAY 09<br>APR 22<br>APR 15 | MAY 24<br>MAY 09<br>APR 28 | JUN 09<br>MAY 26<br>MAY 10 | SEP 01<br>SEP 15<br>SEP 21 | SEP 16<br>SEP 29<br>OCT 07 | OCT 02<br>OCT 13<br>OCT 23 | 138<br>161<br>180       | 115<br>143<br>162 | 91<br>125<br>143  | 51<br>45<br>38                    |  |
| NEILLSVILLE 3 SW          | 36<br>32<br>28                  | MAY 13<br>MAY 04<br>APR 19 | MAY 30<br>MAY 17<br>MAY 04 | JUN 16<br>MAY 30<br>MAY 19 | AUG 27<br>SEP 12<br>SEP 20 | SEP 10<br>SEP 21<br>OCT 04 | SEP 23<br>OCT 01<br>OCT 18 | 123<br>143<br>171       | 102<br>127<br>152 | 82<br>110<br>134  | 55<br>49<br>42                    |  |
| NEW LONDON                | 36<br>32<br>28                  | MAY 11<br>APR 30<br>APR 12 | MAY 25<br>MAY 13<br>APR 27 | JUN 08<br>MAY 26<br>MAY 12 | SEP 01<br>SEP 16<br>SEP 24 | SEP 17<br>SEP 28<br>OCT 07 | OCT 02<br>OCT 10<br>OCT 19 | 135<br>152<br>181       | 114<br>137<br>162 | 93<br>122<br>142  | 52<br>46<br>38                    |  |
| NORTH PELICAN             | 36<br>32<br>28                  | MAY 18<br>MAY 12<br>APR 27 | JUN 03<br>MAY 23<br>MAY 09 | JUN 19<br>JUN 04<br>MAY 21 | AUG 19<br>SEP 09<br>SEP 19 | SEP 07<br>SEP 22<br>OCT 05 | SEP 25<br>OCT 05<br>OCT 21 | 123<br>141<br>170       | 95<br>121<br>148  | 67<br>101<br>126  | 58<br>51<br>44                    |  |
| OCONOMOWOC                | 36<br>32<br>28                  | MAY 05<br>APR 19<br>APR 08 | MAY 18<br>MAY 03<br>APR 21 | JUN 01<br>MAY 17<br>MAY 03 | SEP 13<br>SEP 26<br>OCT 04 | SEP 25<br>OCT 09<br>OCT 19 | OCT 08<br>OCT 22<br>NOV 03 | 149<br>176<br>203       | 129<br>158<br>181 | 110<br>139<br>158 | 48<br>42<br>34                    |  |
| OCONTO 4 W                | 36<br>32<br>28                  | MAY 13<br>MAY 03<br>APR 18 | MAY 27<br>MAY 16<br>MAY 02 | JUN 10<br>MAY 28<br>MAY 16 | SEP 08<br>SEP 16<br>SEP 25 | SEP 18<br>SEP 28<br>OCT 11 | SEP 29<br>OCT 09<br>OCT 26 | 131<br>152<br>183       | 113<br>134<br>161 | 95<br>117<br>140  | 53<br>47<br>39                    |  |
| OSHKOSH                   | 36<br>32<br>28                  | MAY 06<br>APR 23<br>APR 14 | MAY 20<br>MAY 08<br>APR 28 | JUN 03<br>MAY 24<br>MAY 11 | SEP 14<br>SEP 19<br>OCT 02 | SEP 25<br>OCT 04<br>OCT 17 | OCT 06<br>OCT 18<br>NOV 01 | 146<br>166<br>190       | 127<br>147<br>171 | 108<br>128<br>153 | 49<br>44<br>37                    |  |
| OWEN                      | 36<br>32<br>28                  | MAY 19<br>MAY 06<br>APR 21 | JUN 05<br>MAY 20<br>MAY 09 | JUN 23<br>JUN 04<br>MAY 26 | AUG 20<br>AUG 29<br>SEP 14 | SEP 07<br>SEP 17<br>SEP 30 | SEP 24<br>OCT 05<br>OCT 15 | 117<br>144<br>169       | 92<br>119<br>143  | 68<br>93<br>117   | 57<br>50<br>44                    |  |
| PARK FALLS                | 36<br>32<br>28                  | MAY 20<br>MAY 07<br>APR 20 | JUN 02<br>MAY 19<br>MAY 03 | JUN 16<br>MAY 31<br>MAY 16 | AUG 26<br>SEP 09<br>SEP 20 | SEP 10<br>SEP 23<br>OCT 05 | SEP 26<br>OCT 06<br>OCT 21 | 120<br>146<br>174       | 99<br>126<br>154  | 79<br>105<br>135  | 56<br>49<br>42                    |  |
| PINE RIVER 3 NE           | 36<br>32<br>28                  | MAY 16<br>APR 29<br>APR 19 | MAY 30<br>MAY 17<br>MAY 05 | JUN 13<br>JUN 03<br>MAY 22 | AUG 27<br>SEP 08<br>SEP 22 | SEP 13<br>SEP 24<br>OCT 06 | SEP 30<br>OCT 09<br>OCT 20 | 127<br>156<br>172       | 105<br>129<br>153 | 83<br>102<br>134  | 52<br>45<br>38                    |  |
| PITTSVILLE                | 36<br>32<br>28                  | MAY 18<br>MAY 08<br>APR 21 | JUN 01<br>MAY 19<br>MAY 05 | JUN 15<br>MAY 29<br>MAY 20 | AUG 19<br>SEP 10<br>SEP 16 | SEP 05<br>SEP 20<br>OCT 02 | SEP 22<br>OCT 01<br>OCT 17 | 118<br>137<br>167       | 95<br>124<br>149  | 73<br>110<br>130  | 55<br>48<br>41                    |  |
| PLATTEVILLE               | 36<br>32<br>28                  | MAY 05<br>APR 21<br>APR 11 | MAY 17<br>MAY 08<br>APR 23 | MAY 29<br>MAY 25<br>MAY 04 | SEP 09<br>SEP 17<br>SEP 24 | SEP 21<br>OCT 01<br>OCT 14 | OCT 03<br>OCT 15<br>NOV 03 | 142<br>161<br>196       | 126<br>145<br>174 | 111<br>130<br>152 | 49<br>42<br>35                    |  |
| PLYMOUTH                  | 36<br>32<br>28                  | MAY 10<br>APR 26<br>APR 14 | MAY 25<br>MAY 12<br>APR 27 | JUN 09<br>MAY 27<br>MAY 11 | SEP 17<br>SEP 24<br>OCT 03 | SEP 28<br>OCT 08<br>OCT 20 | OCT 10<br>OCT 22<br>NOV 06 | 142<br>171<br>198       | 125<br>148<br>175 | 109<br>126<br>152 | 50<br>43<br>35                    |  |
| PORTAGE                   | 36<br>32<br>28                  | MAY 04<br>APR 20<br>APR 12 | MAY 26<br>MAY 11<br>APR 30 | JUN 17<br>JUN 01<br>MAY 17 | AUG 26<br>SEP 12<br>SEP 21 | SEP 15<br>OCT 02<br>OCT 11 | OCT 05<br>OCT 21<br>OCT 31 | 141<br>178<br>196       | 111<br>143<br>164 | 81<br>108<br>132  | 50<br>44<br>36                    |  |
| PRAIRIE DU CHIEN          | 36<br>32<br>28                  | APR 27<br>APR 17<br>APR 07 | MAY 12<br>MAY 03<br>APR 21 | MAY 27<br>MAY 18<br>MAY 05 | SEP 15<br>SEP 25<br>OCT 03 | SEP 28<br>OCT 07<br>OCT 19 | OCT 11<br>OCT 19<br>NOV 03 | 159<br>175<br>203       | 138<br>157<br>180 | 118<br>138<br>157 | 47<br>41<br>34                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE / FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                     |  |
|                           |                               | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                     |  |
| <b>WISCONSIN</b>          |                               |                         |        |        |                         |        |        |                         |     |     |                                     |  |
| PRAIRIE DU SAC 2 N        | 36                            | APR 26                  | MAY 10 | MAY 25 | SEP 14                  | SEP 29 | OCT 13 | 158                     | 141 | 123 | 48                                  |  |
|                           | 32                            | APR 16                  | APR 29 | MAY 12 | SEP 22                  | OCT 08 | OCT 24 | 181                     | 162 | 142 | 42                                  |  |
|                           | 28                            | APR 06                  | APR 17 | APR 28 | OCT 05                  | OCT 21 | NOV 07 | 207                     | 187 | 167 | 34                                  |  |
| PRENTICE 1 N              | 36                            | JUN 09                  | JUL 03 | JUL 27 | JUL 31                  | AUG 16 | SEP 01 | 75                      | 42  | 10  | 60                                  |  |
|                           | 32                            | MAY 23                  | JUN 13 | JUL 04 | AUG 12                  | AUG 31 | SEP 18 | 109                     | 78  | 47  | 54                                  |  |
|                           | 28                            | MAY 09                  | MAY 26 | JUN 12 | SEP 01                  | SEP 17 | OCT 03 | 139                     | 114 | 88  | 46                                  |  |
| RACINE                    | 36                            | APR 30                  | MAY 14 | MAY 27 | SEP 24                  | OCT 08 | OCT 22 | 167                     | 147 | 126 | 45                                  |  |
|                           | 32                            | APR 17                  | APR 28 | MAY 10 | OCT 05                  | OCT 19 | NOV 02 | 191                     | 173 | 156 | 38                                  |  |
|                           | 28                            | APR 01                  | APR 16 | APR 30 | OCT 18                  | OCT 31 | NOV 13 | 217                     | 198 | 178 | 29                                  |  |
| RAINBOW RESERVOIR         | 36                            | MAY 28                  | JUN 10 | JUN 24 | AUG 22                  | SEP 06 | SEP 21 | 106                     | 87  | 68  | 59                                  |  |
|                           | 32                            | MAY 17                  | MAY 31 | JUN 13 | SEP 07                  | SEP 18 | SEP 29 | 127                     | 110 | 92  | 53                                  |  |
|                           | 28                            | MAY 02                  | MAY 16 | MAY 29 | SEP 17                  | SEP 29 | OCT 12 | 154                     | 136 | 118 | 45                                  |  |
| REEDSBURG                 | 36                            | MAY 09                  | MAY 21 | JUN 03 | SEP 01                  | SEP 15 | SEP 29 | 136                     | 116 | 96  | 51                                  |  |
|                           | 32                            | APR 27                  | MAY 12 | MAY 27 | SEP 14                  | SEP 28 | OCT 11 | 155                     | 138 | 121 | 44                                  |  |
|                           | 28                            | APR 16                  | APR 30 | MAY 13 | SEP 23                  | OCT 08 | OCT 23 | 180                     | 161 | 142 | 37                                  |  |
| REST LAKE                 | 36                            | MAY 26                  | JUN 09 | JUN 23 | AUG 27                  | SEP 11 | SEP 25 | 113                     | 93  | 74  | 57                                  |  |
|                           | 32                            | MAY 14                  | MAY 27 | JUN 10 | SEP 09                  | SEP 21 | OCT 04 | 132                     | 116 | 100 | 51                                  |  |
|                           | 28                            | APR 28                  | MAY 10 | MAY 22 | SEP 20                  | OCT 05 | OCT 19 | 167                     | 147 | 127 | 44                                  |  |
| RHINELANDER               | 36                            | MAY 19                  | JUN 01 | JUN 14 | AUG 31                  | SEP 12 | SEP 23 | 118                     | 102 | 86  | 56                                  |  |
|                           | 32                            | MAY 09                  | MAY 19 | MAY 28 | SEP 11                  | SEP 23 | OCT 05 | 144                     | 127 | 109 | 50                                  |  |
|                           | 28                            | APR 22                  | MAY 04 | MAY 17 | SEP 23                  | OCT 08 | OCT 22 | 174                     | 155 | 137 | 42                                  |  |
| RICHLAND CENTER           | 36                            | MAY 04                  | MAY 20 | JUN 05 | SEP 09                  | SEP 20 | OCT 01 | 141                     | 122 | 103 | 51                                  |  |
|                           | 32                            | APR 26                  | MAY 11 | MAY 26 | SEP 16                  | SEP 30 | OCT 13 | 155                     | 141 | 127 | 44                                  |  |
|                           | 28                            | APR 16                  | APR 30 | MAY 15 | SEP 27                  | OCT 11 | OCT 26 | 182                     | 163 | 145 | 37                                  |  |
| RIVER FALLS               | 36                            | MAY 07                  | MAY 21 | JUN 04 | SEP 11                  | SEP 21 | OCT 01 | 140                     | 122 | 105 | 51                                  |  |
|                           | 32                            | APR 24                  | MAY 08 | MAY 21 | SEP 16                  | SEP 30 | OCT 13 | 163                     | 144 | 125 | 45                                  |  |
|                           | 28                            | APR 15                  | APR 28 | MAY 11 | SEP 28                  | OCT 12 | OCT 26 | 187                     | 167 | 146 | 38                                  |  |
| ROSHOLT                   | 36                            | MAY 16                  | MAY 30 | JUN 13 | AUG 25                  | SEP 09 | SEP 25 | 122                     | 101 | 80  | 54                                  |  |
