U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

Climatography of the United States No. 20 1971-2000

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

Station: YELLOW PINE 7 S, ID **COOP ID: 109951**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 5,100 Feet** **Lat: 44˚51N** **Lon: 115˚31W**

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	32.8	7.6	20.2	52+	1994	23	27.0	1998	-35	1979	1	7.5	1979	1388	0	.0	.0	.2	12.9	30.5	9.2
Feb	38.6	9.7	24.2	63	1977	21	32.6	1991	-33+	1989	5	14.8	1985	1144	0	.0	.0	2.4	5.5	28.0	6.3
Mar	44.9	16.2	30.6	75	1986	28	39.7	1986	-20	1975	28	22.7	1976	1069	0	.0	.0	8.9	1.4	30.6	1.5
Apr	52.3	22.2	37.3	85	1977	25	42.6	1987	-4+	1975	2	29.9	1975	833	0	.0	.0	16.7	.1	27.9	.1
May	61.5	29.1	45.3	89	1973	16	50.7	1993	16	1982	5	40.5	1975	611	0	.0	.0	26.2	.0	22.4	.0
Jun	70.1	34.3	52.2	92	1974	15	58.4	1986	22	1974	1	48.6	1975	386	1	.0	.4	29.3	.0	9.8	.0
Jul	79.8	37.6	58.7	97	2000	31	63.4	1998	26+	1999	5	50.8	1993	213	17	.0	2.6	31.0	.0	3.0	.0
Aug	79.7	36.0	57.9	96+	1990	9	61.6	1971	21	1992	25	54.0	1985	235	13	.0	2.9	31.0	.0	6.1	.0
Sep	70.3	29.4	49.9	93+	1998	5	56.6	1998	13	1999	28	44.2	1985	455	1	.0	.2	28.9	.0	20.6	.0
Oct	58.0	23.7	40.9	83+	1996	11	46.6	1988	-1+	1991	30	36.1	1984	749	0	.0	.0	22.8	.1	27.9	.1
Nov	40.3	17.3	28.8	69	1980	6	35.1	1999	-20+	1985	24	22.9	1985	1085	0	.0	.0	4.9	4.5	28.9	2.4
Dec	32.3	8.6	20.5	51	1979	18	26.0	1980	-33+	1990	22	12.4	1990	1381	0	.0	.0	.2	12.7	30.6	6.9
Ann	55.1	22.6	38.9	97	Jul 2000	31	63.4	Jul 1998	-35	Jan 1979	1	7.5	Jan 1979	9549	32	.0	6.1	202.5	37.2	266.3	26.5

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1970-2001

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	3.22	2.99	2.47	2000	4	8.18	1974	.42	1985
Feb	2.83	2.53	1.10+	1999	19	6.59	1986	.47	1977
Mar	2.35	2.28	1.14	1986	8	5.71	1974	.33	1992
Apr	1.95	1.99	1.71	2001	29	4.49	1996	.00	1999
May	2.10	2.00	1.30	1999	31	4.90	1984	.38	1992
Jun	1.99	1.92	1.35	1993	7	3.94	1981	.26	1972
Jul	1.13	1.10	1.17	1976	18	2.83	1987	.00	1999
Aug	1.09	.91	1.03	1975	24	3.98	1983	.00	2000
Sep	1.49	1.24	2.45	1970	8	4.92	1985	.01+	1993
Oct	1.81	1.64	1.80	1975	7	5.83	1975	.00	1987
Nov	3.22	2.15	2.88	1996	19	10.48	1973	.30	1976
Dec	3.38	3.17	5.30	2001	29	10.67	1996	.63+	1989
Ann	26.56	25.76	5.30	Dec 2001	29	10.67	Dec 1996	.00+	Aug 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	14.0	8.6	1.8	.2
Feb	12.5	7.9	1.7	.1
Mar	11.3	6.7	1.1	.1
Apr	11.5	6.5	.7	.1
May	12.0	6.4	.9	.1
Jun	10.2	5.7	.8	.1
Jul	5.3	2.8	.6	.1
Aug	6.3	3.2	.4	.1
Sep	6.5	4.0	.8	.1
Oct	7.7	4.7	1.1	.2
Nov	13.2	8.4	1.7	.5
Dec	13.7	8.5	1.7	.4
Ann	124.2	73.4	13.3	2.1

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.80	1.10	1.57	1.98	2.40	2.83	3.32	3.90	4.65	5.85	6.97
Feb	.81	1.07	1.48	1.83	2.18	2.53	2.93	3.40	4.01	4.96	5.84
Mar	.56	.78	1.13	1.43	1.74	2.06	2.42	2.85	3.41	4.31	5.15
Apr	.32	.58	.91	1.18	1.44	1.72	2.03	2.40	2.87	3.62	4.33
May	.56	.76	1.06	1.33	1.59	1.86	2.17	2.53	3.00	3.74	4.43
Jun	.58	.77	1.05	1.30	1.54	1.79	2.07	2.39	2.82	3.48	4.09
Jul	.10	.23	.41	.57	.74	.93	1.14	1.39	1.73	2.28	2.81
Aug	.06	.16	.33	.49	.66	.85	1.07	1.35	1.72	2.34	2.95
Sep	.03	.07	.19	.36	.58	.86	1.22	1.72	2.44	3.73	5.07
Oct	.18	.39	.69	.96	1.23	1.51	1.84	2.24	2.76	3.61	4.42
Nov	.49	.76	1.23	1.67	2.14	2.64	3.22	3.93	4.89	6.44	7.93
Dec	.63	.93	1.42	1.88	2.35	2.85	3.43	4.12	5.04	6.53	7.94
Ann	16.60	18.43	20.83	22.69	24.36	26.00	27.71	29.62	31.96	35.40	38.42

