

Climatography of the United States

No. 20

1971-2000

Station: TATUM, NM

COOP ID: 298713

Climate Division: NM 7

NWS Call Sign:

Elevation: 4,100 Feet Lat: 33° 16N

Lon: 103° 19W

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	53.8	23.5	38.7	82	1950	21	43.8	1999	-16+	1962	11	33.7	1973	816	0	.0	.0	21.7	1.9	28.3	.2
Feb	59.1	26.6	42.9	86+	1962	12	50.2	2000	-15	1951	1	36.6	1973	621	0	.0	.0	23.2	1.3	22.1	.1
Mar	66.8	31.8	49.3	92+	1971	27	57.2	1974	2	1948	11	45.5	1996	487	0	.0	.2	29.0	.1	16.4	.0
Apr	74.3	39.9	57.1	97+	1965	22	62.0	1981	10	1973	9	48.8	1983	263	25	.0	1.0	29.1	.0	6.4	.0
May	82.4	49.9	66.2	107	2000	25	74.4	1996	27+	1967	2	62.2	1983	84	120	.5	7.0	30.9	.0	.4	.0
Jun	90.3	58.6	74.5	115	1994	28	80.8	1990	39	1973	20	70.8	1973	7	290	3.7	18.1	30.0	.0	.0	.0
Jul	91.3	62.7	77.0	110+	1958	14	82.4	1980	49+	1973	15	72.6	1976	0	372	3.0	21.6	31.0	.0	.0	.0
Aug	89.5	61.2	75.4	107	1969	17	79.1	2000	46	1973	26	70.6	1971	3	323	.7	17.9	31.0	.0	.0	.0
Sep	82.8	54.2	68.5	105	1948	5	74.5	1998	28	1973	28	61.3	1974	53	158	.3	8.0	29.8	.0	.1	.0
Oct	74.7	42.8	58.8	98+	1979	8	62.5	1998	11	1993	30	53.4	1976	213	19	.0	1.1	30.3	@	3.1	.0
Nov	62.8	31.1	47.0	86	1967	16	52.4	1999	0	1957	23	40.0	1972	543	2	.0	.0	25.9	.3	17.8	.0
Dec	54.7	24.3	39.5	82	1958	4	44.5	1981	-8	1983	29	30.7	1983	792	0	.0	.0	22.4	1.8	26.9	.3
Ann	73.5	42.2	57.9	115	Jun 1994	28	82.4	Jul 1980	-16+	Jan 1962	11	30.7	Dec 1983	3882	1309	8.2	74.9	334.3	5.4	121.5	.6

+ 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

088-A

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: TATUM, NM

COOP ID: 298713

Climate Division: NM 7

NWS Call Sign:

Elevation: 4,100 Feet Lat: 33°16N

Lon: 103°19W

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	.36	.23	1.09	1968	21	1.59	1979	.00+	2000	1.8	1.2	.1	.0	.00	.00	.00	.00	.12	.24	.35	.48	.65	.92	1.17
Feb	.37	.25	1.36	1961	20	1.90	1973	.00+	2000	2.2	1.2	.3	.0	.00	.00	.00	.00	.13	.24	.35	.49	.67	.97	1.25
Mar	.53	.33	1.80	1969	15	2.26	1999	.00+	1996	1.9	1.1	.3	.1	.00	.00	.06	.13	.22	.32	.46	.63	.88	1.31	1.75
Apr	.49	.30	1.45	1969	11	2.52	1997	.00+	1993	2.2	1.3	.3	@	.00	.00	.03	.12	.21	.32	.45	.61	.84	1.22	1.61
May	2.02	1.41	4.65	1969	6	8.82	1992	.00+	2000	4.7	3.6	1.2	.5	.00	.09	.36	.66	1.00	1.39	1.87	2.47	3.32	4.77	6.20
Jun	2.20	1.77	3.14	1999	20	6.95	1999	.00	1990	4.9	3.8	1.5	.6	.10	.29	.62	.94	1.29	1.68	2.13	2.70	3.48	4.77	6.02
Jul	2.43	1.87	3.14	1991	14	6.37	1991	.27	1980	5.2	4.3	1.8	.8	.37	.58	.93	1.26	1.61	1.99	2.43	2.97	3.69	4.86	5.98
Aug	2.87	2.19	2.75	1953	5	9.62	1974	.17	1994	6.6	5.0	1.8	.8	.22	.41	.78	1.18	1.62	2.12	2.73	3.49	4.55	6.33	8.09
Sep	2.79	2.42	4.80	1980	26	7.10	1974	.10	2000	5.7	4.6	1.8	.9	.49	.73	1.14	1.52	1.91	2.33	2.82	3.40	4.18	5.44	6.65
Oct	1.41	.99	5.55	1981	11	9.67	1981	.00+	1996	3.7	2.7	.8	.3	.00	.00	.07	.29	.55	.86	1.24	1.73	2.42	3.60	4.81
Nov	.73	.52	1.82	1978	4	2.24	2000	.00+	1999	2.3	1.6	.5	.2	.00	.00	.09	.25	.39	.55	.72	.94	1.22	1.68	2.14
Dec	.51	.24	1.32	1991	22	2.60	1991	.00+	1996	2.5	1.5	.2	.1	.00	.00	.00	.02	.12	.24	.40	.60	.90	1.43	1.95
Ann	16.71	16.14	5.55	Oct 1981	11	9.67	Oct 1981	.00+	May 2000	43.7	31.9	10.6	4.3	9.23	10.54	12.29	13.68	14.93	16.18	17.49	18.98	20.81	23.55	25.97

