

Climatology of the United States

No. 20

1971-2000

Station: CRYSTAL SPRINGS EXP STN, MS

COOP ID: 222094

Climate Division: MS 7

NWS Call Sign:

Elevation: 487 Feet

Lat: 31° 58N

Lon: 90° 22W

Temperature (°F)

Mean (1)				Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
Month	Daily Max	Daily Min	Mean	Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Heating	Cooling	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	57.0	35.9	46.5	85	1949	10	54.5	1974	4	1948	24	36.8	1977	583	0	.0	.0	23.0	.6	13.0	.0
Feb	61.7	39.0	50.4	85	1954	15	56.6	1976	2	1951	2	40.8	1978	411	1	.0	.0	23.8	.4	3.6	.0
Mar	69.2	46.7	58.0	88	1995	23	63.1	1974	16	1996	9	52.9	1996	238	20	.0	.0	29.5	.0	2.2	.0
Apr	76.4	52.9	64.7	92	1987	22	70.3	1981	30	1987	4	59.8	1997	84	74	.0	.1	30.0	.0	.3	.0
May	83.2	61.4	72.3	101	1951	31	75.7	1996	41	1954	4	68.0	1976	8	234	.0	2.1	31.0	.0	.0	.0
Jun	89.8	68.2	79.0	102+	1953	19	82.5	1998	53+	1954	4	76.0	1995	0	420	.1	16.6	30.0	.0	.0	.0
Jul	92.0	71.2	81.6	103+	1948	9	84.4	1980	59	1953	11	79.2	1989	0	515	.4	23.7	31.0	.0	.0	.0
Aug	91.8	70.1	81.0	106	2000	31	84.6+	2000	56	1990	13	77.4	1992	0	495	.7	22.2	31.0	.0	.0	.0
Sep	87.2	64.6	75.9	106+	2000	1	80.4	1980	41	1989	25	72.1	1974	2	329	.3	11.4	30.0	.0	.0	.0
Oct	78.7	53.5	66.1	95+	1954	5	71.2	1984	28	1993	31	60.1	1976	72	106	.0	1.0	31.0	.0	.1	.0
Nov	68.7	44.8	56.8	88	1952	15	62.2	1985	19+	1950	25	49.0	1976	270	23	.0	.0	28.6	.0	3.3	.0
Dec	60.3	37.7	49.0	83+	1948	15	58.4	1984	2	1989	23	39.5	1989	505	9	.0	.0	25.2	.2	6.7	.0
Ann	76.3	53.8	65.1	106+	Sep 2000	1	84.6+	Aug 2000	2+	Dec 1989	23	36.8	Jan 1977	2173	2226	1.5	77.1	344.1	1.2	29.2	.0

+ Also occurred on an earlier date(s)

