

Climatography of the United States

No. 20

1971-2000

Station: STANLEY 1 NNE, NM

COOP ID: 298518

Climate Division: NM 6

NWS Call Sign:

Elevation: 6,380 Feet Lat: 35° 10N

Lon: 105° 58W

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	42.9	15.9	29.4	67	2000	17	34.7	2000	-30	1971	7	22.5	1979	1103	0	.0	.0	8.1	4.1	30.7	2.0
Feb	49.3	20.0	34.7	70+	1962	12	42.0	1995	-16	1963	12	29.5	1974	850	0	.0	.0	14.6	2.0	27.2	.7
Mar	57.0	24.9	41.0	79+	1971	24	46.9	1972	0	1971	1	36.6	1977	745	0	.0	.0	24.1	.3	26.5	@
Apr	64.7	30.7	47.7	85+	1965	23	51.9	2000	7	1973	4	40.8	1973	519	0	.0	.0	27.2	@	17.6	.0
May	74.1	39.6	56.9	95	2000	30	64.3	1996	12	1973	2	53.3	1973	267	15	.0	.5	30.8	.0	4.4	.0
Jun	83.9	48.2	66.1	101	1971	24	70.7	1990	28	1963	9	62.8	1983	57	90	.1	6.5	30.0	.0	@	.0
Jul	86.7	53.6	70.2	100	1971	13	73.1	1980	40+	1960	19	68.0	1991	3	163	@	10.0	31.0	.0	.0	.0
Aug	83.9	52.4	68.2	98	1972	1	72.0	1994	38+	1985	13	65.6	1990	19	116	.0	4.0	31.0	.0	.0	.0
Sep	77.9	45.1	61.5	93	2000	5	65.3	1998	22	1983	21	58.0	1988	133	28	.0	.5	30.0	.0	1.2	.0
Oct	67.6	33.4	50.5	86	1980	2	53.5	1992	3	1991	31	45.3	1984	451	0	.0	.0	29.5	.1	13.5	.0
Nov	53.7	23.6	38.7	75	1980	10	44.0	1999	-18	1976	28	31.3	1992	790	0	.0	.0	20.0	.7	26.4	.3
Dec	44.3	16.0	30.2	67	1987	5	37.1	1980	-18	1990	24	21.5	1992	1081	0	.0	.0	10.1	3.7	30.5	1.7
Ann	65.5	33.6	49.6	101	Jun 1971	24	73.1	Jul 1980	-30	Jan 1971	7	21.5	Dec 1992	6018	412	.1	21.5	286.4	10.9	178.0	4.7

+ 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: 1954-2001

(3) Derived from 1971-2000 serially complete daily data

085-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: STANLEY 1 NNE, NM

COOP ID: 298518

Climate Division: NM 6

NWS Call Sign:

Elevation: 6,380 Feet Lat: 35°10N

Lon: 105°58W

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	.50	.50	.46	1957	4	1.10	1995	.00+	1998	4.0	2.2	.0	.0	.00	.07	.17	.25	.33	.41	.51	.63	.78	1.03	1.28
Feb	.35	.34	.52	1979	17	.96	1979	.00+	1999	3.2	1.5	@	.0	.00	.00	.12	.18	.24	.30	.37	.45	.55	.71	.87
Mar	.61	.39	.80	1984	28	2.15	1998	.05	1972	3.9	2.0	.3	.0	.05	.09	.17	.25	.35	.45	.58	.74	.96	1.34	1.71
Apr	.59	.38	.90	1998	27	2.44	1985	.00+	1996	3.4	1.8	.3	.0	.00	.00	.09	.19	.30	.43	.57	.75	1.00	1.40	1.80
May	1.12	1.08	1.30	1969	6	3.93	1994	.00+	1998	4.7	2.9	.7	.1	.00	.00	.27	.47	.66	.87	1.11	1.41	1.80	2.45	3.08
Jun	1.50	.87	2.20	2000	3	5.41	1986	.05	1976	5.3	3.3	.9	.3	.06	.13	.29	.49	.72	.99	1.34	1.79	2.44	3.55	4.68
Jul	2.20	2.18	2.05	1979	17	5.19	1998	.18	1987	9.3	5.9	1.2	.3	.53	.74	1.06	1.35	1.63	1.93	2.27	2.67	3.19	4.02	4.79
Aug	2.74	2.79	2.30	1997	24	5.83	1993	.36	1973	10.1	6.5	1.7	.4	.86	1.12	1.51	1.84	2.16	2.49	2.85	3.28	3.83	4.68	5.47
Sep	1.56	1.49	1.77	1997	21	3.15	1988	.20	2000	6.3	4.1	1.0	.1	.34	.49	.71	.92	1.13	1.35	1.59	1.89	2.28	2.90	3.48
Oct	1.40	.87	2.55	1959	30	4.09+	1985	.00+	1995	4.5	3.1	1.1	.3	.00	.04	.20	.40	.63	.90	1.25	1.69	2.32	3.41	4.51
Nov	.70	.68	1.39	1994	12	2.00	1978	.00+	1999	3.8	2.2	.3	@	.00	.06	.18	.29	.41	.54	.69	.87	1.13	1.55	1.96
Dec	.51	.37	.75	1969	4	2.37	1997	.00+	1996	3.4	1.9	.1	.0	.00	.00	.06	.14	.23	.34	.47	.63	.86	1.24	1.62
Ann	13.78	13.49	2.55	Oct 1959	30	5.83	Aug 1993	.00+	Nov 1999	61.9	37.4	7.6	1.5	8.41	9.39	10.68	11.68	12.58	13.47	14.40	15.43	16.71	18.59	20.24