+ 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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Station: TATUM, NM

COOP ID: 298713

Climate Division: NM 7

NWS Call Sign:

Elevation: 4,100 Feet

Lat: 33°16N

Lon: 103°19W

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	1.0	.0	#	0	4.0	1983	19	5.5	1992	2	1991	21	#+	1991	.4	.3	.1	.0	.0	.0	.0	.0	.0
Feb	1.9	.0	#	0	14.0	1988	5	15.0	1988	5	1973	22	#+	1997	.3	.3	.1	.1	@	.2	.1	.1	.0
Mar	.4	.0	#	0	4.0	1972	30	4.0	1972	2	1984	6	#+	1996	.2	.2	@	.0	.0	.1	.0	.0	.0
Apr	#	.0	#	0	#	1975	10	#+	1975	2	1996	5	#	1996	.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	.1	.0	0	0	2.0	1991	31	2.0	1991	0	0	0	0	0	.1	@	.0	.0	.0	.0	.0	.0	.0
Nov	.2	.0	0	0	3.0	1993	16	3.0	1993	0	0	0	0	0	.1	.1	@	.0	.0	.0	.0	.0	.0
Dec	.5	.0	#	0	2.5	1997	23	5.0	1997	3	1997	23	#+	1999	.4	.2	.0	.0	.0	.5	.1	.0	.0
Ann	4.1	.0	N/A	N/A	14.0	Feb 1988	5	15.0	Feb 1988	5	Feb 1973	22	#+	Dec 1999	1.5	1.1	.2	.1	@	.8	.2	.1	.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	5/17	5/12	5/09	5/07	5/04	5/02	4/29	4/26	4/22
32	5/10	5/04	4/30	4/27	4/24	4/21	4/17	4/13	4/08
28	4/26	4/20	4/16	4/12	4/09	4/06	4/02	3/29	3/23
24	4/14	4/08	4/04	3/31	3/28	3/25	3/21	3/17	3/11
20	4/09	4/01	3/26	3/21	3/16	3/11	3/06	3/01	2/20
16	3/22	3/14	3/09	3/04	2/27	2/23	2/18	2/12	2/04
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	9/22	9/27	10/01	10/05	10/08	10/11	10/14	10/18	10/23
32	10/03	10/09	10/13	10/17	10/20	10/24	10/27	11/01	11/06
28	10/14	10/20	10/24	10/28	10/31	11/04	11/08	11/12	11/18
24	10/23	10/30	11/03	11/07	11/11	11/14	11/18	11/23	11/29
20	10/31	11/07	11/11	11/16	11/19	11/23	11/27	12/02	12/09
16	11/07	11/15	11/21	11/25	11/30	12/04	12/09	12/15	12/23
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	176	169	164	160	156	152	147	142	136
32	201	193	188	183	179	174	169	164	156
28	227	219	214	209	205	200	196	190	183
24	251	243	237	232	227	222	217	211	202
20	279	269	261	254	248	241	235	227	216
16	309	297	289	282	275	268	261	252	241

* 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	816	621	487	263	84	7	0	3	53	213	543	792	3882
60	661	481	336	156	32	0	0	0	16	105	403	637	2827
57	568	400	253	105	15	0	0	0	7	61	324	544	2277
55	506	348	202	78	9	0	0	0	3	40	275	483	1944
50	356	225	100	29	2	0	0	0	0	11	172	337	1232
32	20	10	0	0	0	0	0	0	0	0	8	20	58

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	227	314	537	752	1059	1273	1395	1344	1095	830	457	251	9534
55	0	7	25	139	355	583	682	631	409	157	34	2	3024
57	0	3	14	107	300	523	620	569	352	115	22	1	2626
60	0	0	5	67	223	434	527	476	272	66	11	0	2081
65	0	0	0	25	120	290	372	323	158	19	2	0	1309
70	0	0	0	7	51	165	227	183	78	3	0	0	714

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	94	170	335	528	828	1045	1152	1093	861	590	255	106	94	264	599	1127	1955	3000	4152	5245	6106	6696	6951	7057
45	38	88	208	384	673	895	997	938	712	443	148	47	38	126	334	718	1391	2286	3283	4221	4933	5376	5524	5571
50	7	33	108	253	518	745	842	783	562	301	69	9	7	40	148	401	919	1664	2506	3289	3851	4152	4221	4230
55	0	4	43	143	368	595	687	628	418	171	20	0	0	4	47	190	558	1153	1840	2468	2886	3057	3077	3077
60	0	0	7	63	230	445	532	474	282	79	2	0	0	0	7	70	300	745	1277	1751	2033	2112	2114	2114
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	126	187	291	383	531	654	741	707	553	406	224	140	126	313	604	987	1518	2172	2913	3620	4173	4579	4803	4943

(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