|                           | 32                            | MAY 03                  | MAY 20 | JUN 06 | SEP 11                  | SEP 24 | OCT 06 | 148                     | 126 | 104 | 48                                  |  |
|                           | 28                            | APR 19                  | MAY 07 | MAY 25 | SEP 19                  | OCT 05 | OCT 20 | 174                     | 150 | 126 | 41                                  |  |
| ST CROIX FALLS            | 36                            | MAY 10                  | MAY 24 | JUN 07 | SEP 11                  | SEP 20 | SEP 29 | 135                     | 118 | 102 | 53                                  |  |
|                           | 32                            | APR 27                  | MAY 11 | MAY 24 | SEP 22                  | OCT 02 | OCT 13 | 159                     | 144 | 129 | 47                                  |  |
|                           | 28                            | APR 17                  | MAY 02 | MAY 17 | SEP 28                  | OCT 12 | OCT 26 | 183                     | 163 | 142 | 41                                  |  |
| SHAWANO                   | 36                            | MAY 12                  | MAY 28 | JUN 14 | SEP 03                  | SEP 17 | OCT 01 | 134                     | 111 | 87  | 53                                  |  |
|                           | 32                            | MAY 01                  | MAY 16 | MAY 30 | SEP 10                  | SEP 25 | OCT 09 | 153                     | 131 | 109 | 47                                  |  |
|                           | 28                            | APR 19                  | MAY 04 | MAY 18 | SEP 23                  | OCT 08 | OCT 23 | 176                     | 156 | 137 | 39                                  |  |
| SHEBOYGAN                 | 36                            | APR 28                  | MAY 10 | MAY 23 | SEP 23                  | OCT 08 | OCT 24 | 171                     | 150 | 129 | 45                                  |  |
|                           | 32                            | APR 15                  | APR 25 | MAY 06 | OCT 04                  | OCT 21 | NOV 07 | 197                     | 178 | 158 | 38                                  |  |
|                           | 28                            | APR 02                  | APR 14 | APR 27 | OCT 20                  | NOV 03 | NOV 17 | 221                     | 202 | 183 | 30                                  |  |
| SOLON SPRINGS             | 36                            | MAY 21                  | JUN 10 | JUN 29 | AUG 22                  | SEP 05 | SEP 19 | 112                     | 87  | 61  | 58                                  |  |
|                           | 32                            | MAY 15                  | MAY 28 | JUN 10 | SEP 07                  | SEP 18 | SEP 29 | 128                     | 112 | 97  | 52                                  |  |
|                           | 28                            | MAY 02                  | MAY 13 | MAY 25 | SEP 14                  | SEP 27 | OCT 10 | 155                     | 136 | 117 | 44                                  |  |
| SPARTA                    | 36                            | MAY 11                  | MAY 25 | JUN 09 | AUG 30                  | SEP 12 | SEP 26 | 129                     | 109 | 89  | 52                                  |  |
|                           | 32                            | MAY 02                  | MAY 16 | MAY 29 | SEP 13                  | SEP 24 | OCT 06 | 147                     | 131 | 114 | 46                                  |  |
|                           | 28                            | APR 15                  | MAY 02 | MAY 20 | SEP 22                  | OCT 06 | OCT 21 | 177                     | 157 | 136 | 38                                  |  |
| SPOONER EXP FARM          | 36                            | MAY 23                  | JUN 08 | JUN 24 | AUG 16                  | SEP 04 | SEP 23 | 109                     | 87  | 66  | 56                                  |  |
|                           | 32                            | MAY 11                  | MAY 28 | JUN 14 | SEP 02                  | SEP 17 | OCT 03 | 136                     | 112 | 87  | 50                                  |  |
|                           | 28                            | MAY 01                  | MAY 12 | MAY 24 | SEP 14                  | SEP 26 | OCT 09 | 154                     | 136 | 118 | 43                                  |  |
| STANLEY                   | 36                            | MAY 15                  | JUN 01 | JUN 18 | AUG 23                  | SEP 10 | SEP 28 | 127                     | 100 | 74  | 55                                  |  |
|                           | 32                            | MAY 04                  | MAY 19 | JUN 02 | SEP 05                  | SEP 21 | OCT 07 | 149                     | 124 | 99  | 48                                  |  |
|                           | 28                            | APR 21                  | MAY 07 | MAY 23 | SEP 16                  | OCT 02 | OCT 18 | 171                     | 147 | 124 | 41                                  |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| WISCONSIN                 |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| STEVENS POINT             | 36<br>32<br>28                | MAY 12<br>APR 30<br>APR 16 | MAY 24<br>MAY 13<br>APR 30 | JUN 04<br>MAY 25<br>MAY 15 | SEP 03<br>SEP 16<br>SEP 26 | SEP 16<br>SEP 27<br>OCT 10 | SEP 30<br>OCT 09<br>OCT 24 | 134<br>156<br>183       | 115<br>137<br>162 | 97<br>118<br>141  | 52<br>46<br>39                    |  |
| STOUGHTON                 | 36<br>32<br>28                | APR 27<br>APR 17<br>APR 05 | MAY 15<br>MAY 30<br>APR 19 | JUN 01<br>MAY 13<br>MAY 03 | SEP 16<br>SEP 25<br>OCT 01 | SEP 27<br>OCT 09<br>OCT 19 | OCT 08<br>OCT 24<br>NOV 05 | 153<br>182<br>205       | 135<br>161<br>181 | 116<br>141<br>158 | 48<br>42<br>34                    |  |
| STURGEON BAY EXP FARM     | 36<br>32<br>28                | MAY 14<br>MAY 03<br>APR 16 | MAY 28<br>MAY 17<br>MAY 01 | JUN 10<br>MAY 30<br>MAY 15 | SEP 08<br>SEP 21<br>OCT 05 | SEP 23<br>OCT 08<br>OCT 22 | OCT 07<br>OCT 24<br>NOV 08 | 135<br>163<br>197       | 117<br>143<br>173 | 99<br>124<br>149  | 51<br>43<br>35                    |  |
| SUPERIOR                  | 36<br>32<br>28                | MAY 23<br>MAY 05<br>APR 20 | JUN 11<br>MAY 26<br>MAY 13 | JUN 30<br>JUN 16<br>JUN 05 | AUG 19<br>SEP 09<br>SEP 15 | SEP 08<br>SEP 22<br>OCT 02 | SEP 27<br>OCT 06<br>OCT 20 | 118<br>150<br>176       | 87<br>119<br>141  | 56<br>87<br>106   | 58<br>51<br>43                    |  |
| TREMPERALEAU DAM 6        | 36<br>32<br>28                | APR 28<br>APR 15<br>APR 04 | MAY 11<br>APR 30<br>APR 19 | MAY 23<br>MAY 16<br>MAY 04 | SEP 16<br>SEP 24<br>OCT 08 | SEP 26<br>OCT 09<br>OCT 20 | OCT 06<br>OCT 23<br>NOV 01 | 154<br>179<br>202       | 138<br>160<br>183 | 121<br>142<br>164 | 48<br>43<br>35                    |  |
| TWO RIVERS                | 36<br>32<br>28                | MAY 02<br>APR 19<br>APR 05 | MAY 17<br>MAY 03<br>APR 19 | JUN 01<br>MAY 17<br>MAY 03 | SEP 20<br>SEP 27<br>OCT 13 | OCT 01<br>OCT 13<br>OCT 28 | OCT 12<br>OCT 29<br>NOV 13 | 156<br>182<br>211       | 136<br>162<br>192 | 116<br>143<br>173 | 48<br>40<br>32                    |  |
| VIROQUA                   | 36<br>32<br>28                | MAY 11<br>APR 25<br>APR 14 | MAY 22<br>MAY 10<br>APR 30 | JUN 02<br>MAY 25<br>MAY 16 | SEP 04<br>SEP 17<br>SEP 24 | SEP 18<br>SEP 29<br>OCT 11 | OCT 03<br>OCT 10<br>OCT 28 | 137<br>160<br>187       | 119<br>141<br>163 | 101<br>123<br>140 | 51<br>45<br>38                    |  |
| WASHINGTON ISLAND         | 36<br>32<br>28                | MAY 17<br>MAY 06<br>APR 19 | JUN 02<br>MAY 20<br>MAY 06 | JUN 17<br>JUN 03<br>MAY 23 | SEP 07<br>SEP 18<br>OCT 06 | SEP 24<br>OCT 06<br>OCT 24 | OCT 10<br>OCT 23<br>NOV 10 | 135<br>160<br>195       | 113<br>138<br>170 | 91<br>116<br>144  | 52<br>45<br>36                    |  |
| WATERTOWN                 | 36<br>32<br>28                | MAY 05<br>APR 18<br>APR 08 | MAY 19<br>MAY 04<br>APR 23 | JUN 02<br>MAY 21<br>MAY 08 | SEP 13<br>SEP 24<br>OCT 04 | SEP 24<br>OCT 06<br>OCT 19 | OCT 04<br>OCT 19<br>NOV 02 | 144<br>173<br>200       | 127<br>154<br>178 | 109<br>135<br>155 | 48<br>42<br>33                    |  |
| WAUKESHA                  | 36<br>32<br>28                | MAY 02<br>APR 18<br>APR 05 | MAY 15<br>MAY 02<br>APR 18 | MAY 29<br>MAY 16<br>MAY 01 | SEP 19<br>SEP 26<br>OCT 08 | OCT 02<br>OCT 12<br>OCT 25 | OCT 15<br>OCT 27<br>NOV 10 | 159<br>184<br>209       | 139<br>162<br>189 | 120<br>139<br>169 | 47<br>41<br>33                    |  |
| WAUPACA                   | 36<br>32<br>28                | MAY 09<br>APR 29<br>APR 14 | MAY 23<br>MAY 13<br>APR 28 | JUN 06<br>MAY 27<br>MAY 12 | SEP 06<br>SEP 15<br>SEP 25 | SEP 19<br>SEP 28<br>OCT 11 | OCT 02<br>OCT 10<br>OCT 27 | 137<br>157<br>188       | 118<br>137<br>166 | 99<br>117<br>143  | 52<br>45<br>38                    |  |
| WAUSAU FAA AIRPORT        | 36<br>32<br>28                | MAY 08<br>APR 25<br>APR 15 | MAY 22<br>MAY 08<br>APR 28 | JUN 05<br>MAY 22<br>MAY 11 | SEP 09<br>SEP 16<br>SEP 26 | SEP 21<br>SEP 28<br>OCT 11 | OCT 03<br>OCT 10<br>OCT 26 | 139<br>163<br>187       | 121<br>142<br>165 | 102<br>121<br>144 | 53<br>47<br>40                    |  |
| WEST ALLIS                | 36<br>32<br>28                | APR 22<br>APR 12<br>MAR 26 | MAY 06<br>APR 23<br>APR 10 | MAY 20<br>MAY 05<br>APR 25 | SEP 22<br>OCT 09<br>OCT 18 | OCT 08<br>OCT 23<br>NOV 02 | OCT 25<br>NOV 07<br>NOV 17 | 176<br>200<br>222       | 155<br>183<br>205 | 133<br>166<br>187 | 44<br>37<br>29                    |  |
| WEST BEND                 | 36<br>32<br>28                | MAY 07<br>APR 25<br>APR 09 | MAY 23<br>MAY 08<br>APR 23 | JUN 07<br>MAY 21<br>MAY 07 | SEP 17<br>SEP 22<br>OCT 06 | SEP 30<br>OCT 09<br>OCT 23 | OCT 14<br>OCT 25<br>NOV 09 | 151<br>171<br>204       | 130<br>153<br>182 | 108<br>135<br>160 | 49<br>43<br>35                    |  |
| WHITEWATER                | 36<br>32<br>28                | MAY 07<br>APR 22<br>APR 10 | MAY 21<br>MAY 06<br>APR 25 | JUN 05<br>MAY 20<br>MAY 09 | SEP 11<br>SEP 18<br>SEP 27 | SEP 22<br>OCT 05<br>OCT 15 | OCT 03<br>OCT 22<br>NOV 02 | 140<br>167<br>197       | 123<br>151<br>173 | 106<br>136<br>149 | 48<br>41<br>33                    |  |
| WILLOW RESERVOIR          | 36<br>32<br>28                | MAY 27<br>MAY 20<br>APR 30 | JUN 15<br>JUN 01<br>MAY 14 | JUL 05<br>JUN 13<br>MAY 29 | AUG 13<br>AUG 27<br>SEP 12 | SEP 01<br>SEP 13<br>SEP 27 | SEP 21<br>OCT 01<br>OCT 12 | 103<br>130<br>157       | 77<br>104<br>135  | 52<br>52<br>113   | 59<br>52<br>44                    |  |
| WINTER 6 NNW              | 36<br>32<br>28                | MAY 31<br>MAY 21<br>MAY 10 | JUN 20<br>JUN 03<br>MAY 20 | JUL 10<br>JUN 16<br>MAY 30 | AUG 09<br>AUG 27<br>SEP 13 | AUG 27<br>SEP 14<br>SEP 26 | SEP 15<br>OCT 01<br>OCT 08 | 94<br>124<br>145        | 68<br>102<br>128  | 41<br>80<br>111   | 61<br>55<br>47                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| <b>WISCONSIN</b>          |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| WISCONSIN DELLS           | 36<br>32<br>28                | MAY 11<br>APR 24<br>APR 14 | MAY 23<br>MAY 09<br>APR 27 | JUN 03<br>MAY 24<br>MAY 10 | SEP 11<br>SEP 18<br>SEP 28 | SEP 22<br>OCT 01<br>OCT 13 | OCT 02<br>OCT 14<br>OCT 28 | 134<br>159<br>187       | 121<br>145<br>168 | 108<br>130<br>149 | 51<br>45<br>38                    |  |
