

**Climatology
of the United States
No. 20**

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

Station: LORDSBURG 4 SE, NM

1971-2000

COOP ID: 295079

Climate Division: NM 8

NWS Call Sign:

Elevation: 4,250 Feet Lat: 32° 18N

Lon: 108° 39W

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	59.3	25.1	42.2	80	1967	31	45.9	1993	-9	1962	15	38.3	1973	706	0	.0	.0	27.2	.1	26.2	.0
Feb	64.5	27.6	46.1	85	1957	14	51.5	1996	3	1972	3	41.2	1974	531	0	.0	.0	26.9	.3	21.7	.0
Mar	70.9	32.1	51.5	93	1989	12	57.2	1972	11+	1971	3	46.1	1973	419	1	.0	.1	30.7	.0	16.9	.0
Apr	79.6	37.6	58.6	100	2000	27	64.7	2000	12	1976	2	52.2	1983	222	30	@	1.5	29.9	.0	8.2	.0
May	88.8	46.9	67.9	106	2000	29	74.2	2000	24	1978	9	63.3	1977	62	149	.8	11.8	31.0	.0	.7	.0
Jun	98.1	57.0	77.6	114	1994	27	84.0	1994	35+	1968	9	72.9	1991	2	378	9.3	26.5	30.0	.0	.0	.0
Jul	97.9	63.9	80.9	110+	1958	11	84.2	1980	49+	1983	1	78.2	1986	0	494	8.8	27.6	31.0	.0	.0	.0
Aug	95.1	62.3	78.7	109	1969	16	84.4	1994	42	1979	24	75.1	1990	0	425	3.2	25.3	31.0	.0	.0	.0
Sep	90.5	55.3	72.9	104+	1948	3	77.8	1997	36	1982	29	69.8	1975	7	243	.7	15.3	30.0	.0	.0	.0
Oct	80.5	42.7	61.6	98+	2000	1	65.7	1988	19+	1970	28	57.9	1976	141	36	.0	3.3	30.9	.0	2.7	.0
Nov	67.7	30.1	48.9	86	1999	10	54.0	1995	8	1993	27	44.1	2000	482	0	.0	.0	29.3	@	19.4	.0
Dec	59.1	25.2	42.2	76+	1970	1	46.5	1977	-14	1978	9	38.0	1978	708	0	.0	.0	27.2	.1	25.5	.1
Ann	79.3	42.2	60.8	114	Jun 1994	27	84.4	Aug 1994	-14	Dec 1978	9	38.0	Dec 1978	3280	1756	22.8	111.4	355.1	.5	121.3	.1

+ 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

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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Lon: 108°39W

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	.92	.74	1.56	1997	4	3.47	1993	.00+	2000	4.7	2.8	.3	@	.00	.00	.09	.27	.45	.65	.88	1.17	1.56	2.19	2.85
Feb	.76	.75	1.20	1953	28	1.73	1993	.00+	1999	4.2	2.4	.3	.0	.00	.00	.15	.30	.44	.59	.76	.97	1.26	1.71	2.15
Mar	.80	.68	.85	1983	19	2.36	1973	.00+	1984	4.2	2.7	.3	.0	.00	.00	.17	.30	.44	.59	.78	1.00	1.30	1.80	2.29
Apr	.26	.16	.74	1951	20	1.68	1988	.00+	2000	1.7	.7	.1	.0	.00	.00	.00	.03	.08	.15	.22	.32	.46	.71	.95
May	.38	.23	1.10	1973	14	2.08	1992	.00+	2000	2.1	1.0	.2	@	.00	.00	.00	.02	.10	.20	.31	.46	.67	1.04	1.40
Jun	.48	.20	3.00	1981	28	3.60	1981	.00+	1995	2.2	1.1	.2	@	.00	.00	.01	.07	.15	.25	.39	.57	.82	1.28	1.75
Jul	1.99	1.88	2.66	1981	31	5.34	1981	.31	1993	8.0	5.2	1.0	.2	.46	.64	.93	1.19	1.45	1.73	2.04	2.41	2.89	3.67	4.39
Aug	1.90	1.88	2.75	1957	6	3.62	1984	.37	1973	7.5	4.6	1.2	.3	.49	.67	.95	1.19	1.43	1.68	1.97	2.30	2.73	3.42	4.06
Sep	1.26	1.24	2.00	1958	12	4.89	1975	.00+	2000	4.8	2.8	.9	.2	.00	.21	.47	.67	.86	1.07	1.31	1.58	1.94	2.53	3.09
Oct	1.33	.98	1.72	1985	16	5.01	1972	.00+	1999	4.6	2.9	.7	.3	.00	.00	.22	.47	.71	.99	1.30	1.68	2.21	3.06	3.90
Nov	.84	.54	1.58	1994	12	2.88	1994	.00+	1999	2.9	2.0	.5	.1	.00	.00	.16	.30	.45	.61	.81	1.05	1.38	1.93	2.48
Dec	1.29	.71	1.38	1962	1	4.55	1991	.00+	1996	4.2	2.9	.7	.1	.00	.00	.13	.34	.57	.84	1.17	1.59	2.17	3.15	4.13
Ann	12.21	11.71	3.00	Jun 1981	28	5.34	Jul 1981	.00+	Sep 2000	51.1	31.1	6.4	1.2	7.14	8.05	9.25	10.19	11.04	11.88	12.76	13.75	14.97	16.78	18.37

