

Climatography of the United States

No. 20

1971-2000

Station: HOBBS, NM

COOP ID: 294026

Climate Division: NM 7

NWS Call Sign:

Elevation: 3,615 Feet Lat: 32°43N

Lon: 103°08W

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	56.7	29.1	42.9	83	1953	11	47.8	1986	-7	1962	11	36.6	1985	686	0	.0	.0	23.4	1.3	20.3	@
Feb	62.9	33.1	48.0	87+	1962	12	54.6	1976	-2	1985	2	42.5	1978	476	0	.0	.0	24.9	.8	13.7	@
Mar	70.7	38.9	54.8	95	1971	27	61.6	1974	8	1948	10	48.7	1987	323	6	.0	.1	29.9	@	6.6	.0
Apr	78.5	46.6	62.6	98+	1987	18	67.8	1986	24+	1973	8	57.0	1983	131	57	.0	1.7	29.7	.0	1.4	.0
May	86.1	55.6	70.9	107+	1951	30	77.9	2000	34	1970	1	66.6	1976	37	218	1.1	10.0	31.0	.0	.0	.0
Jun	92.8	63.0	77.9	114	1998	27	84.8	1990	42	1970	2	73.7	1979	1	389	4.1	21.6	30.0	.0	.0	.0
Jul	93.5	66.6	80.1	110	1958	15	86.0	1998	53	1952	9	74.8	1976	0	466	4.1	24.8	31.0	.0	.0	.0
Aug	91.2	65.4	78.3	107	1952	9	82.0	1999	51	1988	28	72.9	1971	0	413	1.3	20.7	31.0	.0	.0	.0
Sep	85.4	59.2	72.3	105+	1948	5	77.5	1998	32	1976	8	66.0	1974	18	237	.2	10.1	29.9	.0	@	.0
Oct	77.3	49.1	63.2	98	2000	3	66.6	1979	18	1991	31	56.9	1976	110	53	.0	1.5	30.7	.0	.5	.0
Nov	65.2	37.3	51.3	88	1952	1	56.4	1981	4	1976	29	44.9	2000	416	3	.0	.0	27.3	.1	8.3	.0
Dec	57.9	30.1	44.0	83	1958	8	48.9	1977	-1	1983	24	37.6	1983	651	0	.0	.0	24.7	.9	18.7	.1
Ann	76.5	47.8	62.2	114	Jun 1998	27	86.0	Jul 1998	-7	Jan 1962	11	36.6	Jan 1985	2849	1842	10.8	90.5	343.5	3.1	69.5	.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/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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No. 20 1971-2000

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

Station: HOBBS, NM

COOP ID: 294026

Climate Division: NM 7

NWS Call Sign:

Elevation: 3,615 Feet Lat: 32°43N

Lon: 103°08W

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	.51	.32	1.21	1949	11	2.03	1993	.00+	2000	3.2	1.8	.2	.1	.00	.02	.09	.16	.24	.34	.46	.62	.84	1.21	1.59
Feb	.66	.42	1.39	1988	5	2.21	1973	.00+	1999	2.9	1.8	.4	@	.00	.00	.03	.11	.22	.36	.53	.77	1.13	1.74	2.38
Mar	.48	.36	1.65	2000	22	2.98	2000	.00+	1996	2.2	1.2	.3	.1	.00	.00	.07	.14	.22	.32	.44	.59	.80	1.17	1.53
Apr	.78	.55	1.65	1954	12	2.86	1981	.00+	2000	2.7	1.6	.6	.1	.00	.00	.03	.14	.28	.45	.66	.94	1.33	2.00	2.70
May	2.58	1.96	5.20	1992	22	13.83	1992	.00	2000	5.2	3.6	1.8	.6	.14	.38	.77	1.15	1.56	2.01	2.53	3.18	4.07	5.53	6.95
Jun	2.03	1.91	2.36	1979	9	5.37	2000	.00	1990	4.9	3.6	1.6	.6	.04	.16	.42	.70	1.02	1.40	1.87	2.47	3.30	4.73	6.16
Jul	2.42	1.77	4.47	1988	19	9.41	1988	.22	1980	5.1	3.8	1.4	.7	.16	.31	.62	.95	1.32	1.75	2.27	2.94	3.86	5.42	6.97
Aug	2.52	1.96	4.45	1984	9	9.06	1984	.11	1994	5.7	4.1	1.5	.7	.25	.44	.78	1.13	1.51	1.94	2.44	3.07	3.93	5.36	6.76
Sep	3.13	1.87	7.50	1995	15	12.99	1995	.08	2000	5.7	4.3	2.0	.8	.16	.33	.70	1.12	1.61	2.18	2.87	3.77	5.04	7.20	9.37
Oct	1.45	1.01	5.60	1985	9	8.15	1985	.00+	1989	3.5	2.6	.8	.3	.00	.02	.12	.28	.49	.78	1.15	1.66	2.42	3.78	5.19
Nov	.87	.40	3.80	1978	4	4.33	1978	.00+	1999	2.7	1.6	.6	.1	.00	.00	.00	.12	.28	.48	.72	1.04	1.50	2.30	3.10
Dec	.72	.28	1.55	1986	22	5.08	1986	.00+	2000	2.8	1.6	.5	.1	.00	.00	.00	.01	.09	.23	.44	.75	1.22	2.11	3.04
Ann	18.15	18.97	7.50	Sep 1995	15	13.83	May 1992	.00+	Dec 2000	46.6	31.6	11.7	4.2	9.18	10.70	12.76	14.40	15.92	17.43	19.03	20.85	23.12	26.53	29.58