@ Denotes mean number of days greater than 0 but less than .05

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

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Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	5.77	5.09	5.94	1950	6	13.89	1990	.92	1986	11.5	8.5	4.1	2.0	1.64	2.19	3.02	3.74	4.44	5.17	5.98	6.94	8.18	10.13	11.94
Feb	5.62	5.75	3.28	1995	17	12.32	1987	1.37	1986	8.9	6.7	3.6	1.6	1.80	2.33	3.12	3.80	4.45	5.12	5.86	6.72	7.83	9.56	11.16
Mar	6.12	5.41	3.90	1986	19	13.94	1980	2.88	1978	10.4	7.8	4.2	2.3	2.89	3.42	4.15	4.74	5.29	5.84	6.42	7.08	7.92	9.18	10.31
Apr	5.98	5.12	3.60+	1948	14	19.67	1991	.87	1987	8.2	6.0	3.8	2.1	1.24	1.79	2.67	3.47	4.27	5.13	6.10	7.27	8.81	11.27	13.60
May	4.93	4.67	5.10	1990	13	10.43	1991	.02	1998	9.3	7.1	3.2	1.8	.61	.99	1.69	2.38	3.11	3.92	4.86	6.03	7.61	10.21	12.73
Jun	5.43	5.27	6.81	1997	10	12.68	1997	1.29	1977	11.1	7.5	2.1	.9	1.93	2.44	3.18	3.81	4.40	5.01	5.67	6.45	7.43	8.96	10.36
Jul	4.36	3.87	5.14	1988	3	12.24	1988	1.38	1983	11.7	8.6	3.2	1.0	1.74	2.14	2.71	3.18	3.63	4.08	4.57	5.14	5.85	6.95	7.96
Aug	3.63	2.96	7.24	1992	27	12.84	1992	.52	1999	10.8	7.6	2.6	.8	.82	1.16	1.69	2.17	2.65	3.16	3.72	4.40	5.30	6.72	8.06
Sep	4.39	3.92	3.70	1991	25	9.05	1971	1.31	1984	8.5	5.6	2.2	.8	1.64	2.05	2.64	3.13	3.60	4.07	4.59	5.19	5.95	7.12	8.19
Oct	3.33	3.14	4.60	1988	2	11.43	1985	.32	1978	6.2	4.8	2.3	1.1	.52	.80	1.28	1.74	2.22	2.74	3.34	4.06	5.04	6.63	8.15
Nov	4.65	4.49	4.55	2000	9	9.85	2000	.76	1985	8.8	6.6	3.3	1.8	1.53	1.97	2.62	3.17	3.70	4.25	4.85	5.55	6.45	7.85	9.14
Dec	6.11	5.47	3.40	1997	24	16.75	1982	1.75	1980	10.0	7.6	4.1	1.7	2.24	2.81	3.63	4.33	4.98	5.66	6.39	7.24	8.32	10.00	11.53
Ann	60.32	61.12	7.24	Aug 1992	27	19.67	Apr 1991	.02	May 1998	115.4	84.4	38.7	17.9	45.79	48.68	52.33	55.08	57.51	59.84	62.23	64.86	68.03	72.59	76.50

+ Also occurred on an earlier date(s)

Denotes amounts of a trace

@ Denotes mean number of days greater than 0 but less than .05

** Statistics not computed because less than six years out of thirty had measurable precipitation

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

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Lat: 31°58N

Lon: 90°22W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	#	.0	0	0	#	1988	8	#	1988	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Feb	#	.0	#	0	#	1989	7	#+	1989	#	1989	7	#	1989	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.6	.0	0	0	5.5	1997	15	5.5	1997	0	0	0	0	0	.1	.1	.1	.1	.0	.0	.0	.0	.0
Ann	.6	.0	N/A	N/A	5.5	Dec 1997	15	5.5	Dec 1997	#	Feb 1989	7	#	Feb 1989	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

@ Denotes mean number of days greater than 0 but less than .05

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

(1) Derived from Snow Climatology and 1971-2000 daily data

(2) Derived from 1971-2000 daily data

Complete documentation available from:

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Freeze Data									
Spring Freeze Dates (Month/Day)									
Temp (F)	Probability of later date in spring (thru Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	4/15	4/09	4/05	4/01	3/29	3/25	3/22	3/17	3/12
32	4/07	3/29	3/23	3/18	3/13	3/09	3/03	2/25	2/17
28	3/18	3/08	2/28	2/22	2/16	2/10	2/04	1/27	1/17
24	3/02	2/20	2/14	2/08	2/02	1/27	1/21	1/14	1/02
20	2/15	2/05	1/30	1/23	1/17	1/10	1/01	0/00	0/00
16	2/13	1/31	1/21	1/09	12/21	0/00	0/00	0/00	0/00
Fall Freeze Dates (Month/Day)									
Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	10/17	10/23	10/28	10/31	11/04	11/08	11/12	11/16	11/22
32	10/28	11/04	11/10	11/15	11/19	11/24	11/29	12/04	12/12
28	11/04	11/13	11/20	11/26	12/01	12/06	12/12	12/19	12/28
24	11/28	12/10	12/18	12/26	1/01	1/08	1/16	1/25	2/08
20	12/09	12/20	12/28	1/04	1/11	1/19	1/29	0/00	0/00
16	12/20	1/02	1/12	1/23	2/07	0/00	0/00	0/00	0/00
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	246	237	231	225	220	215	209	202	193
32	282	271	263	257	250	244	237	229	219
28	327	313	303	295	287	279	271	261	247
24	>365	>365	349	338	329	320	311	302	288
20	>365	>365	>365	>365	>365	356	340	327	311
16	>365	>365	>365	>365	>365	>365	>365	>365	340

* Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

0/00 Indicates that the probability of occurrence of threshold temperature is less than the indicated probability.

Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Degree Days to Selected Base Temperatures (°F)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	583	411	238	84	8	0	0	0	2	72	270	505	2173
60	440	283	129	27	1	0	0	0	0	24	163	364	1431
57	360	213	81	11	0	0	0	0	0	10	113	289	1077
55	311	172	56	5	0	0	0	0	0	5	85	244	878
50	209	93	17	0	0	0	0	0	0	1	35	152	507
32	17	1	0	0	0	0	0	0	0	0	0	7	25

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	465	514	806	980	1249	1410	1538	1518	1317	1056	743	533	12129
55	46	42	148	295	536	720	825	805	627	348	138	57	4587
57	33	27	111	240	474	660	763	743	567	291	105	40	4054
60	20	13	67	167	382	570	670	650	477	212	65	23	3316
65	0	1	20	74	234	420	515	495	329	106	23	9	2226
70	0	0	4	21	111	271	360	340	193	38	6	0	1344

Growing Degree Units (2)																								
Base	Growing Degree Units (Monthly)												Growing Degree Units (Accumulated Monthly)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	256	360	562	732	1005	1175	1290	1278	1082	800	504	311	256	616	1178	1910	2915	4090	5380	6658	7740	8540	9044	9355
45	158	231	416	583	850	1025	1135	1123	932	645	366	187	158	389	805	1388	2238	3263	4398	5521	6453	7098	7464	7651
50	86	133	282	436	695	875	980	968	782	492	243	97	86	219	501	937	1632	2507	3487	4455	5237	5729	5972	6069
55	41	61	168	297	540	725	825	813	632	342	144	45	41	102	270	567	1107	1832	2657	3470	4102	4444	4588	4633
60	15	20	83	167	387	575	670	658	483	211	74	19	15	35	118	285	672	1247	1917	2575	3058	3269	3343	3362
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	157	208	342	471	689	813	890	880	739	522	311	186	157	365	707	1178	1867	2680	3570	4450	5189	5711	6022	6208

(1) Derived from the 1971-2000 Monthly Normals

(2) Derived from 1971-2000 serially complete daily data

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Notes

- a. The monthly means are simple arithmetic averages computed by summing the monthly values for the period 1971-2000 and dividing by thirty. Prior to averaging, the data are adjusted if necessary to compensate for data quality issues, station moves or changes in station reporting practices. Missing months are replaced by estimates based on neighboring stations.
- b. The median is defined as the middle value in an ordered set of values. The median is being provided for the snow and precipitation elements because the mean can be a misleading value for precipitation normals.
- c. Only observed validated values were used to select the extreme daily values.
- d. Extreme monthly temperature/precipitation means were selected from the monthly normals data.
Monthly snow extremes were calculated from daily values quality controlled to be consistent with the Snow Climatology.
- e. Degree Days were derived using the same techniques as the 1971-2000 normals.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html
- f. Mean "number of days statistics" for temperature and precipitation were calculated from a serially complete daily data set.
Documentation of the serially complete data set is available from the link below:
- g. Snowfall and snow depth statistics were derived from the Snow Climatology.
Documentation for the Snow Climatology project is available from the link under references.

Data Sources for Tables

Several different data sources were used to create the Clim20 climate summaries. In some cases the daily extremes appear inconsistent with the monthly extremes and or the mean number of days statistics. For example, a high daily extreme value may not be reflected in the highest monthly value or the mean number of days threshold that is less than and equal to the extreme value. Some of these difference are caused by different periods of record. Daily extremes are derived from the station's entire period of record while the serial data and normals data were for the 1971-2000 period. Therefore extremes observed before 1971 would not be included in the 1971-2000 normals or the 1971-2000 serial daily data set. Inconsistencies can also occur when monthly values are adjusted to reflect the current observing conditions or were replaced during the 1971-2000 Monthly Normals processing and are not reconciled with the Summary of the Day data.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html
Snow Climatology Project Description, www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html
Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,
www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf