

Climatology of the United States

No. 20

1971-2000

Station: JAL, NM

COOP ID: 294346

Climate Division: NM 7

NWS Call Sign:

Elevation: 3,060 Feet Lat: 32°07N

Lon: 103°11W

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	59.4	28.3	43.9	85+	1970	24	48.6	2000	-11	1962	11	37.7	1979	657	0	.0	.0	24.6	.7	22.0	@
Feb	66.3	33.2	49.8	89+	1972	29	56.6	2000	-8	1985	2	44.4	1973	428	0	.0	.0	25.9	.4	14.0	@
Mar	73.8	39.4	56.6	98	1971	27	62.3	1974	0	1953	9	51.7	1996	270	8	.0	.6	30.5	@	6.0	.0
Apr	81.6	47.4	64.5	102	1965	21	69.2	1972	22	1973	9	59.0	1973	95	82	.1	5.3	29.9	.0	1.4	.0
May	88.8	56.9	72.9	107+	1953	23	78.4	1996	28	1997	14	68.6	1992	13	256	1.9	15.2	31.0	.0	.1	.0
Jun	94.9	64.9	79.9	112	1957	29	85.2	1990	40	1973	2	76.1	1979	0	447	6.8	23.9	30.0	.0	.0	.0
Jul	95.5	68.3	81.9	112	1953	7	85.6	1998	50	1949	13	77.3	1975	0	524	6.4	25.9	31.0	.0	.0	.0
Aug	93.5	67.0	80.3	110+	1952	8	84.7	1977	50	1950	20	76.2	1971	0	472	3.0	24.2	31.0	.0	.0	.0
Sep	87.5	60.4	74.0	108	1951	1	79.8	1977	37	1996	28	66.5	1974	9	278	1.1	14.0	29.9	.0	.0	.0
Oct	79.4	49.5	64.5	100+	1954	3	68.3	1998	20	1976	20	58.2	1976	82	65	.1	3.3	30.8	.0	.8	.0
Nov	67.9	37.1	52.5	89+	1996	20	57.3+	1999	8	1976	29	45.2	1976	380	6	.0	.0	28.1	.1	9.3	.0
Dec	61.1	29.3	45.2	84+	1954	3	50.3	1981	3+	1953	24	40.0	1983	615	0	.0	.0	26.4	.5	20.3	.0
Ann	79.1	48.5	63.8	112+	Jun 1957	29	85.6	Jul 1998	-11	Jan 1962	11	37.7	Jan 1979	2549	2138	19.4	112.4	349.1	1.7	73.9	.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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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: JAL, NM

COOP ID: 294346

Climate Division: NM 7

NWS Call Sign:

Elevation: 3,060 Feet Lat: 32°07N

Lon: 103°11W

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	.41	.22	.95	1949	11	1.55	1983	.00+	1999	3.1	1.2	.1	.0	.00	.00	.02	.09	.17	.26	.37	.51	.70	1.03	1.38
Feb	.48	.36	.90	1989	16	1.48	1973	.00+	1999	2.6	1.4	.2	.0	.00	.00	.00	.09	.19	.30	.43	.59	.83	1.23	1.62
Mar	.34	.27	1.08	1970	6	1.03	1987	.00+	1998	2.3	1.1	.1	.0	.00	.00	.00	.06	.13	.21	.30	.42	.58	.86	1.14
Apr	.57	.34	2.20	1969	12	2.99	1981	.00+	1998	2.7	1.3	.3	@	.00	.00	.04	.15	.26	.38	.53	.71	.97	1.40	1.83
May	1.70	1.27	3.47	1992	25	8.01	1992	.00+	2000	4.3	2.9	.8	.5	.00	.17	.47	.74	1.02	1.32	1.68	2.11	2.71	3.68	4.63
Jun	1.64	1.15	2.21	1967	25	5.86	1986	.00	1998	4.6	3.1	1.1	.5	.05	.16	.39	.62	.88	1.18	1.54	2.00	2.63	3.70	4.76
Jul	1.83	1.57	2.30	1988	10	6.83	1988	.00	2000	4.4	3.1	1.2	.6	.01	.08	.26	.48	.77	1.12	1.56	2.16	3.01	4.52	6.04
Aug	1.98	1.25	3.99	1966	22	6.06	1971	.00	1975	5.1	3.2	1.3	.7	.09	.26	.55	.84	1.15	1.50	1.91	2.43	3.14	4.31	5.46
Sep	2.36	1.78	4.00	1958	25	7.64	1980	.00	2000	5.7	3.6	1.6	.7	.09	.28	.61	.96	1.33	1.76	2.26	2.90	3.77	5.22	6.66
Oct	1.23	.74	5.64	1960	17	4.71	1985	.00+	1999	3.9	2.3	.8	.3	.00	.01	.07	.19	.36	.60	.92	1.37	2.06	3.31	4.62
Nov	.63	.25	2.36	1983	5	3.30	1978	.00+	1999	2.6	1.2	.3	.1	.00	.00	.00	.06	.17	.30	.48	.73	1.09	1.74	2.39
Dec	.58	.25	2.26	1986	22	4.35	1986	.00+	2000	2.6	1.4	.4	.1	.00	.00	.00	.00	.04	.15	.33	.59	.99	1.73	2.50
Ann	13.75	13.55	5.64	Oct 1960	17	8.01	May 1992	.00+	Dec 2000	43.9	25.8	8.2	3.5	7.04	8.18	9.72	10.95	12.08	13.20	14.39	15.75	17.43	19.96	22.21

+ 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

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

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151 Patton Avenue
Asheville, North Carolina 28801
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Station: JAL, NM

COOP ID: 294346

Climate Division: NM 7

NWS Call Sign:

Elevation: 3,060 Feet

Lat: 32°07N

Lon: 103°11W

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	1.7	.8	#	#	7.3	1983	1	8.6	1983	15	1982	13	1	1983	1.0	.6	.2	@	.0	.6	.3	.1	.0
Feb	.5	.0	#	0	3.0	1973	22	5.5	1973	2	1985	1	#+	1988	.3	.3	@	.0	.0	.1	.0	.0	.0
Mar	.1	.0	#	0	2.8	1989	4	3.1	1989	3	1989	4	#+	1989	.1	.1	.0	.0	.0	.1	@	.0	.0
Apr	.0	.0	0	0	.5	1983	5	.5	1983	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	#	1975	21	#	1975	.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	.1	.0	0	0	1.0	1993	30	1.0	1993	0	0	0	0	0	.1	@	.0	.0	.0	.0	.0	.0	.0
Nov	1.0	.0	#	0	8.5	1976	13	16.0	1976	8	1976	13	1	1976	.3	.2	.2	.1	.0	.2	.2	.1	.0
Dec	.9	.0	#	0	5.5	1982	31	6.8	1982	5	1982	31	#+	1992	.5	.5	.1	@	.0	.2	@	@	.0
Ann	4.3	.8	N/A	N/A	8.5	Nov 1976	13	16.0	Nov 1976	15	Jan 1982	13	1+	Jan 1983	2.3	1.7	.5	.1	.0	1.2	.5	.2	.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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Elevation: 3,060 Feet

Lat: 32° 07N

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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	4/29	4/24	4/20	4/17	4/14	4/11	4/08	4/04	3/30
32	4/23	4/16	4/11	4/07	4/03	3/30	3/26	3/21	3/15
28	4/12	4/04	3/29	3/24	3/20	3/15	3/10	3/04	2/24
24	3/28	3/20	3/14	3/09	3/04	2/27	2/22	2/16	2/07
20	3/16	3/06	2/27	2/21	2/15	2/10	2/04	1/27	1/15
16	3/04	2/21	2/13	2/06	1/30	1/24	1/16	1/06	12/19
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	10/12	10/17	10/21	10/24	10/27	10/30	11/03	11/06	11/12
32	10/20	10/25	10/29	11/01	11/04	11/06	11/09	11/13	11/18
28	10/25	10/31	11/05	11/08	11/12	11/16	11/20	11/24	11/30
24	11/03	11/09	11/14	11/18	11/22	11/25	11/29	12/04	12/10
20	11/11	11/20	11/26	12/01	12/06	12/11	12/17	12/23	1/03
16	11/24	12/06	12/15	12/22	12/30	1/07	1/16	1/28	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	216	209	204	200	196	192	187	182	175
32	236	228	223	218	214	209	204	199	191
28	272	260	251	244	237	230	222	214	202
24	294	283	275	269	262	256	249	241	230
20	339	320	309	301	293	286	279	270	258
16	>365	>365	>365	346	331	320	309	297	282

* 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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Elevation: 3,060 Feet Lat: 32°07N Lon: 103°11W

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	657	428	270	95	13	0	0	0	9	82	380	615	2549
60	502	296	144	34	2	0	0	0	0	26	249	461	1714
57	411	223	88	15	0	0	0	0	0	10	183	370	1300
55	353	179	59	8	0	0	0	0	0	5	145	312	1061
50	216	93	16	0	0	0	0	0	0	1	71	181	578
32	5	0	0	0	0	0	0	0	0	0	0	0	5

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	371	496	761	976	1266	1437	1547	1495	1259	1006	616	408	11638
55	6	31	107	294	553	747	834	782	569	298	70	7	4298
57	2	18	74	241	491	687	772	720	509	242	48	3	3807
60	0	8	37	171	400	597	679	627	419	164	25	1	3128
65	0	0	8	82	256	447	524	472	278	65	6	0	2138
70	0	0	1	28	138	299	369	319	157	16	0	0	1327

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	182	313	525	742	1024	1203	1303	1253	1028	768	395	213	182	495	1020	1762	2786	3989	5292	6545	7573	8341	8736	8949
45	89	195	378	594	869	1053	1148	1098	878	613	263	108	89	284	662	1256	2125	3178	4326	5424	6302	6915	7178	7286
50	27	101	246	450	714	903	993	943	729	462	152	42	27	128	374	824	1538	2441	3434	4377	5106	5568	5720	5762
55	2	37	129	311	559	753	838	788	581	316	69	6	2	39	168	479	1038	1791	2629	3417	3998	4314	4383	4389
60	0	10	52	187	406	603	683	633	434	186	21	0	0	10	62	249	655	1258	1941	2574	3008	3194	3215	3215
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	182	256	381	492	653	765	843	823	676	498	285	198	182	438	819	1311	1964	2729	3572	4395	5071	5569	5854	6052

(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.

- 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/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