Climatography
of the United States
No. 20
1971-2000

Station: BINGHAM 2 NE, NM

COOP ID: 290983

Climate Division: NM 5   **NWS Call Sign:**   **Elevation: 5,551 Feet   Lat: 33°55N   Lon: 106°21W**

	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	50.0	20.5	35.3	70+	1950	19	40.2	2000	-12	1962	11	31.2	1987	922	0	.0	.0	17.4	1.0	29.4	.2
Feb	56.0	24.7	40.4	77	1957	13	46.5	1995	-8	1951	1	36.9	1985	690	0	.0	.0	22.7	.4	24.6	@
Mar	63.1	29.7	46.4	84	1971	27	51.1	1972	5	1965	4	41.6	1991	577	0	.0	.0	29.6	.0	20.3	.0
Apr	70.6	35.2	52.9	90	1965	23	57.6	1989	12	1949	3	47.0	1983	366	3	.0	.0	29.4	.0	10.2	.0
May	79.6	44.6	62.1	98+	1951	27	69.3	2000	22	1975	6	58.0	1975	147	57	.0	1.9	31.0	.0	1.2	.0
Jun	89.2	53.4	71.3	105+	1983	22	77.0	1994	35	1988	2	68.0	1979	13	202	.7	14.3	30.0	.0	.0	.0
Jul	89.7	58.4	74.1	103+	1951	8	77.5	1980	48	1987	6	70.5	1991	0	281	.5	17.1	31.0	.0	.0	.0
Aug	87.2	57.6	72.4	100	1972	1	76.9	1994	47	1990	8	69.6	1974	4	234	@	10.5	31.0	.0	.0	.0
Sep	81.4	50.6	66.0	98	1948	3	70.7	1998	32	1970	26	61.7	1988	61	91	.0	2.1	30.0	.0	.0	.0
Oct	71.3	39.0	55.2	89	2000	1	59.5	1992	11	1970	28	50.2	1976	309	4	.0	.0	30.6	.0	3.9	.0
Nov	58.6	27.2	42.9	79	1973	7	49.5	1999	7	1957	23	38.1	1979	663	0	.0	.0	25.0	.1	21.8	.1
Dec	50.1	20.3	35.2	71	1958	4	40.1	1994	-6	1987	15	31.3	1987	924	0	.0	.0	18.0	.7	28.9	.1
Ann	70.6	38.4	54.5	105+	Jun 1983	22	77.5	Jul 1980	-12	Jan 1962	11	31.2	Jan 1987	4676	872	1.2	45.9	325.7	2.2	140.3	.4

+ 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

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	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	.36	.78	1999	29	1.25	1983	.00+	2000	3.8	1.6	.1	.0	.00	.00	.08	.16	.24	.32	.41	.52	.68	.92	1.15
Feb	.39	.30	.87	1996	1	1.20+	1997	.00+	1999	3.4	1.5	.2	.0	.00	.00	.09	.16	.23	.30	.39	.50	.64	.88	1.11
Mar	.43	.24	.91	2001	8	1.57	1983	.00+	1997	3.0	1.3	.1	.0	.00	.00	.04	.11	.19	.28	.39	.53	.72	1.05	1.38
Apr	.35	.20	1.05	1985	27	1.61	1997	.00+	1996	1.5	.9	.1	@	.00	.00	.03	.08	.14	.21	.30	.42	.59	.87	1.16
May	.54	.60	1.02	1991	21	1.62	1992	.00+	2000	3.9	1.8	.3	.1	.00	.00	.00	.19	.33	.45	.58	.73	.92	1.23	1.51
Jun	.79	.75	1.79	1996	29	4.05	1996	.00+	1998	4.2	2.1	.5	.1	.00	.06	.18	.31	.44	.59	.76	.98	1.28	1.78	2.27
Jul	2.53	2.14	3.10	1996	25	9.07	1998	.69	1980	6.9	4.4	1.2	.3	.69	.93	1.30	1.62	1.93	2.26	2.62	3.05	3.61	4.49	5.31
Aug	2.46	2.24	2.27	1988	3	8.17	1988	.41	1998	7.2	5.0	1.3	.4	.58	.81	1.17	1.49	1.81	2.15	2.53	2.98	3.57	4.50	5.39
Sep	1.61	1.36	2.01	1991	6	4.74	1997	.00	2000	6.6	4.0	.9	.1	.23	.44	.72	.94	1.17	1.41	1.67	1.99	2.40	3.05	3.67
Oct	1.33	.82	1.78	1954	5	4.46	1972	.00+	1995	3.5	2.7	.9	.3	.00	.07	.26	.46	.68	.93	1.25	1.63	2.18	3.11	4.03
Nov	.66	.48	1.67	1986	2	2.53	1986	.00+	1999	2.9	1.8	.3	.1	.00	.05	.16	.27	.38	.50	.64	.81	1.05	1.45	1.84
Dec	.53	.36	1.04	1959	15	1.92	1991	.00+	1996	2.8	1.9	.1	@	.00	.00	.06	.15	.25	.36	.49	.66	.90	1.29	1.68
Ann	12.03	11.88	3.10	Jul 1996	25	9.07	Jul 1998	.00+	Sep 2000	49.7	29.0	6.0	1.4	7.66	8.47	9.53	10.34	11.08	11.80	12.54	13.38	14.40	15.90	17.22

