

Climatography of the United States

No. 20

1971-2000

Station: AMISTAD 5 SSW, NM

COOP ID: 290377

Climate Division: NM 3

NWS Call Sign:

Elevation: 4,445 Feet Lat: 35° 52N

Lon: 103° 10W

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	48.0	17.2	32.6	80	1948	8	40.0	1986	-20	1959	4	23.0	1979	1004	0	.0	.0	16.8	3.8	29.8	1.1
Feb	53.0	20.7	36.9	81	1970	17	44.4	2000	-20	1951	1	28.3	1978	788	0	.0	.0	19.2	2.2	24.5	.6
Mar	60.6	27.7	44.2	91	1971	27	49.5	1972	-6	1948	5	40.2	1984	646	0	.0	.1	26.5	.6	19.6	.0
Apr	68.5	36.3	52.4	95+	1965	22	58.0	1981	10	1979	4	44.7	1997	385	7	.0	.3	28.3	@	9.0	.0
May	76.9	46.3	61.6	101	2000	24	68.3+	1996	25	1967	2	55.7	1983	161	56	.1	3.1	30.8	.0	.7	.0
Jun	86.6	56.0	71.3	108+	1957	29	78.1	1990	37+	1970	4	66.9	1989	24	212	2.1	13.2	30.0	.0	.0	.0
Jul	90.3	61.0	75.7	107+	1957	3	80.8	1980	45	1955	19	72.2	1972	1	331	2.2	20.2	31.0	.0	.0	.0
Aug	87.9	59.8	73.9	105	1959	3	79.1	2000	42	1974	11	70.5	1974	5	280	.5	15.3	31.0	.0	.0	.0
Sep	80.7	50.8	65.8	102	1995	6	72.7	1998	29	1983	21	60.6	1974	74	97	.1	5.8	29.8	.0	.4	.0
Oct	71.2	38.8	55.0	94+	1950	13	58.2	1973	6	1993	31	50.4	1984	313	3	.0	.5	30.0	.1	5.2	.0
Nov	58.0	26.8	42.4	88	1980	8	49.3	1999	-11	1976	28	34.0	1972	678	0	.0	.0	23.2	.6	21.1	.1
Dec	48.6	18.5	33.6	81	1955	23	41.2	1980	-12+	1961	12	23.1	1983	975	0	.0	.0	16.9	3.1	28.5	1.1
Ann	69.2	38.3	53.8	108+	Jun 1957	29	80.8	Jul 1980	-20+	Jan 1959	4	23.0	Jan 1979	5054	986	5.0	58.5	313.5	10.4	138.8	2.9

+ 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

005-A

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No. 20
1971-2000**

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

Station: AMISTAD 5 SSW, NM

COOP ID: 290377

Climate Division: NM 3

NWS Call Sign:

Elevation: 4,445 Feet Lat: 35° 52N

Lon: 103° 10W

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	.28	.28	.57	2001	28	.85	1991	.00+	1998	2.1	.9	.1	.0	.00	.00	.07	.14	.19	.25	.31	.37	.46	.59	.73
Feb	.31	.21	.75	1951	24	1.28	1987	.00+	1999	2.1	1.2	.1	.0	.00	.00	.00	.04	.09	.16	.25	.37	.54	.84	1.15
Mar	.71	.41	1.32	1979	21	2.61	2000	.00+	1989	3.2	1.7	.4	.1	.00	.03	.12	.22	.34	.48	.65	.86	1.17	1.68	2.20
Apr	.87	.58	1.31	1949	18	3.31	1997	.00+	1996	3.9	2.5	.4	.1	.00	.07	.21	.34	.48	.65	.84	1.07	1.40	1.94	2.47
May	2.19	1.91	2.80	1991	20	5.63	1972	.62	2000	5.5	4.0	1.5	.5	.55	.75	1.07	1.35	1.63	1.93	2.26	2.65	3.16	3.96	4.72
Jun	1.95	2.01	2.60	1995	3	5.37	1993	.00	1990	5.8	3.8	1.4	.4	.14	.35	.66	.95	1.25	1.57	1.95	2.41	3.02	4.03	5.00
Jul	2.66	2.33	2.71	1982	30	8.36	1982	.10	1987	6.8	4.9	2.0	.6	.40	.62	1.01	1.38	1.76	2.18	2.66	3.25	4.04	5.34	6.58
Aug	2.84	2.62	2.86	1974	11	6.42	1981	.66	1983	6.9	5.0	1.7	.5	.72	.98	1.40	1.76	2.12	2.50	2.93	3.43	4.09	5.13	6.11
Sep	1.61	1.13	2.20	1982	30	4.21	1985	.12	2000	4.4	2.7	1.1	.3	.16	.27	.49	.71	.96	1.23	1.56	1.96	2.52	3.44	4.34
Oct	1.16	.47	4.00	2000	24	6.17	2000	.00+	1989	3.0	2.3	.8	.3	.00	.00	.10	.25	.44	.68	.98	1.38	1.95	2.95	3.97
Nov	.61	.39	1.80	1978	4	3.20	1978	.00+	1989	2.8	1.7	.2	.1	.00	.02	.09	.17	.27	.39	.54	.74	1.01	1.49	1.98
Dec	.40	.34	.83	1959	16	1.61	1991	.00+	1989	1.9	1.4	.2	.0	.00	.00	.05	.12	.20	.28	.38	.50	.68	.96	1.25
Ann	15.59	15.15	4.00	Oct 2000	24	8.36	Jul 1982	.00+	Feb 1999	48.4	32.1	9.9	2.9	9.77	10.84	12.24	13.33	14.30	15.26	16.26	17.37	18.74	20.75	22.51