| WISCONSIN RAPIDS          | 36<br>32<br>28                | MAY 15<br>MAY 05<br>APR 21 | MAY 30<br>MAY 18<br>MAY 05 | JUN 14<br>MAY 30<br>MAY 19 | AUG 27<br>SEP 10<br>SEP 19 | SEP 12<br>SEP 23<br>OCT 03 | SEP 27<br>OCT 05<br>OCT 17 | 124<br>146<br>168       | 104<br>127<br>150 | 84<br>108<br>132  | 54<br>48<br>41                    |  |
| <b>WYOMING</b>            |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| AFTON                     | 36<br>32<br>28                | JUL 12<br>JUN 24<br>MAY 22 | JUL 22<br>JUL 10<br>JUN 13 | AUG 01<br>JUL 26<br>JUL 04 | JUL 30<br>AUG 02<br>AUG 16 | AUG 09<br>AUG 19<br>SEP 04 | AUG 19<br>SEP 06<br>SEP 22 | 34<br>68<br>113         | 17<br>39<br>82    | 0<br>11<br>51     | 79<br>68<br>56                    |  |
| ALBIN                     | 36<br>32<br>28                | MAY 15<br>MAY 03<br>APR 20 | MAY 28<br>MAY 18<br>MAY 07 | JUN 10<br>JUN 02<br>MAY 25 | SEP 03<br>SEP 10<br>SEP 18 | SEP 15<br>SEP 24<br>OCT 04 | SEP 28<br>OCT 08<br>OCT 20 | 126<br>150<br>175       | 110<br>128<br>149 | 94<br>106<br>123  | 57<br>49<br>39                    |  |
| ALTA 1 NNW                | 36<br>32<br>28                | JUN 24<br>JUN 11<br>MAY 09 | JUL 12<br>JUN 30<br>MAY 31 | JUL 30<br>JUL 20<br>JUN 22 | AUG 03<br>AUG 12<br>AUG 28 | AUG 21<br>AUG 30<br>SEP 13 | SEP 07<br>SEP 18<br>SEP 29 | 65<br>88<br>133         | 39<br>60<br>104   | 13<br>33<br>75    | 70<br>63<br>51                    |  |
| ALVA 5 SE                 | 36<br>32<br>28                | JUN 10<br>MAY 21<br>MAY 12 | JUN 29<br>JUN 13<br>MAY 26 | JUL 18<br>JUL 05<br>JUN 08 | AUG 07<br>AUG 15<br>SEP 01 | AUG 22<br>SEP 01<br>SEP 14 | SEP 06<br>SEP 18<br>SEP 27 | 77<br>107<br>129        | 53<br>80<br>111   | 29<br>52<br>92    | 67<br>59<br>50                    |  |
| ARCHER                    | 36<br>32<br>28                | MAY 22<br>MAY 09<br>APR 28 | JUN 06<br>MAY 24<br>MAY 12 | JUN 21<br>JUN 08<br>MAY 26 | AUG 26<br>SEP 09<br>SEP 17 | SEP 09<br>SEP 22<br>OCT 03 | SEP 24<br>OCT 05<br>OCT 18 | 117<br>143<br>165       | 94<br>120<br>143  | 72<br>98<br>121   | 59<br>51<br>42                    |  |
| BASIN                     | 36<br>32<br>28                | MAY 11<br>APR 26<br>APR 16 | MAY 28<br>MAY 13<br>APR 29 | JUN 14<br>MAY 30<br>MAY 12 | AUG 30<br>SEP 06<br>SEP 20 | SEP 11<br>SEP 21<br>OCT 02 | SEP 23<br>OCT 05<br>OCT 13 | 123<br>153<br>174       | 105<br>130<br>154 | 87<br>106<br>135  | 58<br>52<br>45                    |  |
| BONDURANT 3 NW            | 36<br>32<br>28                | JUL 28<br>JUL 25<br>JUL 08 | JUL 30<br>JUL 29<br>JUL 20 | AUG 01<br>AUG 01<br>JUL 31 | JUL 31<br>JUL 31<br>JUL 31 | AUG 02<br>AUG 03<br>AUG 07 | AUG 04<br>AUG 06<br>AUG 16 | 5<br>9<br>33            | 2<br>5<br>18      | 0<br>0<br>3       | 91<br>84<br>71                    |  |
| BORDER 3 N                | 36<br>32<br>28                | JUL 04<br>JUN 07<br>MAY 18 | JUL 18<br>JUL 01<br>JUN 14 | JUL 31<br>JUL 25<br>JUL 10 | JUL 29<br>AUG 06<br>AUG 18 | AUG 08<br>AUG 20<br>SEP 01 | AUG 18<br>SEP 04<br>SEP 16 | 39<br>83<br>115         | 20<br>50<br>79    | 1<br>16<br>44     | 78<br>69<br>59                    |  |
| BOYSEN DAM                | 36<br>32<br>28                | MAY 03<br>APR 18<br>APR 04 | MAY 17<br>MAY 05<br>APR 20 | JUN 01<br>MAY 23<br>MAY 07 | SEP 12<br>SEP 19<br>OCT 07 | SEP 27<br>OCT 08<br>OCT 23 | OCT 12<br>OCT 28<br>NOV 07 | 154<br>185<br>204       | 132<br>155<br>184 | 110<br>125<br>165 | 52<br>44<br>37                    |  |
| BUFFALO BILL DAM          | 36<br>32<br>28                | MAY 04<br>APR 21<br>APR 05 | MAY 20<br>MAY 05<br>APR 21 | JUN 05<br>MAY 18<br>MAY 07 | SEP 10<br>SEP 19<br>OCT 01 | SEP 26<br>OCT 08<br>OCT 22 | OCT 12<br>OCT 27<br>NOV 13 | 153<br>179<br>211       | 128<br>156<br>184 | 104<br>133<br>157 | 44<br>34<br>26                    |  |
| CARPENTER 3 E             | 36<br>32<br>28                | MAY 18<br>MAY 07<br>APR 26 | JUN 04<br>MAY 20<br>MAY 11 | JUN 22<br>JUN 02<br>MAY 26 | AUG 29<br>SEP 10<br>SEP 16 | SEP 12<br>SEP 24<br>SEP 30 | SEP 25<br>OCT 07<br>OCT 13 | 120<br>146<br>164       | 99<br>126<br>141  | 77<br>106<br>118  | 59<br>51<br>42                    |  |
| CASPER 2 E                | 36<br>32<br>28                | MAY 16<br>MAY 02<br>APR 21 | JUN 08<br>MAY 19<br>MAY 06 | JUL 01<br>JUN 05<br>MAY 21 | AUG 30<br>SEP 03<br>SEP 17 | SEP 11<br>SEP 19<br>SEP 30 | SEP 23<br>OCT 04<br>OCT 13 | 121<br>143<br>165       | 95<br>121<br>146  | 68<br>100<br>128  | 54<br>45<br>36                    |  |
| CASPER WSO                | 36<br>32<br>28                | MAY 16<br>MAY 04<br>APR 18 | JUN 03<br>MAY 22<br>MAY 06 | JUN 20<br>JUN 08<br>MAY 23 | AUG 28<br>SEP 07<br>SEP 18 | SEP 11<br>SEP 22<br>OCT 05 | SEP 24<br>OCT 07<br>OCT 21 | 123<br>146<br>175       | 99<br>123<br>151  | 76<br>100<br>127  | 58<br>49<br>40                    |  |
| CHUGWATER                 | 36<br>32<br>28                | MAY 31<br>MAY 16<br>MAY 02 | JUN 19<br>JUN 03<br>MAY 16 | JUL 09<br>JUN 20<br>MAY 30 | AUG 12<br>AUG 29<br>SEP 04 | AUG 29<br>SEP 10<br>SEP 19 | SEP 14<br>SEP 22<br>OCT 03 | 98<br>123<br>145        | 70<br>99<br>125   | 42<br>75<br>104   | 61<br>52<br>41                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD         |                   |                  | FREEZE/FROST<br>PROBABILITY (%) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|------------------|-----------------------------------|--|
|                           |                               | *<br>PROBABILITY LEVEL (1) |                            |                            | *<br>PROBABILITY LEVEL (2) |                            |                            | *<br>PROBABILITY LEVEL (3) |                   |                  |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                         | 50                | 90               |                                   |  |
| WYOMING                   |                               |                            |                            |                            |                            |                            |                            |                            |                   |                  |                                   |  |
| CODY                      | 36<br>32<br>28                | MAY 13<br>MAY 02<br>APR 19 | JUN 02<br>MAY 18<br>MAY 03 | JUN 23<br>JUN 03<br>MAY 16 | AUG 29<br>SEP 07<br>SEP 13 | SEP 12<br>SEP 21<br>SEP 30 | SEP 27<br>OCT 05<br>OCT 16 | 125<br>148<br>171          | 101<br>125<br>150 | 78<br>102<br>128 | 55<br>47<br>38                    |  |
| COLONY                    | 36<br>32<br>28                | MAY 06<br>APR 25<br>APR 16 | MAY 25<br>MAY 12<br>MAY 01 | JUN 13<br>MAY 30<br>MAY 16 | SEP 04<br>SEP 11<br>SEP 23 | SEP 17<br>SEP 26<br>OCT 10 | OCT 01<br>OCT 10<br>OCT 27 | 138<br>156<br>182          | 115<br>136<br>161 | 92<br>116<br>141 | 53<br>46<br>38                    |  |
| CRANDALL CREEK            | 36<br>32<br>28                | JUL 11<br>JUN 20<br>MAY 22 | JUL 22<br>JUL 08<br>JUN 15 | AUG 03<br>JUL 27<br>JUL 09 | JUL 31<br>AUG 05<br>AUG 18 | AUG 06<br>AUG 18<br>SEP 06 | AUG 14<br>AUG 31<br>SEP 25 | 28<br>64<br>82             | 15<br>40<br>49    | 1<br>15<br>49    | 83<br>72<br>61                    |  |
| DEAVER                    | 36<br>32<br>28                | MAY 19<br>MAY 07<br>APR 23 | JUN 06<br>MAY 22<br>MAY 08 | JUN 24<br>JUN 06<br>MAY 24 | AUG 24<br>SEP 03<br>SEP 10 | SEP 07<br>SEP 17<br>SEP 24 | SEP 20<br>SEP 30<br>OCT 07 | 118<br>136<br>160          | 92<br>117<br>138  | 67<br>97<br>115  | 61<br>55<br>48                    |  |
| DILLINGER                 | 36<br>32<br>28                | MAY 23<br>MAY 10<br>APR 28 | JUN 13<br>MAY 29<br>MAY 14 | JUL 03<br>JUN 16<br>MAY 29 | AUG 17<br>AUG 30<br>SEP 08 | SEP 02<br>SEP 14<br>SEP 22 | SEP 17<br>SEP 28<br>OCT 07 | 104<br>129<br>150          | 80<br>107<br>131  | 56<br>85<br>111  | 62<br>55<br>48                    |  |
| DIVERSION DAM             | 36<br>32<br>28                | MAY 25<br>MAY 08<br>APR 24 | JUN 10<br>MAY 25<br>MAY 10 | JUN 26<br>JUN 11<br>MAY 25 | AUG 21<br>AUG 31<br>SEP 10 | SEP 04<br>SEP 15<br>SEP 26 | SEP 18<br>OCT 01<br>OCT 11 | 111<br>137<br>161          | 85<br>113<br>138  | 59<br>88<br>116  | 61<br>53<br>45                    |  |
| DIXON                     | 36<br>32<br>28                | JUN 10<br>MAY 27<br>MAY 09 | JUN 26<br>JUN 13<br>MAY 27 | JUL 13<br>JUN 29<br>JUN 14 | AUG 12<br>AUG 23<br>AUG 30 | AUG 27<br>SEP 05<br>SEP 14 | SEP 11<br>SEP 18<br>SEP 28 | 85<br>105<br>132           | 61<br>84<br>109   | 37<br>62<br>86   | 69<br>61<br>52                    |  |
| DULL CENTER 1 SE          | 36<br>32<br>28                | MAY 13<br>MAY 03<br>APR 20 | MAY 29<br>MAY 17<br>MAY 04 | JUN 13<br>MAY 31<br>MAY 17 | AUG 29<br>SEP 06<br>SEP 16 | SEP 10<br>SEP 18<br>SEP 29 | SEP 22<br>SEP 30<br>OCT 13 | 123<br>140<br>168          | 103<br>124<br>148 | 83<br>107<br>128 | 57<br>50<br>41                    |  |
| ELK MOUNTAIN              | 36<br>32<br>28                | JUN 14<br>MAY 27<br>MAY 15 | JUL 04<br>JUN 14<br>JUN 01 | JUL 23<br>JUL 02<br>JUN 17 | AUG 05<br>AUG 21<br>AUG 30 | AUG 19<br>SEP 03<br>SEP 13 | SEP 02<br>SEP 17<br>SEP 27 | 72<br>106<br>128           | 46<br>81<br>104   | 20<br>56<br>80   | 68<br>58<br>47                    |  |
| ENCAMPMENT 10 ESE         | 36<br>32<br>28                | JUN 20<br>MAY 22<br>MAY 09 | JUL 06<br>JUN 08<br>MAY 29 | JUL 22<br>JUN 26<br>JUN 18 | AUG 08<br>AUG 20<br>SEP 01 | AUG 24<br>SEP 08<br>SEP 16 | SEP 10<br>SEP 27<br>OCT 01 | 73<br>120<br>133           | 49<br>91<br>110   | 24<br>62<br>86   | 68<br>59<br>49                    |  |
| EVANSTON 1 E              | 36<br>32<br>28                | JUN 24<br>JUN 09<br>MAY 19 | JUL 10<br>JUN 28<br>JUN 10 | JUL 25<br>JUL 17<br>JUL 02 | AUG 03<br>AUG 09<br>AUG 22 | AUG 18<br>AUG 26<br>SEP 06 | SEP 02<br>SEP 12<br>SEP 25 | 63<br>82<br>117            | 39<br>58<br>89    | 15<br>35<br>61   | 75<br>66<br>56                    |  |
| FARSON                    | 36<br>32<br>28                | JUL 01<br>JUN 15<br>MAY 16 | JUL 14<br>JUN 29<br>JUN 09 | JUL 28<br>JUL 13<br>JUL 02 | AUG 01<br>AUG 08<br>AUG 21 | AUG 13<br>AUG 25<br>SEP 03 | AUG 26<br>SEP 10<br>SEP 15 | 49<br>78<br>116            | 30<br>56<br>85    | 11<br>33<br>55   | 76<br>68<br>61                    |  |
| GILLETTE 2 E              | 36<br>32<br>28                | MAY 14<br>MAY 04<br>APR 18 | JUN 05<br>MAY 19<br>MAY 05 | JUN 26<br>JUN 02<br>MAY 22 | AUG 29<br>SEP 03<br>SEP 13 | SEP 10<br>SEP 20<br>OCT 01 | SEP 22<br>OCT 07<br>OCT 19 | 121<br>145<br>172          | 97<br>124<br>149  | 73<br>103<br>125 | 57<br>50<br>41                    |  |
| GILLETTE 18 SW            | 36<br>32<br>28                | MAY 22<br>MAY 12<br>APR 26 | JUN 11<br>MAY 27<br>MAY 11 | JUL 01<br>JUN 10<br>MAY 26 | AUG 26<br>AUG 31<br>SEP 10 | SEP 05<br>SEP 16<br>SEP 27 | SEP 14<br>OCT 03<br>OCT 14 | 107<br>134<br>160          | 85<br>112<br>139  | 63<br>90<br>117  | 59<br>51<br>42                    |  |
| GLENROCK 5 ESE            | 36<br>32<br>28                | MAY 15<br>APR 30<br>APR 16 | MAY 31<br>MAY 15<br>MAY 02 | JUN 15<br>MAY 31<br>MAY 17 | AUG 29<br>SEP 04<br>SEP 18 | SEP 12<br>SEP 19<br>OCT 01 | SEP 26<br>OCT 03<br>OCT 15 | 124<br>145<br>175          | 103<br>125<br>152 | 83<br>106<br>130 | 54<br>45<br>36                    |  |
| GREEN RIVER               | 36<br>32<br>28                | JUN 08<br>MAY 12<br>MAY 02 | JUN 23<br>JUN 02<br>MAY 19 | JUL 08<br>JUN 22<br>JUN 06 | AUG 14<br>AUG 19<br>SEP 07 | AUG 28<br>SEP 07<br>SEP 20 | SEP 11<br>SEP 27<br>OCT 03 | 87<br>128<br>144           | 66<br>97<br>123   | 44<br>66<br>102  | 67<br>59<br>51                    |  |
| HEART MOUNTAIN            | 36<br>32<br>28                | MAY 16<br>MAY 03<br>APR 26 | JUN 07<br>MAY 19<br>MAY 09 | JUN 29<br>JUN 04<br>MAY 22 | AUG 22<br>SEP 02<br>SEP 11 | SEP 06<br>SEP 16<br>SEP 27 | SEP 21<br>SEP 30<br>OCT 14 | 120<br>141<br>163          | 91<br>119<br>141  | 61<br>97<br>119  | 59<br>52<br>44                    |  |

