

Climatography of the United States

No. 20

1971-2000

Station: SMOKEY VALLEY, NV

COOP ID: 267620

Climate Division: NV 3

NWS Call Sign:

Elevation: 5,625 Feet Lat: 38°47N

Lon: 117°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	44.1	15.7	29.9	67	1969	7	38.7	1986	-20+	1957	28	21.1	1988	1089	0	.0	.0	8.3	3.9	29.3	2.6
Feb	50.2	21.5	35.9	76	1963	25	42.8	1995	-12	1989	6	29.4	1985	816	0	.0	.0	13.4	1.5	24.9	1.0
Mar	56.9	26.5	41.7	84	1966	30	48.4	1972	-8	1971	2	35.0	1985	722	0	.0	.0	23.4	.1	24.0	.1
Apr	64.6	31.3	48.0	85+	1966	1	53.6	1989	6+	1960	25	39.5	1975	514	2	.0	.0	27.3	.0	17.2	.0
May	73.4	38.8	56.1	93	1984	29	62.7	1992	14+	1954	1	50.1	1977	297	22	.0	.5	30.8	.0	6.0	.0
Jun	84.1	47.3	65.7	101	1950	29	69.3	1985	24	1950	8	60.5	1998	73	94	@	7.6	30.0	.0	.5	.0
Jul	91.1	53.6	72.4	102	1998	18	76.3	1996	33	1968	1	68.5	1983	4	232	.4	20.7	31.0	.0	.0	.0
Aug	89.1	52.1	70.6	101+	1972	12	73.6	1994	32+	1960	27	65.0	1976	14	187	.3	15.1	31.0	.0	.0	.0
Sep	80.5	43.3	61.9	102	1963	27	65.6	1990	20	1968	21	55.5	1986	140	48	.0	2.9	30.0	.0	2.2	.0
Oct	69.0	33.1	51.1	98+	1964	3	57.0	1988	7+	1971	30	45.1	1984	435	3	.0	.0	29.6	.1	14.0	.0
Nov	54.1	22.9	38.5	81	1959	1	45.9	1995	-5	1977	20	30.0	1994	794	0	.0	.0	19.6	.5	25.4	.2
Dec	45.1	15.6	30.4	68	1949	1	37.4	1977	-31	1988	26	21.9	1978	1074	0	.0	.0	9.0	3.3	29.1	2.0
Ann	66.9	33.5	50.2	102+	Jul 1998	18	76.3	Jul 1996	-31	Dec 1988	26	21.1	Jan 1988	5972	588	.7	46.8	283.4	9.4	172.6	5.9

+ 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: 1949-2001

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

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Climatography of the United States

No. 20

1971-2000

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

Station: SMOKEY VALLEY, NV

COOP ID: 267620

Climate Division: NV 3

NWS Call Sign:

Elevation: 5,625 Feet Lat: 38°47N

Lon: 117°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	.57	.43	1.00+	1952	14	1.83	1980	.00+	1998	3.9	2.0	.1	.0	.00	.00	.07	.16	.25	.37	.51	.69	.95	1.39	1.83
Feb	.61	.29	1.20	1976	7	2.05	1986	.00+	1999	4.0	1.8	.2	.1	.00	.00	.04	.11	.20	.32	.48	.70	1.02	1.59	2.18
Mar	.89	.58	1.43	1952	16	2.72	1978	.00+	1999	5.2	2.1	.4	.1	.00	.00	.09	.21	.36	.54	.76	1.07	1.49	2.24	3.00
Apr	.57	.21	.90	1982	11	2.80	1988	.00+	1989	3.7	1.6	.2	.0	.00	.01	.06	.12	.21	.32	.47	.67	.95	1.46	1.99
May	.72	.62	1.25	1977	24	2.40	1977	.00+	1992	4.2	2.0	.4	@	.00	.00	.09	.22	.35	.50	.68	.90	1.22	1.73	2.24
Jun	.49	.37	1.25	1968	7	1.55	1972	.00+	1994	3.3	1.7	.2	.0	.00	.00	.04	.13	.23	.33	.46	.61	.83	1.18	1.54
Jul	.61	.30	1.90	1961	3	4.12	1984	.00+	1995	2.6	1.5	.3	.1	.00	.00	.03	.10	.20	.32	.49	.71	1.03	1.59	2.18
Aug	.74	.57	1.08	1983	10	3.15	1983	.00+	1998	3.3	2.0	.3	.1	.00	.00	.08	.23	.37	.53	.72	.95	1.26	1.76	2.27
Sep	.63	.50	1.15	1982	26	2.57	1982	.00+	1993	3.3	1.8	.3	.1	.00	.00	.04	.12	.22	.34	.51	.74	1.06	1.65	2.25
Oct	.60	.54	1.21	1957	20	2.34	1974	.00+	1995	3.0	1.8	.2	.0	.00	.00	.08	.18	.28	.40	.55	.74	1.01	1.46	1.92
Nov	.49	.40	1.12	1965	17	1.34	1987	.00+	1993	3.4	1.6	.3	.0	.00	.00	.07	.15	.24	.34	.46	.61	.82	1.18	1.53
Dec	.33	.19	1.50	1966	6	1.33	1996	.00+	1998	2.9	1.2	@	.0	.00	.00	.00	.06	.12	.20	.29	.41	.57	.86	1.14
Ann	7.25	6.84	1.90	Jul 1961	3	4.12	Jul 1984	.00+	Mar 1999	42.8	21.1	2.9	.5	4.04	4.60	5.36	5.95	6.49	7.03	7.59	8.23	9.02	10.19	11.23