+ 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

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Climate Division: NM 5   **NWS Call Sign:**   **Elevation: 5,551 Feet**   **Lat: 33°55N**   **Lon: 106°21W**

										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	2.3	1.0	#	0	5.0	1983	20	9.0	1987	8	1987	20	1	1987	1.1	.7	.3	.1	.0	1.2	.7	.3	.0
Feb	1.9	1.0	#	0	5.0	1986	9	9.0	1987	2+	1998	19	#+	1998	.9	.6	.3	.1	.0	.3	.0	.0	.0
Mar	1.3	.3	#	0	4.0	2000	21	6.0+	2000	1	1987	29	#+	1998	.9	.7	.1	.0	.0	.1	.0	.0	.0
Apr	.2	.0	#	0	2.5	1983	4	2.5	1983	2	1983	4	#	1983	.2	.2	.0	.0	.0	.1	.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	.8	.0	#	0	4.0	1972	31	4.0+	1999	4+	1999	17	#+	1999	.2	.2	.2	.0	.0	.1	.1	.0	.0
Nov	.1	.0	#	0	2.0	2000	7	2.0	2000	2	2000	7	#+	2000	.1	.1	.0	.0	.0	.1	.0	.0	.0
Dec	2.7	.5	#	0	7.0	1987	13	13.0	1987	7	1987	18	1	1987	1.0	.8	.4	.2	.0	.8	.4	.1	.0
Ann	9.3	2.8	N/A	N/A	7.0	Dec 1987	13	13.0	Dec 1987	8	Jan 1987	20	1+	Dec 1987	4.4	3.3	1.3	.4	.0	2.7	1.2	.4	.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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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
 and Information Service

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

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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	5/27	5/22	5/18	5/15	5/12	5/09	5/06	5/03	4/28
32	5/17	5/12	5/08	5/05	5/02	4/29	4/25	4/22	4/16
28	5/03	4/27	4/24	4/20	4/17	4/14	4/11	4/07	4/02
24	4/22	4/16	4/12	4/09	4/06	4/03	3/30	3/26	3/21
20	4/13	4/06	3/31	3/26	3/22	3/18	3/13	3/07	2/28
16	3/28	3/19	3/12	3/07	3/02	2/25	2/19	2/13	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	9/28	10/02	10/05	10/08	10/10	10/13	10/15	10/19	10/23
32	10/07	10/12	10/15	10/18	10/21	10/24	10/27	10/30	11/04
28	10/10	10/15	10/19	10/22	10/25	10/28	11/01	11/04	11/10
24	10/23	10/28	10/31	11/03	11/06	11/09	11/11	11/15	11/20
20	10/28	11/03	11/08	11/12	11/16	11/20	11/24	11/29	12/05
16	11/07	11/14	11/19	11/23	11/26	11/30	12/04	12/09	12/16
Freeze Free Period									
Temp (F)	**Probability of longer than indicated freeze free period (Days)**								
	.10	**.20**	**.30**	**.40**	**.50**	**.60**	**.70**	**.80**	**.90**
36	167	161	157	154	150	147	143	139	133
32	192	185	180	176	172	167	163	158	151
28	209	203	198	194	190	187	183	178	171
24	235	228	222	218	213	209	204	199	191
20	270	259	251	244	238	232	225	218	207
16	306	293	284	276	269	262	254	245	232

* 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	922	690	577	366	147	13	0	4	61	309	663	924	4676
60	767	550	422	229	67	2	0	0	16	175	513	769	3510
57	674	466	332	159	36	0	0	0	5	111	425	676	2884
55	612	410	275	119	22	0	0	0	2	77	368	614	2499
50	457	275	150	47	5	0	0	0	0	25	236	459	1654
32	40	8	0	0	0	0	0	0	0	0	0	8	42	98

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	140	242	447	627	933	1178	1304	1253	1020	718	336	141	8339
55	0	0	9	56	242	488	591	540	332	82	5	0	2345
57	0	0	4	36	194	428	529	478	275	54	2	0	2000
60	0	0	0	16	132	340	436	385	196	25	0	0	1530
65	0	0	0	3	57	202	281	234	91	4	0	0	872
70	0	0	0	0	17	92	140	105	29	0	0	0	383

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	32	82	229	402	701	955	1080	1024	806	510	159	36	32	114	343	745	1446	2401	3481	4505	5311	5821	5980	6016
45	3	26	111	262	546	805	925	869	656	360	70	1	3	29	140	402	948	1753	2678	3547	4203	4563	4633	4634
50	0	2	39	139	391	655	770	714	506	222	18	0	0	2	41	180	571	1226	1996	2710	3216	3438	3456	3456
55	0	0	8	53	243	505	615	559	357	107	0	0	0	0	8	61	304	809	1424	1983	2340	2447	2447	2447
60	0	0	0	13	118	355	460	404	217	28	0	0	0	0	0	13	131	486	946	1350	1567	1595	1595	1595
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	56	113	216	320	473	605	700	675	517	348	151	58	56	169	385	705	1178	1783	2483	3158	3675	4023	4174	4232

(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:
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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.
       Compete documentation for the 1971-2000 Normals is available on the internet from:
          www.ncdc.noaa.gov/oa/climate/normals/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 are 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/normals.html
 U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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