+ 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: 1954-2001

(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: STANLEY 1 NNE, NM

COOP ID: 298518

Climate Division: NM 6

NWS Call Sign:

Elevation: 6,380 Feet

Lat: 35° 10N

Lon: 105° 58W

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	4.9	4.5	1	1	5.0	1974	1	11.0	1987	9	1987	21	4	1987	2.4	2.2	.5	.1	.0	8.7	3.8	1.3	.0
Feb	4.1	3.0	1	#	6.0	1974	21	13.0	1979	6	1979	17	2	1979	1.9	1.4	.5	.1	.0	3.7	1.4	.3	.0
Mar	3.2	2.0	#	#	10.0	1973	30	12.5	1973	10	1973	30	1	1994	1.2	1.0	.3	.1	@	1.2	.4	.2	@
Apr	1.8	.0	#	#	7.0	1973	3	9.0+	1997	7	1973	3	1	1973	.6	.6	.2	.1	.0	.7	.3	.1	.0
May	.1	.0	#	0	3.0	1978	3	3.0	1978	1	1990	2	#+	1990	.1	.1	@	.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	#	1971	18	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.7	.0	#	0	5.0	1991	31	8.0	1984	7	1979	30	#+	1999	.3	.3	.1	@	.0	.3	.1	@	.0
Nov	2.9	1.3	#	#	13.0	1992	21	16.0	1992	13	1992	22	3	1992	1.2	1.0	.4	.1	@	2.2	1.1	.4	.1
Dec	4.2	2.0	1	#	7.0	1997	2	23.7	1997	8+	1997	3	5	1992	2.2	1.9	.6	.2	.0	5.5	2.6	1.1	.0
Ann	21.9	12.8	N/A	N/A	13.0	Nov 1992	21	23.7	Dec 1997	13	Nov 1992	22	5	Dec 1992	9.9	8.5	2.6	.7	@	22.3	9.7	3.4	.1

+ 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	6/12	6/06	6/02	5/30	5/27	5/24	5/21	5/17	5/12
32	5/28	5/23	5/20	5/17	5/15	5/12	5/10	5/06	5/02
28	5/21	5/16	5/12	5/08	5/05	5/02	4/28	4/24	4/18
24	5/10	5/04	4/30	4/26	4/23	4/19	4/16	4/11	4/05
20	5/04	4/27	4/23	4/18	4/15	4/11	4/07	4/02	3/26
16	4/17	4/11	4/06	4/02	3/29	3/25	3/21	3/17	3/10
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	9/14	9/18	9/20	9/22	9/24	9/26	9/29	10/01	10/05
32	9/20	9/23	9/26	9/29	10/01	10/03	10/06	10/09	10/13
28	9/24	9/29	10/02	10/05	10/08	10/10	10/13	10/16	10/21
24	10/01	10/06	10/10	10/14	10/17	10/20	10/24	10/28	11/02
20	10/16	10/21	10/25	10/28	10/31	11/02	11/05	11/09	11/14
16	10/25	10/31	11/03	11/07	11/10	11/13	11/17	11/20	11/26
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	139	132	128	123	119	116	111	107	100
32	158	151	146	142	138	135	130	126	119
28	177	170	164	159	155	151	146	140	133
24	197	190	185	181	176	172	168	163	156
20	225	216	209	204	198	193	187	181	171
16	250	241	235	230	225	220	215	209	201

* 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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Lon: 105°58W

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	1103	850	745	519	267	57	3	19	133	451	790	1081	6018
60	948	710	590	373	150	15	0	2	48	299	640	926	4701
57	855	626	497	290	96	5	0	0	21	214	550	833	3987
55	793	570	435	238	68	2	0	0	10	165	490	771	3542
50	638	430	285	130	23	0	0	0	1	70	349	616	2542
32	152	51	5	0	0	0	0	0	0	0	35	150	393

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	72	125	283	471	771	1023	1183	1120	885	573	235	92	6833
55	0	0	0	19	126	335	470	407	205	24	0	0	1586
57	0	0	0	11	92	278	408	345	155	12	0	0	1301
60	0	0	0	4	52	198	315	254	93	3	0	0	919
65	0	0	0	0	15	90	163	116	28	0	0	0	412
70	0	0	0	0	2	25	47	29	4	0	0	0	107

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	4	31	115	264	530	789	943	880	652	345	84	7	4	35	150	414	944	1733	2676	3556	4208	4553	4637	4644
45	0	4	44	156	379	639	788	725	502	212	26	0	0	4	48	204	583	1222	2010	2735	3237	3449	3475	3475
50	0	0	8	69	238	489	633	570	355	102	4	0	0	0	8	77	315	804	1437	2007	2362	2464	2468	2468
55	0	0	0	19	118	340	478	415	214	28	0	0	0	0	0	19	137	477	955	1370	1584	1612	1612	1612
60	0	0	0	1	42	202	323	261	97	5	0	0	0	0	0	1	43	245	568	829	926	931	931	931
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	23	57	136	243	386	514	599	562	433	288	101	31	23	80	216	459	845	1359	1958	2520	2953	3241	3342	3373

(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