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- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                  | FREEZE/FROST<br>PROBABILITY *<br>(4) |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|------------------|--------------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) *    |                            |                            | PROBABILITY LEVEL (2) *    |                            |                            | PROBABILITY LEVEL (3) * |                   |                  |                                      |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90               |                                      |  |
| WYOMING                   |                               |                            |                            |                            |                            |                            |                            |                         |                   |                  |                                      |  |
| JACKSON                   | 36<br>32<br>28                | JUL 18<br>JUN 28<br>MAY 26 | JUL 26<br>JUL 13<br>JUN 21 | AUG 03<br>JUL 28<br>JUL 17 | JUL 31<br>JUL 31<br>AUG 10 | AUG 04<br>AUG 12<br>AUG 26 | AUG 09<br>AUG 24<br>SEP 11 | 17<br>50<br>99          | 8<br>29<br>65     | 0<br>7<br>32     | 81<br>69<br>57                       |  |
| KAYCEE                    | 36<br>32<br>28                | MAY 29<br>MAY 12<br>APR 27 | JUN 20<br>MAY 30<br>MAY 13 | JUL 12<br>JUN 17<br>MAY 29 | AUG 22<br>AUG 28<br>SEP 07 | SEP 02<br>SEP 11<br>SEP 22 | SEP 13<br>SEP 25<br>OCT 07 | 97<br>125<br>152        | 73<br>103<br>132  | 49<br>81<br>112  | 63<br>56<br>47                       |  |
| LAGRANGE                  | 36<br>32<br>28                | MAY 17<br>MAY 09<br>APR 25 | JUN 03<br>MAY 21<br>MAY 10 | JUN 20<br>JUN 01<br>MAY 25 | AUG 18<br>SEP 02<br>SEP 16 | SEP 06<br>SEP 16<br>SEP 29 | SEP 25<br>SEP 29<br>OCT 12 | 122<br>134<br>163       | 94<br>117<br>141  | 66<br>101<br>119 | 59<br>51<br>41                       |  |
| LANDER WSO                | 36<br>32<br>28                | MAY 20<br>MAY 08<br>APR 21 | JUN 04<br>MAY 22<br>MAY 06 | JUN 20<br>JUN 06<br>MAY 21 | AUG 30<br>SEP 09<br>SEP 19 | SEP 14<br>SEP 24<br>OCT 05 | SEP 28<br>OCT 10<br>OCT 21 | 122<br>144<br>172       | 101<br>124<br>151 | 79<br>104<br>130 | 58<br>51<br>43                       |  |
| LARAMIE FAA AIRPORT       | 36<br>32<br>28                | JUN 07<br>MAY 22<br>MAY 09 | JUN 22<br>JUN 09<br>MAY 23 | JUL 08<br>JUN 26<br>JUN 06 | AUG 14<br>AUG 26<br>SEP 07 | AUG 29<br>SEP 10<br>SEP 21 | SEP 13<br>SEP 24<br>OCT 05 | 88<br>117<br>139        | 67<br>92<br>121   | 47<br>68<br>102  | 68<br>60<br>51                       |  |
| LOVELL                    | 36<br>32<br>28                | MAY 13<br>APR 30<br>APR 19 | MAY 29<br>MAY 17<br>APR 30 | JUN 13<br>JUN 03<br>MAY 11 | AUG 27<br>SEP 04<br>SEP 16 | SEP 11<br>SEP 18<br>OCT 01 | SEP 25<br>OCT 01<br>OCT 16 | 125<br>146<br>171       | 104<br>123<br>153 | 83<br>100<br>135 | 60<br>53<br>45                       |  |
| MEDICINE BOW              | 36<br>32<br>28                | JUN 12<br>MAY 20<br>MAY 06 | JUN 27<br>JUN 08<br>MAY 23 | JUL 13<br>JUN 26<br>JUN 09 | AUG 09<br>AUG 21<br>AUG 31 | AUG 24<br>SEP 04<br>SEP 13 | SEP 08<br>SEP 17<br>SEP 25 | 76<br>112<br>133        | 57<br>87<br>112   | 38<br>62<br>92   | 70<br>62<br>51                       |  |
| MIDWEST 1 SW              | 36<br>32<br>28                | MAY 17<br>APR 30<br>APR 19 | JUN 03<br>MAY 16<br>MAY 06 | JUN 19<br>JUN 01<br>MAY 22 | AUG 27<br>SEP 05<br>SEP 15 | SEP 08<br>SEP 20<br>SEP 30 | SEP 19<br>OCT 05<br>OCT 16 | 118<br>145<br>169       | 96<br>127<br>147  | 75<br>108<br>124 | 58<br>50<br>40                       |  |
| MOORCROFT                 | 36<br>32<br>28                | MAY 18<br>MAY 02<br>APR 17 | JUN 03<br>MAY 19<br>MAY 03 | JUN 20<br>JUN 06<br>MAY 16 | AUG 26<br>SEP 07<br>SEP 15 | SEP 10<br>SEP 21<br>SEP 30 | SEP 26<br>OCT 05<br>OCT 15 | 123<br>144<br>166       | 98<br>124<br>150  | 73<br>104<br>133 | 58<br>51<br>43                       |  |
| MORAN 5 WNW               | 36<br>32<br>28                | JUL 04<br>JUN 10<br>MAY 16 | JUL 18<br>JUL 03<br>JUN 10 | AUG 01<br>JUL 26<br>JUL 04 | JUL 31<br>AUG 05<br>AUG 21 | AUG 09<br>AUG 21<br>SEP 07 | AUG 19<br>SEP 05<br>SEP 24 | 39<br>81<br>120         | 21<br>48<br>89    | 3<br>15<br>57    | 79<br>70<br>59                       |  |
| NEWCASTLE                 | 36<br>32<br>28                | MAY 11<br>APR 29<br>APR 17 | MAY 28<br>MAY 15<br>MAY 01 | JUN 15<br>MAY 30<br>MAY 15 | AUG 29<br>SEP 08<br>SEP 23 | SEP 15<br>SEP 25<br>OCT 07 | OCT 02<br>OCT 12<br>OCT 21 | 133<br>156<br>177       | 109<br>133<br>159 | 85<br>109<br>140 | 54<br>48<br>40                       |  |
| PATHFINDER DAM            | 36<br>32<br>28                | MAY 15<br>MAY 05<br>APR 19 | JUN 02<br>MAY 22<br>MAY 09 | JUN 19<br>JUN 07<br>MAY 29 | SEP 02<br>SEP 07<br>SEP 12 | SEP 15<br>SEP 22<br>OCT 02 | SEP 28<br>OCT 07<br>OCT 21 | 126<br>147<br>170       | 104<br>122<br>145 | 83<br>98<br>119  | 58<br>50<br>40                       |  |
| PAVILLION                 | 36<br>32<br>28                | MAY 17<br>MAY 02<br>APR 20 | JUN 02<br>MAY 18<br>MAY 05 | JUN 19<br>JUN 04<br>MAY 20 | AUG 28<br>SEP 07<br>SEP 17 | SEP 12<br>SEP 22<br>OCT 04 | SEP 26<br>OCT 07<br>OCT 21 | 122<br>145<br>174       | 101<br>126<br>151 | 80<br>106<br>128 | 58<br>52<br>43                       |  |
| PHILLIPS                  | 36<br>32<br>28                | MAY 19<br>MAY 04<br>APR 23 | JUN 04<br>MAY 19<br>MAY 09 | JUN 20<br>JUN 02<br>MAY 25 | AUG 24<br>SEP 01<br>SEP 14 | SEP 09<br>SEP 16<br>SEP 28 | SEP 24<br>SEP 30<br>OCT 13 | 118<br>140<br>164       | 96<br>119<br>142  | 73<br>99<br>119  | 56<br>47<br>37                       |  |
| POWELL                    | 36<br>32<br>28                | MAY 08<br>APR 23<br>APR 13 | MAY 25<br>MAY 10<br>APR 27 | JUN 10<br>MAY 26<br>MAY 11 | SEP 03<br>SEP 10<br>SEP 20 | SEP 18<br>SEP 26<br>OCT 07 | OCT 03<br>OCT 11<br>OCT 24 | 137<br>162<br>185       | 116<br>138<br>162 | 95<br>115<br>139 | 55<br>48<br>40                       |  |
| REDBIRD 1 NW              | 36<br>32<br>28                | MAY 17<br>MAY 10<br>APR 23 | JUN 03<br>MAY 23<br>MAY 09 | JUN 21<br>JUN 06<br>MAY 24 | AUG 24<br>AUG 31<br>SEP 12 | SEP 08<br>SEP 16<br>SEP 25 | SEP 23<br>OCT 01<br>OCT 09 | 119<br>133<br>155       | 96<br>115<br>139  | 74<br>96<br>122  | 58<br>51<br>44                       |  |
| RIVERTON                  | 36<br>32<br>28                | MAY 23<br>MAY 07<br>APR 26 | JUN 10<br>MAY 23<br>MAY 10 | JUN 28<br>JUN 08<br>MAY 24 | AUG 20<br>SEP 02<br>SEP 13 | SEP 01<br>SEP 14<br>SEP 25 | SEP 13<br>SEP 26<br>OCT 08 | 109<br>133<br>156       | 83<br>113<br>137  | 56<br>94<br>118  | 63<br>57<br>50                       |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE/FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD    |                   |                  | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------|-------------------|------------------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1)      |                            |                            | PROBABILITY LEVEL (2)      |                            |                            | PROBABILITY LEVEL (3) |                   |                  |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                    | 50                | 90               |                                   |  |
| WYOMING                   |                               |                            |                            |                            |                            |                            |                            |                       |                   |                  |                                   |  |
| ROCHELLE 3 E              | 36<br>32<br>28                | MAY 17<br>MAY 11<br>APR 23 | JUN 08<br>MAY 29<br>MAY 12 | JUN 30<br>JUN 15<br>MAY 31 | AUG 13<br>AUG 30<br>SEP 06 | SEP 01<br>SEP 11<br>SEP 20 | SEP 19<br>SEP 23<br>OCT 03 | 111<br>125<br>151     | 84<br>105<br>130  | 56<br>84<br>109  | 63<br>56<br>45                    |  |
| ROCK SPRINGS              | 36<br>32<br>28                | MAY 26<br>MAY 08<br>APR 25 | JUN 12<br>MAY 25<br>MAY 13 | JUN 29<br>JUN 11<br>MAY 30 | AUG 23<br>SEP 01<br>SEP 11 | SEP 05<br>SEP 16<br>SEP 26 | SEP 17<br>OCT 01<br>OCT 12 | 109<br>140<br>162     | 84<br>113<br>136  | 59<br>86<br>110  | 62<br>54<br>44                    |  |
| SARATOGA                  | 36<br>32<br>28                | JUN 10<br>MAY 24<br>MAY 07 | JUN 08<br>MAY 22<br>MAY 22 | JUL 10<br>JUN 23<br>JUN 07 | AUG 13<br>AUG 24<br>SEP 05 | AUG 28<br>SEP 08<br>SEP 19 | SEP 12<br>SEP 23<br>OCT 03 | 85<br>114<br>140      | 64<br>91<br>119   | 43<br>68<br>98   | 66<br>58<br>49                    |  |
| SEMINOE DAM               | 36<br>32<br>28                | MAY 23<br>MAY 15<br>APR 30 | JUN 11<br>MAY 28<br>MAY 13 | JUN 30<br>JUN 11<br>MAY 26 | AUG 27<br>SEP 08<br>SEP 14 | SEP 11<br>SEP 22<br>OCT 01 | SEP 25<br>OCT 06<br>OCT 17 | 115<br>137<br>162     | 91<br>116<br>140  | 66<br>95<br>118  | 60<br>52<br>43                    |  |
| SHERIDAN WSO              | 36<br>32<br>28                | MAY 18<br>MAY 02<br>APR 20 | JUN 08<br>MAY 20<br>MAY 04 | JUN 29<br>JUN 06<br>MAY 19 | AUG 29<br>SEP 07<br>SEP 15 | SEP 10<br>SEP 20<br>OCT 01 | SEP 23<br>OCT 04<br>OCT 18 | 117<br>143<br>170     | 93<br>123<br>150  | 70<br>102<br>129 | 59<br>51<br>42                    |  |
| SHERIDAN FIELD STA        | 36<br>32<br>28                | MAY 19<br>APR 29<br>APR 17 | JUN 16<br>MAY 27<br>MAY 11 | JUL 13<br>JUN 24<br>JUN 04 | AUG 24<br>AUG 29<br>SEP 09 | SEP 08<br>SEP 15<br>SEP 26 | SEP 23<br>OCT 02<br>OCT 12 | 111<br>143<br>164     | 84<br>110<br>137  | 56<br>77<br>110  | 61<br>54<br>46                    |  |
| SUNDANCE                  | 36<br>32<br>28                | MAY 21<br>MAY 12<br>APR 22 | JUN 07<br>MAY 27<br>MAY 08 | JUN 23<br>JUN 12<br>MAY 23 | AUG 24<br>SEP 01<br>SEP 16 | SEP 09<br>SEP 16<br>OCT 02 | SEP 24<br>OCT 01<br>OCT 17 | 116<br>133<br>167     | 93<br>111<br>146  | 70<br>90<br>125  | 58<br>51<br>42                    |  |
| THERMOPOLIS               | 36<br>32<br>28                | MAY 15<br>MAY 05<br>APR 20 | JUN 06<br>MAY 25<br>MAY 05 | JUN 29<br>JUN 15<br>MAY 21 | AUG 21<br>SEP 05<br>SEP 14 | SEP 06<br>SEP 20<br>SEP 29 | SEP 21<br>OCT 04<br>OCT 13 | 119<br>143<br>168     | 90<br>117<br>145  | 62<br>90<br>122  | 60<br>52<br>44                    |  |
| TORRINGTON EXP FARM       | 36<br>32<br>28                | MAY 14<br>MAY 03<br>APR 21 | MAY 26<br>MAY 17<br>MAY 02 | JUN 08<br>MAY 31<br>MAY 13 | AUG 30<br>SEP 03<br>SEP 16 | SEP 11<br>SEP 17<br>SEP 27 | SEP 23<br>OCT 01<br>OCT 08 | 123<br>141<br>163     | 107<br>122<br>147 | 91<br>103<br>131 | 58<br>51<br>42                    |  |
| UPTON                     | 36<br>32<br>28                | MAY 22<br>MAY 10<br>APR 27 | JUN 11<br>JUN 01<br>MAY 14 | JUN 30<br>JUN 24<br>MAY 30 | AUG 23<br>AUG 29<br>SEP 08 | SEP 05<br>SEP 14<br>SEP 23 | SEP 19<br>SEP 30<br>OCT 08 | 108<br>131<br>153     | 86<br>104<br>132  | 64<br>77<br>110  | 62<br>56<br>48                    |  |
| WHALEN DAM                | 36<br>32<br>28                | MAY 11<br>APR 27<br>APR 18 | MAY 25<br>MAY 13<br>APR 29 | JUN 08<br>MAY 28<br>MAY 10 | SEP 02<br>SEP 10<br>SEP 18 | SEP 14<br>SEP 23<br>OCT 02 | SEP 26<br>OCT 05<br>OCT 15 | 130<br>151<br>172     | 112<br>132<br>155 | 94<br>114<br>138 | 57<br>50<br>42                    |  |
| WHEATLAND 4 N             | 36<br>32<br>28                | MAY 13<br>MAY 02<br>APR 13 | MAY 29<br>MAY 16<br>APR 30 | JUN 14<br>MAY 29<br>MAY 17 | SEP 02<br>SEP 05<br>SEP 15 | SEP 13<br>SEP 20<br>OCT 01 | SEP 24<br>OCT 05<br>OCT 17 | 127<br>148<br>176     | 107<br>127<br>153 | 87<br>105<br>130 | 52<br>44<br>35                    |  |
| WORLAND                   | 36<br>32<br>28                | MAY 03<br>APR 25<br>APR 16 | MAY 26<br>MAY 11<br>APR 29 | JUN 18<br>MAY 26<br>MAY 12 | AUG 28<br>SEP 03<br>SEP 14 | SEP 10<br>SEP 18<br>OCT 01 | SEP 22<br>OCT 04<br>OCT 17 | 132<br>154<br>177     | 106<br>130<br>154 | 80<br>106<br>131 | 60<br>53<br>46                    |  |
| YELLOWSTONE PARK          | 36<br>32<br>28                | JUN 15<br>MAY 22<br>MAY 02 | JUL 05<br>JUN 15<br>MAY 28 | JUL 25<br>JUL 09<br>JUN 24 | AUG 09<br>AUG 20<br>AUG 29 | AUG 23<br>SEP 06<br>SEP 16 | SEP 07<br>SEP 22<br>OCT 05 | 73<br>115<br>147      | 49<br>82<br>111   | 25<br>48<br>74   | 69<br>59<br>48                    |  |
| YODER                     | 36<br>32<br>28                | MAY 18<br>MAY 07<br>APR 27 | JUN 03<br>MAY 19<br>MAY 10 | JUN 20<br>JUN 01<br>MAY 24 | AUG 23<br>SEP 02<br>SEP 12 | SEP 05<br>SEP 16<br>SEP 26 | SEP 18<br>SEP 30<br>OCT 10 | 117<br>138<br>157     | 93<br>119<br>138  | 70<br>101<br>119 | 59<br>51<br>41                    |  |
| ALASKA                    |                               |                            |                            |                            |                            |                            |                            |                       |                   |                  |                                   |  |
| ADAK                      | 36<br>32<br>28                | MAY 14<br>APR 20<br>MAR 24 | JUN 07<br>MAY 13<br>APR 15 | JUN 30<br>JUN 04<br>MAY 06 | SEP 05<br>OCT 04<br>OCT 21 | SEP 28<br>OCT 20<br>NOV 12 | OCT 21<br>NOV 04<br>DEC 05 | 145<br>189<br>246     | 113<br>159<br>211 | 81<br>130<br>177 | 53<br>31<br>14                    |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)              |                            |                            | FALL (DATE)                |                            |                            | FREEZE FREE PERIOD      |                   |                   | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------------|-------------------|-----------------------------------|--|
|                           |                               | * PROBABILITY LEVEL (1)    |                            |                            | * PROBABILITY LEVEL (2)    |                            |                            | * PROBABILITY LEVEL (3) |                   |                   |                                   |  |
|                           |                               | 90                         | 50                         | 10                         | 10                         | 50                         | 90                         | 10                      | 50                | 90                |                                   |  |
| ALASKA                    |                               |                            |                            |                            |                            |                            |                            |                         |                   |                   |                                   |  |
| ANNETTE WSO AP            | 36<br>32<br>28                | APR 26<br>MAR 29<br>MAR 02 | MAY 09<br>APR 17<br>MAR 21 | MAY 23<br>MAY 06<br>APR 09 | SEP 28<br>OCT 16<br>OCT 25 | OCT 13<br>NOV 02<br>NOV 18 | OCT 28<br>NOV 19<br>DEC 12 | 179<br>229<br>275       | 156<br>198<br>242 | 133<br>168<br>209 | 36<br>21<br>11                    |  |
| ANNEC CREEK               | 36<br>32<br>28                | MAY 09<br>APR 17<br>MAR 23 | JUN 04<br>MAY 13<br>APR 15 | JUN 30<br>JUN 07<br>MAY 08 | AUG 20<br>SEP 13<br>OCT 04 | SEP 13<br>OCT 07<br>OCT 28 | OCT 07<br>NOV 01<br>NOV 21 | 140<br>190<br>234       | 100<br>147<br>195 | 61<br>104<br>156  | 56<br>41<br>27                    |  |
| BARROW WSO AP             | 36<br>32<br>28                | JUL 26<br>JUL 20<br>JUN 18 | JUL 30<br>JUL 28<br>JUL 07 | AUG 03<br>AUG 04<br>JUL 26 | JUL 30<br>JUL 24<br>AUG 01 | AUG 03<br>AUG 09<br>AUG 23 | AUG 07<br>AUG 25<br>SEP 13 | 10<br>32<br>76          | 3<br>0<br>46      | 0<br>16           | 96<br>88<br>75                    |  |
| BARTER ISLAND WSO AP      | 36<br>32<br>28                | JUL 22<br>JUL 09<br>JUN 10 | JUL 29<br>JUL 23<br>JUL 03 | AUG 06<br>AUG 05<br>JUL 27 | JUL 30<br>JUL 28<br>AUG 05 | AUG 03<br>AUG 12<br>AUG 25 | AUG 09<br>AUG 29<br>SEP 14 | 17<br>44<br>88          | 4<br>20<br>52     | 0<br>16           | 95<br>86<br>73                    |  |
| BEAVER FALLS              | 36<br>32<br>28                | MAY 04<br>APR 10<br>MAR 04 | MAY 18<br>APR 26<br>APR 15 | JUN 02<br>MAY 12<br>APR 25 | SEP 29<br>OCT 08<br>OCT 20 | OCT 13<br>OCT 28<br>NOV 16 | OCT 26<br>NOV 17<br>DEC 13 | 167<br>212<br>269       | 147<br>184<br>235 | 127<br>157<br>202 | 45<br>29<br>13                    |  |
| BETHEL WSO AP             | 36<br>32<br>28                | MAY 24<br>MAY 11<br>MAY 05 | JUN 13<br>JUN 01<br>MAY 17 | JUL 03<br>JUN 21<br>MAY 29 | AUG 19<br>SEP 05<br>SEP 14 | SEP 03<br>SEP 17<br>SEP 26 | SEP 19<br>SEP 28<br>OCT 07 | 108<br>131<br>146       | 81<br>107<br>131  | 54<br>83<br>115   | 69<br>62<br>54                    |  |
| BIG DELTA WSO AP          | 36<br>32<br>28                | MAY 15<br>MAY 05<br>APR 26 | MAY 31<br>MAY 20<br>MAY 07 | JUN 17<br>JUN 03<br>MAY 18 | AUG 13<br>AUG 25<br>SEP 01 | AUG 26<br>SEP 05<br>SEP 16 | SEP 08<br>SEP 16<br>OCT 01 | 109<br>127<br>150       | 86<br>108<br>131  | 63<br>89<br>112   | 66<br>61<br>55                    |  |
| COLLEGE OBSERVATORY       | 36<br>32<br>28                | MAY 21<br>MAY 11<br>MAY 02 | JUN 18<br>MAY 30<br>MAY 12 | JUL 16<br>JUN 17<br>MAY 22 | AUG 09<br>AUG 15<br>AUG 27 | AUG 23<br>AUG 31<br>SEP 12 | SEP 06<br>SEP 16<br>SEP 28 | 100<br>117<br>144       | 66<br>93<br>123   | 31<br>69<br>102   | 69<br>63<br>57                    |  |
| CORDOVA FAA AP            | 36<br>32<br>28                | MAY 26<br>MAY 12<br>APR 24 | JUN 18<br>MAY 25<br>MAY 08 | JUL 11<br>JUN 08<br>MAY 23 | AUG 13<br>AUG 27<br>SEP 16 | AUG 29<br>SEP 12<br>SEP 30 | SEP 14<br>SEP 27<br>OCT 15 | 103<br>131<br>167       | 71<br>109<br>144  | 39<br>86<br>121   | 61<br>48<br>36                    |  |
| EIELSON FIELD             | 36<br>32<br>28                | MAY 17<br>MAY 07<br>APR 25 | MAY 30<br>MAY 17<br>MAY 05 | JUN 11<br>MAY 26<br>MAY 15 | AUG 13<br>AUG 22<br>AUG 31 | AUG 26<br>SEP 03<br>SEP 14 | SEP 08<br>SEP 14<br>SEP 27 | 109<br>126<br>147       | 87<br>108<br>131  | 66<br>91<br>114   | 68<br>62<br>57                    |  |
| EKLUTNA PROJECT           | 36<br>32<br>28                | MAY 28<br>MAY 09<br>APR 24 | JUN 10<br>MAY 23<br>MAY 07 | JUN 23<br>JUN 05<br>MAY 19 | AUG 13<br>AUG 22<br>SEP 04 | AUG 26<br>SEP 06<br>SEP 19 | SEP 08<br>SEP 21<br>OCT 05 | 96<br>128<br>155        | 76<br>106<br>135  | 56<br>83<br>116   | 67<br>59<br>49                    |  |
| ELMENDORF A F BASE        | 36<br>32<br>28                | MAY 08<br>APR 23<br>APR 13 | MAY 19<br>MAY 04<br>MAY 23 | MAY 30<br>MAY 15<br>MAY 03 | AUG 29<br>SEP 10<br>SEP 24 | SEP 14<br>SEP 25<br>OCT 06 | SEP 29<br>OCT 10<br>OCT 18 | 133<br>162<br>180       | 117<br>143<br>165 | 101<br>125<br>150 | 60<br>53<br>45                    |  |
| FAIRBANKS WSO AP          | 36<br>32<br>28                | MAY 08<br>MAY 08<br>APR 24 | MAY 30<br>MAY 17<br>MAY 04 | JUN 21<br>MAY 25<br>MAY 15 | AUG 14<br>AUG 25<br>SEP 09 | AUG 27<br>SEP 06<br>SEP 20 | SEP 09<br>SEP 19<br>OCT 01 | 113<br>129<br>154       | 88<br>112<br>138  | 62<br>94<br>122   | 67<br>62<br>56                    |  |
| FIVE FINGER LIGHT STA     | 36<br>32<br>28                | APR 15<br>MAR 21<br>FEB 21 | MAY 10<br>APR 17<br>MAR 23 | JUN 04<br>MAY 13<br>APR 20 | SEP 10<br>SEP 26<br>OCT 27 | OCT 13<br>OCT 29<br>NOV 18 | NOV 16<br>NOV 30<br>DEC 12 | 202<br>234<br>287       | 156<br>194<br>239 | 109<br>154<br>201 | 39<br>22<br>12                    |  |
| GULKANA WSO               | 36<br>32<br>28                | JUN 03<br>MAY 21<br>MAY 06 | JUN 27<br>JUN 07<br>MAY 18 | JUL 21<br>AUG 09<br>AUG 18 | AUG 04<br>AUG 22<br>SEP 01 | AUG 14<br>SEP 04<br>SEP 16 | AUG 23<br>SEP 04<br>SEP 16 | 73<br>96<br>125         | 47<br>76<br>106   | 20<br>55<br>86    | 72<br>65<br>57                    |  |
| HOMER WSO                 | 36<br>32<br>28                | JUN 05<br>MAY 17<br>APR 25 | JUN 25<br>MAY 30<br>MAY 10 | JUL 15<br>JUN 12<br>MAY 24 | AUG 14<br>SEP 01<br>SEP 15 | AUG 29<br>SEP 17<br>SEP 30 | SEP 13<br>OCT 02<br>OCT 15 | 92<br>131<br>164        | 64<br>109<br>143  | 36<br>86<br>121   | 64<br>53<br>41                    |  |
| JUNEAU WSO AP             | 36<br>32<br>28                | MAY 18<br>MAY 02<br>APR 13 | JUN 03<br>MAY 16<br>APR 28 | JUN 20<br>MAY 30<br>MAY 12 | AUG 23<br>SEP 05<br>SEP 21 | SEP 08<br>SEP 26<br>OCT 15 | SEP 23<br>OCT 18<br>NOV 07 | 122<br>159<br>199       | 96<br>133<br>169  | 70<br>106<br>140  | 54<br>40<br>28                    |  |

