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: FAYWOOD, NM **COOP ID: 293157**

Climate Division: NM 8 **NWS Call Sign:** **Elevation: 5,191 Feet** **Lat: 32˚38N** **Lon: 107˚52W**

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	55.6	27.1	41.4	79	1971	18	46.0	2000	3	1971	5	37.5	1979	734	0	.0	.0	24.6	.2	26.1	.0
Feb	59.6	29.6	44.6	80	1986	26	50.4	1996	5	1964	21	41.1	1973	573	0	.0	.0	25.0	.3	19.6	.0
Mar	65.8	33.2	49.5	87	1978	31	56.0	1972	3	1966	4	43.7	1977	482	1	.0	.0	30.4	.0	14.0	.0
Apr	73.5	38.3	55.9	92+	1965	22	62.6	1989	19	1980	13	47.9	1983	287	14	.0	.2	29.7	.0	5.0	.0
May	82.0	46.5	64.3	99	2000	23	70.4	2000	24	1967	1	61.5	1991	99	76	.0	2.8	31.0	.0	.4	.0
Jun	91.0	55.7	73.4	105+	1974	22	78.2	1994	35+	1965	11	67.8	1983	8	259	2.4	18.1	30.0	.0	.0	.0
Jul	90.8	61.4	76.1	104	1979	10	80.6	1980	46	1987	6	72.8	1991	0	344	1.7	18.9	31.0	.0	.0	.0
Aug	88.3	60.2	74.3	100+	1972	1	78.0	1977	40+	1985	15	70.1	1990	0	286	.2	12.5	31.0	.0	.0	.0
Sep	83.5	54.5	69.0	98+	1974	9	72.1	2000	30	1985	29	66.2+	1996	19	139	.0	4.3	30.0	.0	.1	.0
Oct	74.1	43.4	58.8	93+	1979	1	62.4	1988	18	1980	29	53.8	1976	209	16	.0	.3	30.9	.0	2.2	.0
Nov	63.0	32.6	47.8	82+	1968	1	53.4	1999	8	1976	29	43.0	2000	516	0	.0	.0	28.2	.0	15.5	.0
Dec	55.5	27.1	41.3	74	1995	1	45.7	1977	0	1978	9	37.8	1997	735	0	.0	.0	24.2	.3	25.1	@
Ann	73.6	42.5	58.0	105+	Jun 1974	22	80.6	Jul 1980	0	Dec 1978	9	37.5	Jan 1979	3662	1135	4.3	57.1	346.0	.8	108.0	@

\+ 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/normals/usnormals.html

(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

Issue Date: February 2004

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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	.79	.58	1.50	1993	8	5.47	1993	.00+	1986
Feb	.60	.56	1.21	1949	12	1.67	1991	.00+	1999
Mar	.47	.39	1.10	1975	29	1.36	1983	.00+	1996
Apr	.19	.02	.80	1951	20	1.03	1992	.00+	1995
May	.38	.18	.81	1952	26	2.71	1992	.00+	2000
Jun	.96	.38	2.74	2000	29	6.61	2000	.00+	1995
Jul	2.45	2.36	1.82	1990	16	4.69	1990	.25	1982
Aug	2.65	2.22	3.20	1967	10	9.02	1988	.65	1973
Sep	1.68	1.47	2.20	1958	12	4.67	1975	.00	2000
Oct	1.52	1.00	2.05	2000	11	4.99	1985	.00+	1995
Nov	.97	.69	1.80	1994	12	3.83	1986	.00+	1999
Dec	1.13	.63	1.40	1971	29	4.69	1991	.00+	1996
Ann	13.79	14.40	3.20	Aug 1967	10	9.02	Aug 1988	.00+	Sep 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	2.8	2.2	.5	.1
Feb	2.4	1.7	.3	.0
Mar	2.0	1.5	.2	@
Apr	1.2	.6	.1	.0
May	1.5	1.2	.2	.0
Jun	2.5	2.1	.5	.2
Jul	7.3	6.4	1.6	.4
Aug	7.6	6.3	1.6	.4
Sep	4.7	4.2	1.2	.2
Oct	3.8	3.0	1.2	.4
Nov	2.4	2.0	.6	.2
Dec	3.1	2.7	.8	.2
Ann	41.3	33.9	8.8	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	.00	.02	.09	.20	.32	.48	.68	.94	1.32	1.98	2.66
Feb	.00	.00	.05	.16	.28	.41	.56	.75	1.02	1.45	1.90
Mar	.00	.00	.00	.16	.26	.36	.47	.61	.79	1.09	1.36
Apr	.00	.00	.00	.00	.00	.02	.07	.16	.30	.58	.89
May	.00	.00	.00	.00	.04	.15	.28	.45	.69	1.09	1.48
Jun	.00	.00	.00	.04	.22	.45	.74	1.13	1.68	2.66	3.65
Jul	.74	.98	1.32	1.62	1.91	2.21	2.54	2.93	3.44	4.22	4.95
Aug	.68	.93	1.31	1.65	1.99	2.34	2.73	3.20	3.81	4.77	5.67
Sep	.25	.47	.75	.99	1.22	1.47	1.74	2.07	2.49	3.17	3.81
Oct	.00	.00	.18	.43	.70	1.02	1.40	1.88	2.56	3.67	4.79
Nov	.00	.00	.14	.29	.45	.65	.89	1.20	1.62	2.35	3.08
Dec	.00	.00	.11	.26	.45	.68	.97	1.35	1.90	2.86	3.83
Ann	7.44	8.54	10.02	11.18	12.25	13.31	14.43	15.69	17.26	19.60	21.68