+ 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: 1949-2001

(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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1971-2000

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Station: SMOKEY VALLEY, NV

COOP ID: 267620

Climate Division: NV 3

NWS Call Sign:

Elevation: 5,625 Feet

Lat: 38°47N

Lon: 117°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	1.0	#	#	0	8.0	1999	23	8.0+	1999	8	1988	4	7	1988	.3	.3	.1	.1	.0	.0	.0	.0	.0
Feb	1.5	.0	1	0	12.0	1976	7	12.0	1976	13	1978	10	13	1978	.1	.1	.1	.1	.1	.0	.0	.0	.0
Mar	.9	.0	0	0	5.0	1987	15	5.5	1981	4	1981	13	1	1981	.3	.3	.1	.1	.0	.0	.0	.0	.0
Apr	1.3	.0	0	0	6.0	1999	7	17.0	1999	0	0	0	0	0	.4	.4	.2	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.2	.0	0	0	6.0	1978	11	12.0	1978	0	0	0	0	0	.5	.4	.1	.1	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1994	15	#	1994	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	5.9	#	N/A	N/A	12.0	Feb 1976	7	17.0	Apr 1999	13	Feb 1978	10	13	Feb 1978	1.6	1.5	.6	.5	.1	.0	.0	.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

Complete documentation available from:

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Station: SMOKEY VALLEY, NV

COOP ID: 267620

Climate Division: NV 3

NWS Call Sign:

Elevation: 5,625 Feet

Lat: 38° 47N

Lon: 117° 10W

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	6/28	6/21	6/16	6/12	6/09	6/05	6/01	5/27	5/21
32	6/14	6/08	6/03	5/30	5/26	5/23	5/19	5/14	5/08
28	5/29	5/22	5/18	5/14	5/10	5/06	5/02	4/27	4/20
24	5/21	5/13	5/07	5/01	4/26	4/21	4/16	4/10	4/02
20	4/29	4/22	4/18	4/14	4/10	4/06	4/02	3/29	3/22
16	4/18	4/09	4/02	3/28	3/22	3/17	3/12	3/05	2/24
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	9/02	9/07	9/10	9/14	9/17	9/20	9/23	9/26	10/02
32	9/11	9/16	9/20	9/23	9/26	9/29	10/02	10/06	10/11
28	9/17	9/23	9/27	9/30	10/04	10/07	10/10	10/15	10/20
24	10/01	10/07	10/12	10/16	10/19	10/23	10/27	10/31	11/06
20	10/14	10/20	10/23	10/26	10/29	11/01	11/04	11/08	11/13
16	10/21	10/27	10/31	11/03	11/06	11/10	11/13	11/17	11/23
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	126	117	110	104	99	94	88	82	72
32	148	139	132	127	122	117	112	105	96
28	174	164	158	152	146	141	135	128	118
24	211	199	190	182	175	168	160	152	139
20	225	217	211	206	202	197	192	186	178
16	259	248	241	234	228	222	216	208	198

* 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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Climate Division: NV 3 NWS Call Sign: Elevation: 5,625 Feet Lat: 38°47N Lon: 117°10W

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	1089	816	722	514	297	73	4	14	140	435	794	1074	5972
60	934	676	568	375	183	25	0	2	62	291	644	919	4679
57	841	592	478	296	129	11	0	0	33	216	554	826	3976
55	779	536	419	248	99	6	0	0	19	171	495	764	3536
50	626	398	282	149	43	1	0	0	4	83	353	609	2548
32	181	51	17	4	0	0	0	0	0	0	35	156	444

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	115	159	318	482	748	1011	1251	1196	898	591	231	105	7105
55	0	0	7	36	134	326	538	483	227	49	1	0	1801
57	0	0	4	24	102	271	476	421	181	31	0	0	1510
60	0	0	0	13	63	195	383	329	120	14	0	0	1117
65	0	0	0	2	22	94	232	187	48	3	0	0	588
70	0	0	0	0	6	31	104	77	12	0	0	0	230

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	10	38	118	257	506	772	1008	953	664	355	82	11	10	48	166	423	929	1701	2709	3662	4326	4681	4763	4774
45	0	6	47	141	358	622	853	798	515	222	27	0	0	6	53	194	552	1174	2027	2825	3340	3562	3589	3589
50	0	1	9	64	221	472	698	643	371	114	4	0	0	1	10	74	295	767	1465	2108	2479	2593	2597	2597
55	0	0	0	17	115	330	543	488	231	40	0	0	0	0	0	17	132	462	1005	1493	1724	1764	1764	1764
60	0	0	0	0	43	199	389	333	118	7	0	0	0	0	0	0	43	242	631	964	1082	1089	1089	1089
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	24	55	125	224	371	503	623	603	462	298	99	20	24	79	204	428	799	1302	1925	2528	2990	3288	3387	3407

(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