+ 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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NWS Call Sign:

Elevation: 4,250 Feet

Lat: 32° 18N

Lon: 108° 39W

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	.9	.0	#	0	3.0	1973	2	6.0	1973	6	1985	13	6	1985	.6	.5	.1	.0	.0	.1	.0	.0	.0
Feb	.6	.0	#	0	4.0	1973	22	4.0+	1985	#+	1997	25	#+	1997	.4	.3	.1	.0	.0	.0	.0	.0	.0
Mar	.5	.0	#	0	4.5	1975	27	8.5	1975	1	1991	21	#+	1991	.3	.2	@	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.5	1975	7	.5	1975	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	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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	2.0	1975	29	2.0+	1976	#	1983	26	#	1983	.2	.2	.0	.0	.0	.0	.0	.0	.0
Dec	1.2	.0	#	0	6.0	1987	26	11.0	1987	6+	1987	26	1	1978	.6	.5	.2	@	.0	.1	@	@	.0
Ann	3.5	.0	N/A	N/A	6.0	Dec 1987	26	11.0	Dec 1987	6+	Dec 1987	26	6	Jan 1985	2.1	1.7	.4	@	.0	.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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Climate Division: NM 8

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Elevation: 4,250 Feet

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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	5/23	5/18	5/15	5/12	5/10	5/07	5/04	5/01	4/26
32	5/15	5/09	5/04	4/30	4/27	4/23	4/19	4/15	4/08
28	5/05	4/28	4/24	4/19	4/16	4/12	4/08	4/03	3/27
24	4/23	4/15	4/09	4/04	3/30	3/25	3/20	3/14	3/05
20	3/29	3/21	3/15	3/10	3/05	2/28	2/23	2/17	2/09
16	3/10	2/28	2/20	2/14	2/08	2/02	1/26	1/18	1/05
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	10/05	10/10	10/13	10/16	10/18	10/20	10/23	10/26	10/31
32	10/11	10/16	10/19	10/22	10/25	10/28	10/31	11/03	11/08
28	10/17	10/22	10/26	10/29	11/01	11/04	11/07	11/11	11/16
24	10/28	11/01	11/05	11/07	11/10	11/13	11/15	11/18	11/23
20	11/08	11/13	11/17	11/21	11/24	11/27	12/01	12/05	12/10
16	11/15	11/22	11/26	11/30	12/04	12/07	12/11	12/16	12/24
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	171	167	164	161	158	154	150	145
32	201	194	189	185	181	176	172	167	160
28	222	214	208	203	198	194	189	183	175
24	252	242	236	230	224	219	213	207	197
20	294	283	276	269	263	257	251	243	233
16	346	326	315	306	298	291	283	273	261

* 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	706	531	419	222	62	2	0	0	7	141	482	708	3280
60	551	391	272	123	21	0	0	0	0	56	335	553	2302
57	458	309	193	78	9	0	0	0	0	27	252	460	1786
55	396	257	147	54	5	0	0	0	0	15	202	398	1474
50	246	140	61	17	0	0	0	0	0	2	99	249	814
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	317	393	605	797	1110	1366	1517	1448	1227	918	508	315	10521
55	0	6	39	161	402	676	804	735	537	220	20	0	3600
57	0	2	23	125	344	616	742	673	477	170	10	0	3182
60	0	0	9	80	263	526	649	580	387	106	3	0	2603
65	0	0	1	30	149	378	494	425	243	36	0	0	1756
70	0	0	0	8	69	239	339	272	123	7	0	0	1057

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	106	193	356	547	846	1107	1247	1182	968	657	271	103	106	299	655	1202	2048	3155	4402	5584	6552	7209	7480	7583
45	33	84	211	399	691	957	1092	1027	818	503	150	32	33	117	328	727	1418	2375	3467	4494	5312	5815	5965	5997
50	2	22	98	260	536	807	937	872	668	351	62	3	2	24	122	382	918	1725	2662	3534	4202	4553	4615	4618
55	0	0	34	140	383	657	782	717	518	213	12	0	0	0	34	174	557	1214	1996	2713	3231	3444	3456	3456
60	0	0	3	56	235	507	627	562	369	100	1	0	0	0	3	59	294	801	1428	1990	2359	2459	2460	2460
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	154	216	322	431	558	660	779	751	611	453	255	147	154	370	692	1123	1681	2341	3120	3871	4482	4935	5190	5337

(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