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F.) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |     |     | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|--------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|-----|-----|-----------------------------------|--|
|                           |                                | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |     |     |                                   |  |
|                           |                                | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50  | 90  |                                   |  |
| ALASKA                    |                                |                         |        |        |                         |        |        |                         |     |     |                                   |  |
| KASILOF                   | 36                             | JUN 14                  | JUL 06 | JUL 29 | AUG 04                  | AUG 20 | SEP 06 | 74                      | 44  | 14  | 71                                |  |
|                           | 32                             | MAY 17                  | JUN 09 | JUL 01 | AUG 16                  | SEP 01 | SEP 17 | 116                     | 84  | 51  | 62                                |  |
|                           | 28                             | MAY 06                  | MAY 21 | JUN 04 | AUG 31                  | SEP 16 | OCT 02 | 141                     | 118 | 94  | 51                                |  |
| KENAI FAA MUNICIPAL AP    | 36                             | JUN 01                  | JUN 28 | JUL 25 | AUG 09                  | AUG 25 | SEP 10 | 92                      | 57  | 23  | 66                                |  |
|                           | 32                             | MAY 15                  | MAY 29 | JUN 12 | AUG 21                  | SEP 04 | SEP 18 | 119                     | 98  | 76  | 57                                |  |
|                           | 28                             | APR 24                  | MAY 09 | MAY 25 | SEP 08                  | SEP 24 | OCT 09 | 159                     | 137 | 115 | 47                                |  |
| KETCHIKAN                 | 36                             | MAY 02                  | MAY 15 | MAY 29 | SEP 25                  | OCT 10 | OCT 25 | 171                     | 147 | 123 | 40                                |  |
|                           | 32                             | APR 06                  | APR 24 | MAY 13 | OCT 05                  | OCT 25 | NOV 14 | 215                     | 183 | 152 | 24                                |  |
|                           | 28                             | MAR 04                  | MAR 28 | APR 20 | OCT 22                  | NOV 17 | DEC 13 | 270                     | 234 | 198 | 12                                |  |
| KING SALMON WSO AP        | 36                             | MAY 31                  | JUN 23 | JUL 16 | AUG 17                  | SEP 02 | SEP 19 | 98                      | 71  | 43  | 66                                |  |
|                           | 32                             | MAY 16                  | MAY 27 | JUN 08 | AUG 27                  | SEP 11 | SEP 25 | 126                     | 106 | 85  | 56                                |  |
|                           | 28                             | APR 30                  | MAY 12 | MAY 24 | SEP 10                  | SEP 26 | OCT 12 | 158                     | 136 | 115 | 46                                |  |
| KOTZEBUE WSO AP           | 36                             | JUN 11                  | JUN 26 | JUL 10 | AUG 17                  | SEP 02 | SEP 18 | 90                      | 68  | 46  | 75                                |  |
|                           | 32                             | JUN 02                  | JUN 13 | JUN 24 | SEP 04                  | SEP 15 | SEP 26 | 108                     | 93  | 78  | 69                                |  |
|                           | 28                             | MAY 21                  | JUN 01 | JUN 13 | SEP 13                  | SEP 23 | OCT 04 | 129                     | 113 | 98  | 62                                |  |
| LITTLE PORT WALTER        | 36                             | MAY 13                  | MAY 28 | JUN 11 | SEP 24                  | OCT 08 | OCT 21 | 153                     | 132 | 111 | 48                                |  |
|                           | 32                             | APR 23                  | MAY 08 | MAY 22 | OCT 03                  | OCT 25 | NOV 15 | 199                     | 169 | 139 | 30                                |  |
|                           | 28                             | FEB 28                  | MAR 26 | APR 21 | OCT 31                  | NOV 22 | DEC 15 | 273                     | 241 | 208 | 12                                |  |
| MATANUSKA AGR EXP ST1     | 36                             | MAY 27                  | JUN 06 | JUN 16 | AUG 15                  | AUG 27 | SEP 09 | 96                      | 82  | 67  | 64                                |  |
|                           | 32                             | MAY 14                  | MAY 23 | JUN 01 | AUG 25                  | SEP 09 | SEP 25 | 127                     | 109 | 91  | 57                                |  |
|                           | 28                             | APR 24                  | MAY 08 | MAY 22 | SEP 03                  | SEP 19 | OCT 05 | 153                     | 134 | 114 | 48                                |  |
| MCGRATH WSO AP            | 36                             | MAY 22                  | JUN 15 | JUL 10 | AUG 07                  | AUG 22 | SEP 05 | 97                      | 67  | 37  | 69                                |  |
|                           | 32                             | MAY 13                  | MAY 23 | JUN 02 | AUG 22                  | SEP 03 | SEP 16 | 121                     | 103 | 84  | 63                                |  |
|                           | 28                             | APR 30                  | MAY 10 | MAY 20 | SEP 01                  | SEP 17 | OCT 03 | 147                     | 129 | 111 | 56                                |  |
| MC KINLEY PARK            | 36                             | JUL 08                  | JUL 22 | AUG 06 | JUL 31                  | AUG 09 | AUG 18 | 36                      | 17  | 0   | 78                                |  |
|                           | 32                             | JUN 06                  | JUL 01 | JUL 26 | AUG 05                  | AUG 17 | AUG 29 | 80                      | 46  | 13  | 71                                |  |
|                           | 28                             | MAY 18                  | JUN 04 | JUN 20 | AUG 15                  | AUG 29 | SEP 12 | 110                     | 86  | 62  | 63                                |  |
| NOME WSO AP               | 36                             | JUN 21                  | JUL 08 | JUL 24 | AUG 02                  | AUG 18 | SEP 02 | 63                      | 40  | 17  | 73                                |  |
|                           | 32                             | MAY 26                  | JUN 16 | JUL 08 | AUG 17                  | SEP 03 | SEP 20 | 109                     | 78  | 46  | 66                                |  |
|                           | 28                             | MAY 10                  | MAY 24 | JUN 07 | AUG 27                  | SEP 13 | OCT 01 | 135                     | 112 | 88  | 58                                |  |
| NORTHWAY FAA AP           | 36                             | MAY 24                  | JUN 14 | JUL 06 | AUG 08                  | AUG 20 | SEP 01 | 89                      | 66  | 42  | 73                                |  |
|                           | 32                             | MAY 18                  | MAY 27 | JUN 06 | AUG 16                  | AUG 29 | SEP 10 | 109                     | 92  | 76  | 68                                |  |
|                           | 28                             | MAY 08                  | MAY 15 | MAY 21 | AUG 24                  | SEP 06 | SEP 18 | 126                     | 113 | 100 | 62                                |  |
| PALMER AAES               | 36                             | MAY 21                  | JUN 06 | JUN 22 | AUG 20                  | SEP 03 | SEP 16 | 108                     | 89  | 69  | 64                                |  |
|                           | 32                             | MAY 08                  | MAY 18 | MAY 28 | AUG 23                  | SEP 10 | SEP 28 | 137                     | 115 | 93  | 56                                |  |
|                           | 28                             | APR 23                  | MAY 04 | MAY 16 | SEP 04                  | SEP 23 | OCT 12 | 164                     | 141 | 119 | 47                                |  |
| PETERSBURG                | 36                             | MAY 21                  | JUN 04 | JUN 18 | AUG 26                  | SEP 14 | OCT 03 | 126                     | 101 | 76  | 52                                |  |
|                           | 32                             | APR 25                  | MAY 16 | JUN 05 | SEP 15                  | OCT 08 | OCT 31 | 181                     | 145 | 109 | 37                                |  |
|                           | 28                             | APR 03                  | APR 22 | MAY 11 | OCT 01                  | OCT 24 | NOV 15 | 218                     | 184 | 150 | 22                                |  |
| ST PAUL ISLAND WSO AP     | 36                             | JUN 19                  | JUL 07 | JUL 24 | AUG 12                  | SEP 01 | SEP 21 | 86                      | 56  | 25  | 68                                |  |
|                           | 32                             | MAY 29                  | JUN 18 | JUL 09 | AUG 29                  | SEP 17 | OCT 07 | 121                     | 90  | 59  | 53                                |  |
|                           | 28                             | MAY 07                  | MAY 28 | JUN 17 | SEP 20                  | OCT 06 | OCT 22 | 159                     | 131 | 103 | 36                                |  |
| SEWARD                    | 36                             | MAY 17                  | MAY 27 | JUN 06 | SEP 08                  | SEP 22 | OCT 07 | 138                     | 118 | 98  | 57                                |  |
|                           | 32                             | APR 27                  | MAY 07 | MAY 17 | SEP 23                  | OCT 05 | OCT 17 | 164                     | 150 | 136 | 43                                |  |
|                           | 28                             | APR 09                  | APR 21 | MAY 03 | OCT 05                  | OCT 20 | NOV 03 | 199                     | 181 | 163 | 30                                |  |
| SITKA FAA AIRPORT         | 36                             | APR 30                  | MAY 15 | MAY 29 | SEP 26                  | OCT 14 | NOV 01 | 177                     | 151 | 126 | 39                                |  |
|                           | 32                             | APR 05                  | APR 21 | MAY 07 | OCT 11                  | NOV 02 | NOV 24 | 223                     | 195 | 166 | 21                                |  |
|                           | 28                             | FEB 23                  | MAR 23 | APR 20 | OCT 29                  | NOV 23 | DEC 18 | 282                     | 245 | 208 | 11                                |  |
| SITKA MAGNETIC OBSY       | 36                             | MAY 23                  | JUN 07 | JUN 22 | SEP 03                  | SEP 19 | OCT 05 | 120                     | 104 | 87  | 52                                |  |
|                           | 32                             | MAY 08                  | MAY 20 | JUN 01 | SEP 20                  | OCT 07 | OCT 24 | 161                     | 139 | 117 | 37                                |  |
|                           | 28                             | APR 07                  | APR 25 | MAY 12 | OCT 05                  | OCT 31 | NOV 25 | 224                     | 188 | 152 | 20                                |  |