\+ 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: 1970-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	24.6	24.4	21	22	13.5	1996	28	49.5	1993	47	1971	15	40	1993	10.6	7.9	3.0	1.3	.1	30.6	30.5	30.2	26.6
Feb	18.3	16.7	25	26	12.0	1996	24	43.3	1975	52	1999	19	41	1999	8.5	6.7	2.6	.7	@	28.1	28.0	27.8	26.2
Mar	10.6	8.3	19	19	12.5	1997	2	24.5	1975	44	1999	4	37	1999	6.2	4.3	1.2	.3	@	27.8	26.7	25.3	21.7
Apr	6.4	5.3	7	4	7.6	1980	7	17.9	1980	36	1975	4	27	1975	3.6	2.4	.7	.1	.0	12.8	10.2	8.9	6.6
May	1.1	.0	#	#	5.4	1984	16	6.9	1984	17	1975	1	4	1975	.6	.5	.1	@	.0	1.0	.5	.4	.3
Jun	.1	.0	#	0	2.0	1995	6	2.0	1995	2	1995	6	#+	1999	@	@	.0	.0	.0	@	.0	.0	.0
Jul	#	.0	#	0	#	1994	6	#	1994	#	1994	6	#	1994	.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	.1	.0	#	0	1.0	1982	29	1.0+	1984	1+	1984	24	#+	1984	.1	.1	.0	.0	.0	.1	.0	.0	.0
Oct	2.3	.6	#	#	6.2	1984	28	17.2	1984	8	1984	29	1	1996	1.3	1.0	.2	.1	.0	1.6	.4	.2	.0
Nov	15.2	15.2	3	3	11.2	1984	28	44.3	1973	23	1994	30	11	1994	7.6	5.9	2.0	.6	.1	14.5	10.2	6.7	2.3
Dec	25.4	21.4	12	11	11.3	1984	30	72.5	1996	41	1992	29	23	1992	10.7	8.1	3.1	1.2	.1	29.5	27.1	23.6	18.6
Ann	104.1	91.9	N/A	N/A	13.5	Jan 1996	28	72.5	Dec 1996	52	Feb 1999	19	41	Feb 1999	49.2	36.9	12.9	4.3	.3	146.0	133.6	123.1	102.3

+ 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

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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	8/03	7/30	7/27	7/24	7/22	7/19	7/17	7/14	7/10
32	7/26	7/20	7/15	7/12	7/08	7/05	7/01	6/27	6/21
28	7/09	7/03	6/28	6/25	6/21	6/17	6/13	6/09	6/02
24	6/15	6/06	5/31	5/26	5/20	5/15	5/10	5/04	4/25
20	5/17	5/11	5/07	5/03	4/29	4/26	4/22	4/18	4/12
16	5/02	4/24	4/19	4/14	4/10	4/06	4/01	3/27	3/20

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	7/29	7/31	8/02	8/04	8/06	8/07	8/09	8/11	8/14
32	8/02	8/07	8/11	8/14	8/17	8/20	8/23	8/27	9/02
28	8/17	8/23	8/27	8/30	9/02	9/06	9/09	9/13	9/19
24	9/06	9/11	9/14	9/17	9/19	9/22	9/25	9/28	10/03
20	9/15	9/21	9/25	9/29	10/02	10/06	10/09	10/13	10/19
16	10/03	10/09	10/13	10/16	10/20	10/23	10/27	10/31	11/06

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	30	25	21	18	14	11	8	4	0
32	63	55	49	44	39	35	30	24	16
28	99	90	83	78	73	68	62	56	47
24	153	142	134	127	121	115	108	101	90
20	181	172	166	160	155	150	144	138	129
16	222	212	204	198	192	186	179	172	161

***** 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

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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	1388	1144	1069	833	611	386	213	235	455	749	1085	1381	9549
60	1233	1004	914	683	456	246	106	121	312	594	935	1226	7830
57	1140	920	821	593	366	172	60	72	233	501	845	1133	6856
55	1078	864	759	533	308	130	37	46	186	439	785	1071	6236
50	923	724	604	389	178	53	8	11	91	289	635	916	4821
32	389	258	150	42	2	0	0	0	0	8	162	375	1386

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	23	38	104	199	414	606	827	801	535	283	67	17	3914
55	0	0	0	0	7	46	150	134	31	0	0	0	368
57	0	0	0	0	3	27	111	97	18	0	0	0	256
60	0	0	0	0	0	11	64	53	7	0	0	0	135
65	0	0	0	0	0	1	17	13	1	0	0	0	32
70	0	0	0	0	0	0	2	1	0	0	0	0	3

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	0	0	7	64	204	391	607	580	320	112	6	0	0	0	7	71	275	666	1273	1853	2173	2285	2291	2291
45	0	0	0	20	99	251	453	426	190	37	0	0	0	0	0	20	119	370	823	1249	1439	1476	1476	1476
50	0	0	0	2	35	132	302	275	88	10	0	0	0	0	0	2	37	169	471	746	834	844	844	844
55	0	0	0	0	7	54	168	143	25	0	0	0	0	0	0	0	7	61	229	372	397	397	397	397
60	0	0	0	0	0	12	59	49	2	0	0	0	0	0	0	0	0	12	71	120	122	122	122	122
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	24	84	197	309	458	452	308	158	15	0	0	1	25	109	306	615	1073	1525	1833	1991	2006	2006

(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

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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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