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.8	.0	#	0
Feb	.7	.0	#	0
Mar	.3	.0	0	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.1	.0	0	0
Nov	.2	.0	#	0
Dec	1.8	.0	#	0
Ann	3.9	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	5.0	1975	1	5.0	1975	2	1987	17	#+	1987
Feb	5.0	1979	5	5.0	1979	3	1973	22	#+	1997
Mar	8.0	1975	29	8.0	1975	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	3.0	1976	27	3.0	1976	0	0	0	0	0
Nov	2.0	1973	27	2.0+	1976	2	1973	27	#	1973
Dec	8.0	1987	25	14.0	1987	2	1985	12	#+	1989
Ann	8.0+	Dec 1987	25	14.0	Dec 1987	3	Feb 1973	22	#+	Feb 1997

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.3	.1	@	.0
Feb	.2	.2	.1	@	.0
Mar	@	@	@	@	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	@	@	@	.0	.0
Nov	.1	.1	.0	.0	.0
Dec	.5	.5	.4	.1	.0
Ann	1.1	1.1	.6	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	@	.0	.0	.0
Dec	@	.0	.0	.0
Ann	@	.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

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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	5/25	5/19	5/15	5/11	5/08	5/05	5/01	4/27	4/22
32	5/04	4/29	4/26	4/23	4/20	4/17	4/14	4/10	4/05
28	4/24	4/18	4/13	4/10	4/06	4/02	3/30	3/25	3/19
24	4/12	4/05	3/31	3/27	3/23	3/19	3/15	3/10	3/03
20	4/03	3/20	3/10	3/01	2/21	2/13	2/04	1/25	1/10
16	3/05	2/21	2/13	2/05	1/29	1/22	1/14	1/03	12/15

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	10/03	10/08	10/12	10/15	10/18	10/21	10/25	10/29	11/03
32	10/10	10/16	10/20	10/23	10/26	10/29	11/01	11/05	11/11
28	10/21	10/26	10/29	11/01	11/04	11/07	11/10	11/13	11/18
24	10/30	11/05	11/08	11/12	11/15	11/18	11/21	11/25	11/30
20	11/14	11/21	11/26	11/30	12/03	12/07	12/11	12/16	12/22
16	11/27	12/04	12/09	12/14	12/18	12/23	12/28	1/05	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	181	175	170	166	163	159	155	151	144
32	209	202	197	193	189	185	180	175	168
28	233	225	220	215	211	207	202	197	189
24	261	253	246	241	236	230	225	219	210
20	332	314	302	292	283	274	264	253	238
16	>365	360	340	330	321	314	306	297	285

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	734	573	482	287	99	8	0	0	19	209	516	735	3662
60	579	433	333	170	37	1	0	0	2	101	369	580	2605
57	486	349	251	116	16	0	0	0	0	58	285	487	2048
55	424	296	201	86	9	0	0	0	0	37	233	425	1711
50	274	171	103	32	1	0	0	0	0	9	125	276	991
32	4	0	0	0	0	0	0	0	0	0	0	4	8

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	293	352	542	717	999	1241	1367	1309	1110	829	474	292	9525
55	0	3	30	113	295	551	654	596	420	153	17	0	2832
57	0	1	18	83	241	491	592	534	360	112	9	0	2441
60	0	0	7	47	168	402	499	441	272	62	3	0	1901
65	0	0	1	14	76	259	344	286	139	16	0	0	1135
70	0	0	0	2	24	138	194	143	47	2	0	0	550

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	97	162	314	495	762	1006	1118	1052	870	588	250	100	97	259	573	1068	1830	2836	3954	5006	5876	6464	6714	6814
45	31	70	180	348	607	856	963	897	720	434	134	34	31	101	281	629	1236	2092	3055	3952	4672	5106	5240	5274
50	2	19	75	217	452	706	808	742	570	289	48	1	2	21	96	313	765	1471	2279	3021	3591	3880	3928	3929
55	0	1	25	102	298	556	653	587	420	157	10	0	0	1	26	128	426	982	1635	2222	2642	2799	2809	2809
60	0	0	0	32	161	406	498	432	275	62	0	0	0	0	0	32	193	599	1097	1529	1804	1866	1866	1866
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	116	160	258	363	509	627	725	695	565	394	210	111	116	276	534	897	1406	2033	2758	3453	4018	4412	4622	4733

(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:
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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