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# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP. THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |        |        | FALL (DATE)             |        |        | FREEZE FREE PERIOD      |      |      | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|--------------------------------|-------------------------|--------|--------|-------------------------|--------|--------|-------------------------|------|------|-----------------------------------|--|
|                           |                                | PROBABILITY LEVEL (1) * |        |        | PROBABILITY LEVEL (2) * |        |        | PROBABILITY LEVEL (3) * |      |      |                                   |  |
|                           |                                | 90                      | 50     | 10     | 10                      | 50     | 90     | 10                      | 50   | 90   |                                   |  |
| ALASKA                    |                                |                         |        |        |                         |        |        |                         |      |      |                                   |  |
| TALKEETNA WSO             | 36                             | MAY 28                  | JUN 12 | JUN 27 | AUG 14                  | AUG 26 | SEP 06 | 96                      | 74   | 51   | 69                                |  |
|                           | 32                             | MAY 21                  | MAY 28 | JUN 04 | AUG 21                  | SEP 05 | SEP 19 | 116                     | 99   | 82   | 62                                |  |
|                           | 28                             | MAY 06                  | MAY 15 | MAY 23 | AUG 30                  | SEP 18 | OCT 06 | 144                     | 125  | 106  | 53                                |  |
| TANANA WSO                | 36                             | JUN 02                  | JUL 02 | AUG 01 | AUG 01                  | AUG 14 | AUG 26 | 79                      | 42   | 4    | 71                                |  |
|                           | 32                             | MAY 10                  | JUN 06 | JUL 03 | AUG 10                  | AUG 24 | SEP 07 | 111                     | 78   | 46   | 66                                |  |
|                           | 28                             | MAY 07                  | MAY 19 | MAY 31 | AUG 20                  | SEP 02 | SEP 15 | 123                     | 106  | 89   | 60                                |  |
| UNIVERSITY EXP STATION    | 36                             | MAY 26                  | JUN 23 | JUL 21 | AUG 08                  | AUG 19 | AUG 30 | 88                      | 57   | 25   | 70                                |  |
|                           | 32                             | MAY 17                  | MAY 29 | JUN 10 | AUG 16                  | AUG 30 | SEP 13 | 113                     | 93   | 72   | 64                                |  |
|                           | 28                             | APR 30                  | MAY 14 | MAY 27 | AUG 27                  | SEP 10 | SEP 24 | 136                     | 118  | 101  | 58                                |  |
| WRANGELL                  | 36                             | APR 30                  | MAY 31 | JUL 02 | SEP 06                  | SEP 28 | OCT 20 | 165                     | 119  | 74   | 50                                |  |
|                           | 32                             | APR 05                  | MAY 05 | JUN 03 | SEP 26                  | OCT 16 | NOV 05 | 205                     | 164  | 122  | 31                                |  |
|                           | 28                             | MAR 11                  | APR 09 | MAY 07 | OCT 07                  | NOV 01 | NOV 26 | 243                     | 205  | 168  | 21                                |  |
| YAKUTAT WSO AP            | 36                             | MAY 27                  | JUN 13 | JUL 01 | AUG 17                  | AUG 31 | SEP 15 | 106                     | 78   | 50   | 60                                |  |
|                           | 32                             | MAY 12                  | MAY 27 | JUN 10 | AUG 30                  | SEP 16 | OCT 04 | 136                     | 112  | 88   | 46                                |  |
|                           | 28                             | APR 21                  | MAY 05 | MAY 20 | SEP 15                  | OCT 03 | OCT 21 | 178                     | 150  | 121  | 33                                |  |
| HAWAII                    |                                |                         |        |        |                         |        |        |                         |      |      |                                   |  |
| HALEAKALA RS 338          | 36                             | MAR 15                  | MAY 01 | JUN 16 | OCT 15                  | DEC 06 | FEB 02 | 307                     | 219  | 140  | 5                                 |  |
|                           | 32                             | -                       | JAN 16 | APR 20 | DEC 23                  | FEB 21 | -      | >365                    | >365 | 278  | 0                                 |  |
|                           | 28                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
| HAWAII VOLCNS NP HQ 54    | 36                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
| HILO WSO 87 AP            | 36                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
| KAINALIU 73.2             | 36                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
| KAMUELA 192.2             | 36                             | -                       | -      | JAN 26 | FEB 13                  | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
| KANEOHE MAUKA 781         | 36                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
| KOHALA MISSION 175.1      | 36                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
| KULA SANATORIUM 267       | 36                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
| LAHAINA 361               | 36                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
| LIHUE WSO 1020.1 AP       | 36                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
| MANA 1026                 | 36                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                             | -                       | -      | -      | -                       | -      | -      | >365                    | >365 | >365 | 0                                 |  |

\* IN PERCENT; ALSO, SEE NOTES AT THE BEGINNING OF PUBLICATION.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

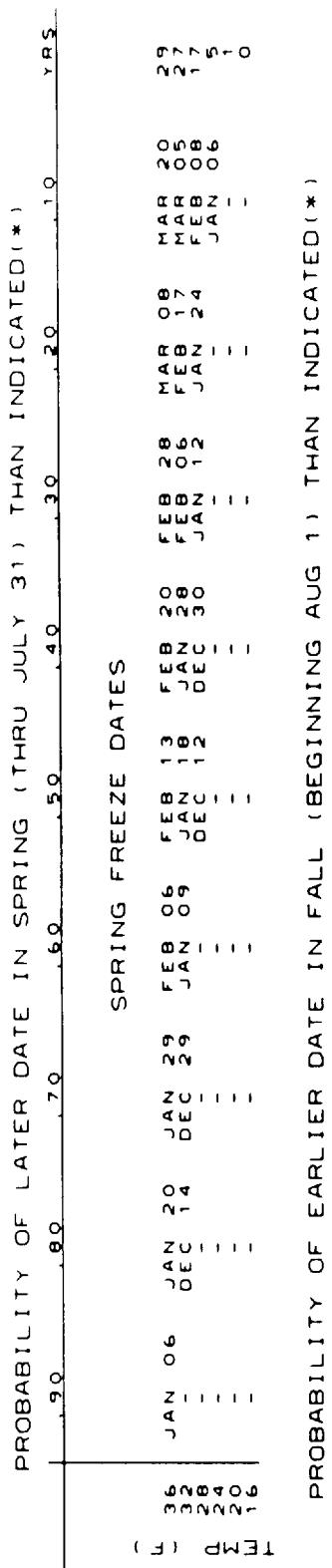
# FREEZE / FROST OCCURRENCE DATA

| STATE AND STATION<br>NAME | TEMP THRESHOLD<br>(DEGREES F) | SPRING (DATE)           |    |    | FALL (DATE)             |    |    | FREEZE FREE PERIOD      |      |      | FREEZE/FROST<br>PROBABILITY (4) * |  |
|---------------------------|-------------------------------|-------------------------|----|----|-------------------------|----|----|-------------------------|------|------|-----------------------------------|--|
|                           |                               | PROBABILITY LEVEL (1) * |    |    | PROBABILITY LEVEL (2) * |    |    | PROBABILITY LEVEL (3) * |      |      |                                   |  |
|                           |                               | 90                      | 50 | 10 | 10                      | 50 | 90 | 10                      | 50   | 90   |                                   |  |
| HAWAII                    |                               |                         |    |    |                         |    |    |                         |      |      |                                   |  |
| MOUNTAIN VIEW 91          | 36                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
| NIU RIDGE 1035            | 36                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
| DOKALA 223                | 36                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
| OPAEULA 870               | 36                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
| WAIALUA 847               | 36                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
|                           | 32                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |
|                           | 28                            | -                       | -  | -  | -                       | -  | -  | >365                    | >365 | >365 | 0                                 |  |

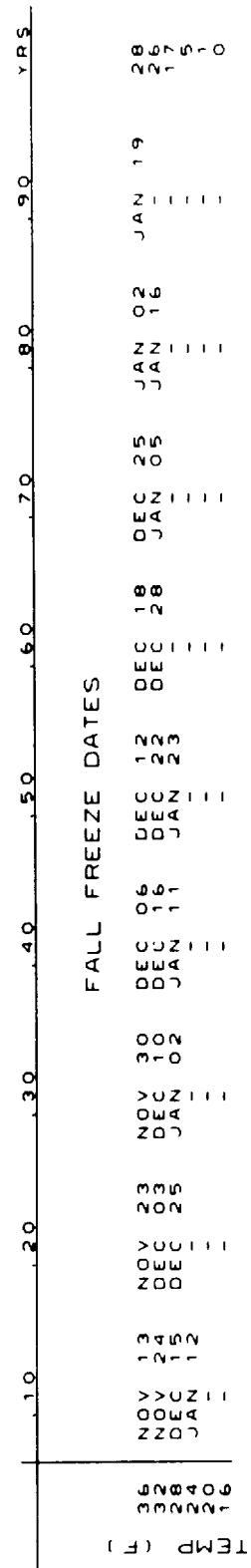
IV. Examples of Related Summaries

0200080 AZ AJO

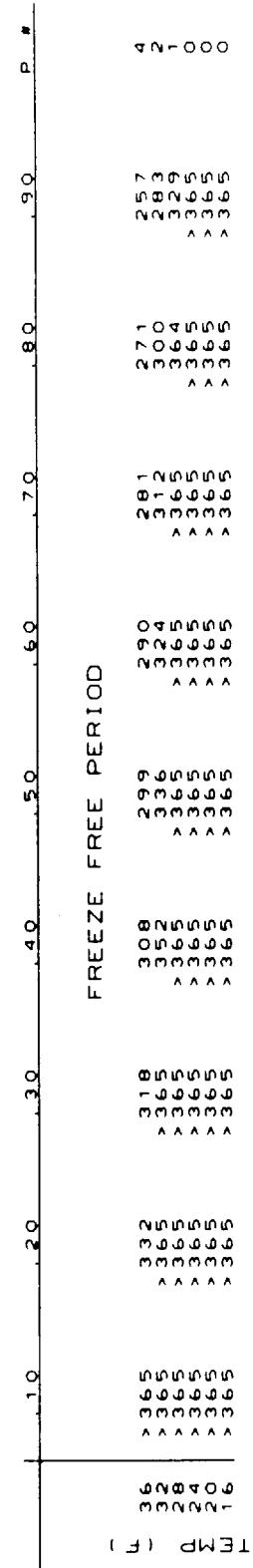
## FREEZE / FROST DATA



PROBABILITY OF EARLIER DATE IN FALL ( BEGINNING AUG 1 ) THAN INDICATED (\*)



PROBABILITY OF LONGER THAN INDICATED FREEZE FREE PERIOD ( DAYS )



( \*) PROBABILITY OF OBSERVING A TEMPERATURE AS COLD, OR COLDER, LATER IN THE SPRING OR EARLIER IN THE FALL THAN THE INDICATED DATE.

- INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

YRS INDICATES THE NUMBER OF YEARS WITHIN THE PERIOD OF RECORD WITH FREEZE OCCURRENCES.

# PROBABILITY OF A FREEZE / FROST DAY IN A YEARLY PERIOD IN PERCENT.

Fig. 3. Example of an extended table of freeze/frost data from microfiche (for Ajo, Arizona)

CLIMATOGRAPHY OF THE UNITED STATES NO. 20  
ASHEVILLE, NC

PERIOD: 1951-80  
ELEVATION: 2242 FT

CLIMATOLOGICAL SUMMARY

| MEANS          | TEMPERATURE (F.) |      |      | MEAN NUMBER OF DAYS |     |      | DEGREE DAYS |      |     | * * * |     |      | PRECIPITATION TOTALS (INCHES) |      |      |      |
|----------------|------------------|------|------|---------------------|-----|------|-------------|------|-----|-------|-----|------|-------------------------------|------|------|------|
|                | *                | *    | *    | EXTREMES            | DAy | YEAR | DAy         | YEAR | DAy | YEAR  | DAy | YEAR | DAy                           | YEAR | DAy  | YEAR |
| MAXIMUM DAILY  | 27.6             | 37.2 | 76   | 52                  | 1   | -7+  | 66          | 30   | 0   | 4     | 21  | 0    | 862                           | 0    | 2.73 | 6.31 |
| MINIMUM DAILY  | 29.2             | 39.6 | 78+  | 51                  | 26  | -3+  | 58          | 17   | 0   | 2     | 18  | 0    | 711                           | 0    | 2.93 | 5.18 |
| HIGHEST RECORD | 36.1             | 46.9 | 83+  | 67                  | 14  | 4+   | 80          | 3    | 0   | 1     | 12  | 0    | 568                           | 7    | 4.34 | 8.95 |
| LOWEST RECORD  | 45.1             | 56.7 | 89+  | 70                  | 29  | 23+  | 72          | 9    | 0   | 2     | 0   | 255  | 6                             | 3.36 | 6.76 |      |
| BASE AND ABOVE | 52.7             | 64.1 | 90+  | 75                  | 22  | 33+  | 63          | 2    | 0   | 0     | 0   | 100  | 72                            | 3.31 | 7.33 |      |
| 32 AND BELOW   | 59.4             | 70.4 | 98   | 52                  | 28  | 39+  | 66          | 1    | 2   | 0     | 0   | 13   | 15                            | 3.27 | 7.03 |      |
| 60 AND BELOW   | 63.3             | 73.8 | 98-  | 52                  | 29  | 49+  | 63          | 11   | 4   | 0     | 0   | 0    | 273                           | 2.91 | 5.11 |      |
| 68 AND BELOW   | 62.6             | 73.2 | 68   | 68                  | 22  | 47+  | 68          | 29   | 3   | 0     | 0   | 0    | 254                           | 3.76 | 8.88 |      |
| 76 AND BELOW   | 57.1             | 67.4 | 95+  | 54                  | 6   | 33+  | 67          | 30   | 1   | 0     | 0   | 44   | 116                           | 3.53 | 8.33 |      |
| 84 AND BELOW   | 45.3             | 56.7 | 88+  | 54                  | 3   | 23+  | 62          | 27   | 0   | 0     | 2   | 268  | 11                            | 2.72 | 8.46 |      |
| 90 AND BELOW   | 36.5             | 47.0 | 81+  | 74                  | 3   | 7+   | 70          | 24   | 0   | 0     | 12  | 0    | 540                           | 0    | 2.71 |      |
| 96 AND BELOW   | 30.2             | 39.9 | 81   | 51                  | 31  | -6+  | 62          | 13   | 0   | 2     | 19  | 0    | 778                           | 0    | 2.79 |      |
| YEAR           | 66.7             | 45.4 | 56.1 | 98                  | 52  | 29   | -7          | 66   | 30  | 10    | 9   | 86   | 0                             | 4139 | 914  |      |

\*FROM 1951-80 NORMALS  
# ESTIMATED VALUE BASED ON  
DATA FROM SURROUNDING STATIONS

DEGREE DAYS TO SELECTED BASE TEMPERATURES (F.)

HEATING DEGREE DAYS

| BASE       | HEATING DEGREE DAYS |     |     |     |     |     |     |     |     |     |     |     | PROBABILITY THAT THE MONTHLY PRECIPITATION WILL BE EQUAL TO OR LESS THAN THE INDICATED PRECIPITATION AMOUNT |     |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|------|------|------|------|------|------|------|------|------|------|------|------|
|            | JAN                 | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN   | JAN | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  |      |
| BASE BELOW | 862                 | 711 | 568 | 255 | 100 | 13  | 0   | 0   | 44  | 268 | 540 | 778 | 4139  | .05 | 1.00 | .67  | 1.84 | 1.03 | .90  | 1.00 | 1.15 | .91  | .97  | .39  | .82  | .60  |
| 65         | 707                 | 571 | 423 | 131 | 33  | 0   | 0   | 0   | 9   | 147 | 390 | 623 | 3034  | .10 | 1.26 | .95  | 2.23 | 1.35 | 1.21 | 1.31 | 1.42 | 1.26 | 1.31 | .75  | 1.08 | .86  |
| 60         | 623                 | 496 | 343 | 79  | 14  | 0   | 0   | 0   | 0   | 94  | 308 | 536 | 2493  | .20 | 1.63 | 1.38 | 2.78 | 1.82 | 1.69 | 1.78 | 1.80 | 1.81 | 1.81 | 1.21 | 1.46 | 1.27 |
| 57         | 565                 | 443 | 293 | 51  | 7   | 0   | 0   | 0   | 0   | 65  | 254 | 477 | 2155  | .30 | 1.94 | 1.76 | 3.24 | 2.23 | 2.11 | 2.18 | 2.12 | 2.30 | 2.26 | 1.59 | 1.80 | 1.64 |
| 55         | 426                 | 320 | 191 | 11  | 0   | 0   | 0   | 0   | 0   | 18  | 141 | 337 | 1444  | .40 | 2.23 | 2.15 | 3.66 | 2.63 | 2.52 | 2.56 | 2.42 | 2.78 | 2.69 | 1.97 | 2.12 | 2.01 |
| BASE ABOVE | 13                  | 12  | 42  | 102 | 289 | 462 | 583 | 564 | 372 | 117 | 14  | 9   | 2579  | .70 | 3.24 | 3.56 | 5.08 | 4.02 | 3.99 | 3.92 | 4.43 | 4.55 | 4.25 | 3.34 | 3.26 | 3.39 |
| 55         | 9                   | 8   | 30  | 70  | 234 | 402 | 521 | 502 | 315 | 85  | 8   | 6   | 2139  | .80 | 3.72 | 4.28 | 5.75 | 4.71 | 4.73 | 4.59 | 3.91 | 5.44 | 5.03 | 4.04 | 3.82 | 4.10 |
| 57         | 0                   | 0   | 17  | 32  | 160 | 312 | 428 | 409 | 231 | 44  | 0   | 0   | 1633  | .95 | 5.15 | 6.50 | 7.70 | 6.77 | 6.97 | 6.60 | 5.31 | 8.18 | 7.39 | 6.18 | 5.50 | 5.23 |
| 60         | 0                   | 0   | 7   | 6   | 72  | 175 | 273 | 254 | 116 | 11  | 0   | 0   | 914   | .70 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| 65         | 0                   | 0   | 0   | 0   | 20  | 75  | 128 | 111 | 41  | 0   | 0   | 0   | 375   | .00 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