+ 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: AMISTAD 5 SSW, NM

COOP ID: 290377

Climate Division: NM 3

NWS Call Sign:

Elevation: 4,445 Feet

Lat: 35° 52N

Lon: 103° 10W

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	2.9	1.5	#	0	8.0	1990	19	15.0	1983	4+	1997	12	#+	2000	.9	.7	.4	.2	.0	.4	.1	.0	.0
Feb	3.3	.0	#	0	10.0	1990	20	14.0	1983	3	1997	14	#+	1998	1.0	1.0	.6	.1	@	.2	.1	.0	.0
Mar	2.1	.0	#	0	6.0	1983	19	10.0	1984	3	1999	19	#+	1999	.8	.7	.4	.1	.0	.3	.1	.0	.0
Apr	.7	.0	#	0	6.0	1979	3	6.0	1979	4	1997	25	#+	1997	.3	.2	.1	@	.0	.2	.1	.0	.0
May	.3	.0	0	0	4.0	1978	3	7.0	1978	0	0	0	0	0	.1	.1	.1	.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	.3	.0	#	0	5.0	1984	16	5.0	1984	#	1997	25	#	1997	.2	.2	@	@	.0	.0	.0	.0	.0
Nov	.9	.0	#	0	4.0	1982	27	4.0	1982	2+	1996	30	#+	2000	.5	.3	.1	.0	.0	.2	.0	.0	.0
Dec	3.5	3.0	#	0	8.0	1997	23	9.0	1978	7	1987	29	1	1987	1.1	1.0	.6	.2	.0	.4	.2	.0	.0
Ann	14.0	4.5	N/A	N/A	10.0	Feb 1990	20	15.0	Jan 1983	7	Dec 1987	29	1	Dec 1987	4.9	4.2	2.3	.6	@	1.7	.6	.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	5/17	5/13	5/11	5/09	5/07	5/05	5/02	4/30	4/27
32	5/11	5/07	5/04	5/02	4/29	4/27	4/25	4/22	4/18
28	5/02	4/27	4/24	4/21	4/18	4/15	4/12	4/08	4/03
24	4/18	4/13	4/10	4/07	4/04	4/01	3/29	3/25	3/20
20	4/10	4/04	3/31	3/27	3/24	3/21	3/17	3/13	3/07
16	4/07	3/30	3/24	3/19	3/14	3/10	3/05	2/27	2/19
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	9/22	9/26	9/28	10/01	10/03	10/05	10/08	10/10	10/14
32	9/28	10/03	10/06	10/08	10/11	10/13	10/16	10/19	10/23
28	10/11	10/16	10/19	10/21	10/24	10/26	10/29	11/01	11/06
24	10/20	10/24	10/27	10/30	11/01	11/04	11/06	11/09	11/14
20	10/26	10/31	11/04	11/08	11/11	11/14	11/18	11/22	11/27
16	11/06	11/12	11/16	11/19	11/23	11/26	11/29	12/03	12/09
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	164	159	155	152	149	146	142	138	133
32	183	176	171	167	164	160	156	151	145
28	208	201	196	192	188	185	181	176	169
24	231	224	219	215	211	207	203	198	191
20	258	249	242	236	231	226	221	214	205
16	287	275	266	259	253	246	239	230	218

* 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	1004	788	646	385	161	24	1	5	74	313	678	975	5054
60	849	648	491	253	78	5	0	0	23	176	528	820	3871
57	756	564	400	185	45	2	0	0	9	110	441	727	3239
55	694	508	340	146	29	0	0	0	4	76	385	665	2847
50	542	378	204	70	8	0	0	0	0	24	256	513	1995
32	116	54	3	0	0	0	0	0	0	0	18	99	290

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	135	190	380	611	918	1178	1353	1298	1012	712	330	147	8264
55	0	0	4	68	234	489	640	585	326	75	7	0	2428
57	0	0	1	47	188	430	578	523	271	48	3	0	2089
60	0	0	0	24	128	344	485	431	195	21	0	0	1628
65	0	0	0	7	56	212	331	280	97	3	0	0	986
70	0	0	0	0	18	110	187	148	36	0	0	0	499

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	50	103	237	422	711	966	1132	1072	817	517	182	63	50	153	390	812	1523	2489	3621	4693	5510	6027	6209	6272
45	15	44	130	284	556	816	977	917	667	371	96	25	15	59	189	473	1029	1845	2822	3739	4406	4777	4873	4898
50	0	11	55	172	403	666	822	762	520	236	40	2	0	11	66	238	641	1307	2129	2891	3411	3647	3687	3689
55	0	1	19	85	263	517	667	607	375	124	10	0	0	1	20	105	368	885	1552	2159	2534	2658	2668	2668
60	0	0	1	29	140	369	512	452	244	53	0	0	0	0	1	30	170	539	1051	1503	1747	1800	1800	1800
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	80	125	213	318	454	607	731	700	522	359	167	83	80	205	418	736	1190	1797	2528	3228	3750	4109	4276	4359

(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/normal/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