+ 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: HOBBS, NM

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Climate Division: NM 7

NWS Call Sign:

Elevation: 3,615 Feet

Lat: 32°43N

Lon: 103°08W

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	2.1	1.4	#	0	9.0	1983	1	12.5	1983	3	1994	29	#+	2000	1.1	.6	.2	.1	.0	.2	.0	.0	.0
Feb	1.6	.0	#	0	6.5	1988	5	14.3	1973	6+	1988	5	1	1986	.6	.4	.2	.1	.0	.2	.2	.2	.0
Mar	.3	.0	#	0	3.5	1989	4	5.0	1989	#+	1988	3	#+	1988	.2	.1	@	.0	.0	.0	.0	.0	.0
Apr	.5	.0	0	0	6.0	1983	7	9.0	1983	0	0	0	0	0	.1	.1	.1	@	.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	.2	.0	0	0	4.5	1976	29	4.5	1976	0	0	0	0	0	.1	.1	@	.0	.0	.0	.0	.0	.0
Nov	1.0	.0	#	0	10.0	1980	25	16.5	1980	12	1976	12	1	1976	.3	.2	.1	.1	@	.0	.0	.0	.0
Dec	1.3	.0	#	0	4.5	1987	13	9.5	1986	5	1987	14	#+	1996	.7	.3	.2	.0	.0	.4	.2	.1	.0
Ann	7.0	1.4	N/A	N/A	10.0	Nov 1980	25	16.5	Nov 1980	12	Nov 1976	12	1+	Feb 1986	3.1	1.8	.8	.3	@	.8	.4	.3	.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	4/25	4/21	4/18	4/15	4/12	4/10	4/07	4/04	3/31
32	4/16	4/11	4/08	4/05	4/02	3/30	3/27	3/24	3/19
28	4/11	4/04	3/31	3/27	3/24	3/20	3/16	3/12	3/06
24	3/27	3/19	3/13	3/08	3/04	2/27	2/22	2/16	2/08
20	3/17	3/07	2/28	2/22	2/16	2/11	2/05	1/28	1/19
16	3/09	2/25	2/17	2/10	2/03	1/28	1/20	1/10	12/23
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	10/07	10/14	10/18	10/22	10/26	10/30	11/03	11/08	11/14
32	10/17	10/24	10/29	11/02	11/06	11/10	11/14	11/19	11/26
28	11/01	11/06	11/10	11/14	11/17	11/20	11/23	11/27	12/02
24	11/07	11/14	11/19	11/23	11/27	11/30	12/05	12/09	12/16
20	11/14	11/22	11/28	12/03	12/08	12/13	12/18	12/24	1/01
16	11/24	12/04	12/12	12/19	12/26	1/02	1/10	1/21	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	214	208	203	199	196	192	189	184	178
32	242	233	227	222	217	212	207	201	192
28	262	253	247	242	237	232	227	221	212
24	296	286	279	273	267	262	255	248	238
20	328	316	308	301	294	287	280	272	260
16	>365	>365	343	330	321	311	302	292	277

* 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	686	476	323	131	37	1	0	0	18	110	416	651	2849
60	531	340	191	55	11	0	0	0	4	40	279	497	1948
57	440	263	128	27	4	0	0	0	0	18	208	406	1494
55	383	214	94	15	2	0	0	0	0	9	166	349	1232
50	245	116	34	2	0	0	0	0	0	1	85	215	698
32	10	0	0	0	0	0	0	0	0	0	0	5	15

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	347	448	707	916	1204	1378	1489	1435	1209	966	578	377	11054
55	7	18	88	241	493	688	776	722	519	262	54	8	3876
57	2	11	60	193	433	628	714	660	459	208	35	3	3406
60	0	4	30	131	347	538	621	567	372	138	17	0	2765
65	0	0	6	57	218	389	466	413	237	53	3	0	1842
70	0	0	0	17	119	249	317	265	130	13	0	0	1110

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	174	275	474	686	964	1148	1254	1199	976	730	363	193	174	449	923	1609	2573	3721	4975	6174	7150	7880	8243	8436
45	83	166	330	539	809	998	1099	1044	827	575	236	100	83	249	579	1118	1927	2925	4024	5068	5895	6470	6706	6806
50	30	84	203	397	654	848	944	889	678	426	131	37	30	114	317	714	1368	2216	3160	4049	4727	5153	5284	5321
55	2	33	102	259	499	698	789	734	531	282	53	5	2	35	137	396	895	1593	2382	3116	3647	3929	3982	3987
60	0	6	39	145	348	548	634	579	386	156	9	0	0	6	45	190	538	1086	1720	2299	2685	2841	2850	2850
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	148	214	335	453	620	737	818	794	640	463	247	163	148	362	697	1150	1770	2507	3325	4119	4759	5222	5469	5632

(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