| PRECIPITATION TOTALS (INCHES) | SNOW |     |      |     |      |     |      |     |      |     |      |     | NUMBER OF DAYS |     |      |     |      |     |      |     |   |
|-------------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|----------------|-----|------|-----|------|-----|------|-----|---|
|                               | YEAR | DAy | YEAR           | DAy | YEAR | DAy | YEAR | DAy | YEAR | DAy |   |
| 1.00 OR MORE                  | 6.31 | 5.4 | 2.35 | 5.4 | 22   | 3.8 | 22.3 | 6.6 | 6    | 2   | 0    | 0   | 0              | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0 |
| 0.50 OR MORE                  | 6.31 | 5.4 | 2.35 | 5.4 | 22   | 3.8 | 22.3 | 6.6 | 6    | 2   | 1    | 0   | 0              | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0 |
| 0.25 OR MORE                  | 6.31 | 5.4 | 2.35 | 5.4 | 22   | 3.8 | 22.3 | 6.6 | 6    | 2   | 1    | 0   | 0              | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0 |
| 0.10 OR MORE                  | 6.31 | 5.4 | 2.35 | 5.4 | 22   | 3.8 | 22.3 | 6.6 | 6    | 2   | 1    | 0   | 0              | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0 |
| 0.05 OR MORE                  | 6.31 | 5.4 | 2.35 | 5.4 | 22   | 3.8 | 22.3 | 6.6 | 6    | 2   | 1    | 0   | 0              | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0 |
| 0.01 OR MORE                  | 6.31 | 5.4 | 2.35 | 5.4 | 22   | 3.8 | 22.3 | 6.6 | 6    | 2   | 1    | 0   | 0              | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0 |

THESE VALUES WERE DETERMINED FROM THE INCOMPLETE GAMMA DISTRIBUTION.

DERIVED FROM THE 1951-80 MONTHLY NORMALS

Fig. 4 (a) Example of Climatograph of the United States No. 20:  
Climatic Summaries for Selected Sites (for Asheville, North Carolina)

310301 ASHEVILLE, NC

PERIOD: 1951-80  
LAT: 35 36N LONG: 82 32W

|  |    | FREEZE DATA   |       |       |       |       | GROWING DEGREE UNITS TO SELECTED BASE TEMPERATURES (F) |       |       |       |                     |
|--|----|---|-------|-------|-------|-------|--|-------|-------|-------|---------------------|
|  |    | PROBABILITY OF LATER DATE IN SPRING (THRU JULY 31) THAN INDICATED (*) |       |       |       |       | GROWING DEGREE UNITS                                   |       |       |       |                     |
|  |    | .90   | .80   | .70   | .60   | .50   | .40  | .30   | .20   | .10   | BASE                |
| L  | 36 | 4/11  | 4/17  | 4/20  | 4/24  | 4/27  | 4/30   | 5/03  | 5/07  | 5/12  | M                   |
| D  | 32 | 3/28  | 4/01  | 4/05  | 4/08  | 4/10  | 4/13   | 4/16  | 4/19  | 4/24  | S                   |
| D  | 28 | 3/13  | 3/17  | 3/20  | 3/22  | 3/24  | 3/26   | 3/29  | 4/01  | 4/04  | M                   |
| D  | 24 | 2/22  | 3/01  | 3/05  | 3/08  | 3/10  | 3/14   | 3/18  | 3/23  | 3/26  | S                   |
| TE   | 20 | 2/30  | 2/08  | 2/15  | 2/15  | 2/15  | 2/20   | 2/26  | 3/03  | 3/09  | M                   |
| TE   | 16 | 1/29  | 2/03  | 2/05  | 2/11  | 2/11  | 2/23   | 3/01  | 3/06  | 3/11  | S                   |
| PROBABILITY OF EARLIER DATE IN FALL (BEGINNING AUG 1) THAN INDICATED (*)   |    |   |       |       |       |       |  |       |       |       |                     |
| L  | 10 | 20  | 30    | 40    | 50    | 60    | 70   | 80    | 90    | 100   | M                   |
| D  | 36 | 10/01   | 10/06 | 10/11 | 10/14 | 10/17 | 10/20  | 10/23 | 10/27 | 10/31 | S                   |
| D  | 32 | 10/11   | 10/15 | 10/18 | 10/21 | 10/24 | 10/26  | 10/29 | 10/32 | 10/35 | M                   |
| D  | 28 | 10/21   | 10/26 | 10/30 | 10/33 | 10/35 | 10/38  | 10/41 | 10/44 | 10/47 | S                   |
| D  | 24 | 11/02   | 11/06 | 11/10 | 11/13 | 11/16 | 11/19  | 11/22 | 11/25 | 11/28 | M                   |
| TE   | 20 | 11/03   | 11/07 | 11/10 | 11/13 | 11/16 | 11/19  | 11/22 | 11/25 | 11/28 | S                   |
| TE   | 16 | 11/23   | 11/28 | 11/32 | 11/35 | 11/38 | 12/03  | 12/06 | 12/09 | 12/12 | M                   |
| PROBABILITY OF LONGER THAN INDICATED FREEZE FREE PERIOD (DAYS)   |    |   |       |       |       |       |  |       |       |       |                     |
| L  | 10 | 20  | 30    | 40    | 50    | 60    | 70   | 80    | 90    | 100   | M = MONTHLY DATA    |
| D  | 36 | 190   | 183   | 178   | 174   | 170   | 166  | 162   | 157   | 150   | SUM OF MONTHLY DATA |
| D  | 32 | 213   | 207   | 199   | 195   | 192   | 189  | 185   | 181   | 179   |                     |
| D  | 28 | 245   | 238   | 233   | 229   | 225   | 222  | 218   | 213   | 206   |                     |
| D  | 24 | 270   | 262   | 256   | 251   | 246   | 241  | 236   | 230   | 222   |                     |
| TE   | 20 | 309   | 298   | 290   | 283   | 276   | 270  | 263   | 255   | 243   |                     |
| TE   | 16 | 365   | 323   | 311   | 303   | 296   | 289  | 282   | 274   | 263   |                     |
| (*) PROBABILITY OF OBSERVING A TEMPERATURE AS COLD, OR COLDER, LATER IN THE SPRING OR EARLIER IN THE FALL THAN THE INDICATED DATE. |    |   |       |       |       |       |  |       |       |       |                     |
| 0/0 INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.                      |    |   |       |       |       |       |  |       |       |       |                     |

|  |    | FREEZE FREE PERIOD |     |     |     |     | GROWING DEGREE UNITS FOR CORN |     |     |     |      |
|--|----|--------------------|-----|-----|-----|-----|-------------------------------|-----|-----|-----|------|
|  |    | .90                | .80 | .70 | .60 | .50 | .40                           | .30 | .20 | .10 | BASE |
| L  | 36 | 190                | 183 | 178 | 174 | 170 | 166                           | 162 | 157 | 150 | M    |
| D  | 32 | 213                | 207 | 199 | 195 | 192 | 189                           | 185 | 181 | 179 | S    |
| D  | 28 | 245                | 238 | 233 | 229 | 225 | 222                           | 218 | 213 | 206 | M    |
| D  | 24 | 270                | 262 | 256 | 251 | 246 | 241                           | 236 | 230 | 222 | S    |
| TE   | 20 | 309                | 298 | 290 | 283 | 276 | 270                           | 263 | 255 | 243 | M    |
| TE   | 16 | 365                | 323 | 311 | 303 | 296 | 289                           | 282 | 274 | 263 | S    |
| (*) PROBABILITY OF OBSERVING A TEMPERATURE AS COLD, OR COLDER, LATER IN THE SPRING OR EARLIER IN THE FALL THAN THE INDICATED DATE. |    |                    |     |     |     |     |                               |     |     |     |      |
| 0/0 INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.                      |    |                    |     |     |     |     |                               |     |     |     |      |

(\*) PROBABILITY OF OBSERVING A TEMPERATURE AS COLD, OR COLDER, LATER IN THE SPRING OR EARLIER IN THE FALL THAN THE INDICATED DATE.  
 0/0 INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

OTHER CLIMATOLOGICAL DATA ARE AVAILABLE IN A VARIETY OF SUMMARIES AND FORMATS, SUCH AS THE CLIMATOGRAPHY OF THE UNITED STATES; NO. 60 - CLIMATE OF STATES; NO. 81 - MONTHLY NORMALS (AND SUPPLEMENTS: ANNUAL DEGREE DAYS TO SELECTED BASES DERIVED FROM THE 1951-80 NORMALS; AND MONTHLY PRECIPITATION PROBABILITIES, SELECTED PROBABILITY LEVELS DERIVED FROM THE 1951-80 NORMALS); NO. 84 - DAILY NORMALS; NO. 85 - DIVISIONAL NORMALS. A VARIETY OF DATA IS AVAILABLE EITHER ON MAGNETIC TAPE, MICROFICHE, OR PAPER COPY.

TO OBTAIN INFORMATION ABOUT CLIMATOLOGICAL DATA AND RELATED PUBLICATIONS, CONTACT:

DIRECTOR  
 NATIONAL CLIMATIC DATA CENTER  
 FEDERAL BUILDING  
 ASHEVILLE, NC 28801-2696  
 (OR TELEPHONE: (704) 259-0682)

DEPARTMENT OF COMMERCE  
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
 NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE  
 NATIONAL CLIMATIC DATA CENTER  
 ASHEVILLE, NC



Fig. 4 (b) Example of Climatography of the United States No. 20:  
Climatic Summaries for Selected Sites (for Asheville, North Carolina)

010252 AL - ANDALUSIA I NW

CUMULATIVE GROWING DEGREE UNITS  
FREEZE/FROST PROBABILITIES ( $32^{\circ}$  F)

# SAMPLE

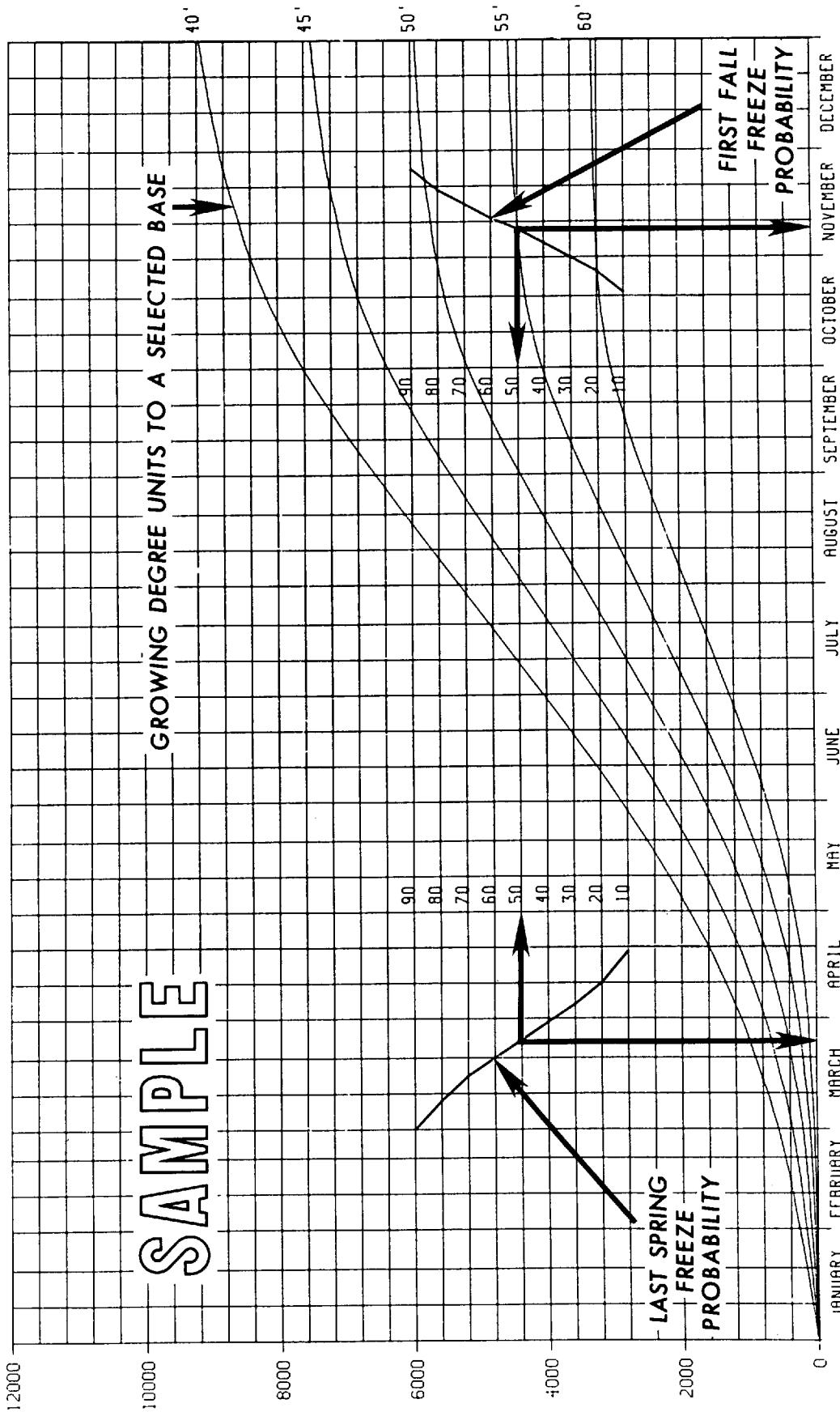


Fig. 5. Example of a growing degree units graph from microfiche (for Andalusia, Alabama)