

Climatography of the United States

No. 20

1971-2000

Station: LAHONTAN DAM, NV

COOP ID: 264349

Climate Division: NV 1

NWS Call Sign:

Elevation: 4,150 Feet Lat: 39° 28N

Lon: 119° 04W

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	45.2	23.9	34.6	68	1971	19	41.9	1986	-16	1949	26	24.6	1982	944	0	.0	.0	11.0	3.4	28.1	.7
Feb	52.7	29.2	41.0	75	1986	26	48.3	1995	-17+	1989	6	28.4	1989	674	0	.0	.0	17.3	1.0	22.1	.2
Mar	59.5	34.2	46.9	80+	1966	31	52.8	1986	6	1971	1	42.3	1976	564	1	.0	.0	25.9	.1	14.8	.0
Apr	66.1	39.1	52.6	89	1987	27	59.5+	1990	20	1997	5	44.5	1975	390	18	.0	.0	28.3	.0	7.2	.0
May	75.3	47.3	61.3	100	1986	30	69.9	1992	24	1974	19	51.5	1977	192	76	@	1.7	30.8	.0	1.2	.0
Jun	85.5	54.9	70.2	106	1950	30	76.1	1986	32+	1952	12	64.4	1980	41	197	.8	10.6	30.0	.0	.1	.0
Jul	94.0	62.9	78.5	108	1988	22	83.8	1994	31	1978	5	72.7	1983	1	417	5.4	23.4	31.0	.0	.0	.0
Aug	92.5	61.3	76.9	107+	2000	1	81.1	1986	35	1978	22	68.0	1976	3	373	3.9	20.8	31.0	.0	.0	.0
Sep	83.4	52.8	68.1	102	1950	2	72.8	1987	29+	1965	17	62.4	1986	56	149	.2	8.2	30.0	.0	.4	.0
Oct	70.7	42.2	56.5	92+	1996	10	63.5	1988	16	1971	29	51.3	1981	289	23	.0	.4	30.0	.0	5.7	.0
Nov	55.6	31.5	43.6	76+	1960	2	51.9	1995	7+	1964	19	35.3	1994	643	0	.0	.0	21.4	.2	17.9	.0
Dec	46.5	23.9	35.2	69+	1977	3	42.3	1977	-15	1990	24	25.7	1990	924	0	.0	.0	11.7	2.4	28.0	.8
Ann	68.9	41.9	55.5	108	Jul 1988	22	83.8	Jul 1994	-17+	Feb 1989	6	24.6	Jan 1982	4721	1254	10.3	65.1	298.4	7.1	125.5	1.7

+ 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: 1948-2001

(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: LAHONTAN DAM, NV

COOP ID: 264349

Climate Division: NV 1

NWS Call Sign:

Elevation: 4,150 Feet Lat: 39°28N

Lon: 119°04W

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	.55	.36	1.43	1963	31	2.03	1980	.00	1972	4.9	2.2	.3	@	.02	.06	.13	.21	.30	.40	.52	.67	.88	1.24	1.59
Feb	.50	.42	.99	1986	19	2.02	1986	.00	1974	4.3	1.8	.2	@	.03	.08	.15	.23	.30	.39	.49	.61	.78	1.05	1.32
Mar	.54	.37	1.22	1985	11	1.97	1985	.00+	1997	4.0	1.6	.2	@	.00	.02	.07	.15	.24	.34	.48	.65	.90	1.33	1.77
Apr	.42	.28	.80	1952	26	1.52	1999	.00+	1992	3.4	1.4	.1	.0	.00	.02	.07	.14	.20	.29	.39	.51	.69	1.00	1.30
May	.59	.30	.87	1990	28	2.57	1995	.00+	1999	3.5	1.7	.1	.0	.00	.00	.03	.09	.19	.31	.47	.69	1.01	1.57	2.15
Jun	.40	.36	1.32	1970	27	1.32	1993	.00+	1999	2.6	1.2	.2	.0	.00	.00	.00	.11	.20	.29	.40	.52	.69	.97	1.24
Jul	.30	.08	1.30	1979	21	1.75	1971	.00+	2000	1.4	.9	.2	.1	.00	.00	.00	.00	.03	.09	.17	.30	.50	.88	1.28
Aug	.41	.11	2.00	1971	27	2.94	1983	.00+	2000	2.0	.9	.2	.1	.00	.00	.00	.01	.06	.14	.26	.44	.71	1.20	1.72
Sep	.37	.18	1.02	1955	18	1.96	1982	.00+	1995	2.3	1.0	.1	.0	.00	.00	.00	.02	.09	.17	.29	.43	.64	1.02	1.39
Oct	.33	.24	.75	1951	24	1.66	1972	.00+	1997	3.3	1.1	@	.0	.00	.00	.01	.06	.11	.19	.28	.40	.57	.86	1.17
Nov	.47	.25	.70	1978	11	1.51	1978	.00+	1995	4.1	1.7	.1	.0	.00	.00	.06	.13	.21	.30	.42	.57	.78	1.14	1.50
Dec	.42	.38	.72	1965	12	1.56	1977	.00+	2000	4.2	1.6	.1	.0	.00	.00	.09	.16	.24	.32	.42	.53	.69	.95	1.21
Ann	5.30	4.85	2.00	Aug 1971	27	2.94	Aug 1983	.00+	Dec 2000	40.0	17.1	1.8	.2	2.58	3.03	3.65	4.15	4.61	5.07	5.56	6.12	6.82	7.87	8.81

+ 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: LAHONTAN DAM, NV

COOP ID: 264349

Climate Division: NV 1

NWS Call Sign:

Elevation: 4,150 Feet

Lat: 39°28N

Lon: 119°04W

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	#	#	6.2	1971	13	8.5	1974	6	1971	13	1	1984	.8	.7	.2	.1	.0	1.0	.2	.0	.0
Feb	1.5	.8	#	0	3.4	1971	28	5.4	1971	3	1976	4	#+	1997	.7	.6	.1	.0	.0	.4	.0	.0	.0
Mar	.6	.0	#	0	6.2	1971	1	7.2	1971	5	1971	1	#+	1999	.3	.2	.1	.1	.0	.2	.1	@	.0
Apr	.1	.0	#	0	2.5	1995	16	2.5	1995	3	1999	6	#+	1999	.2	.1	.0	.0	.0	.0	.0	.0	.0
May	.1	.0	#	0	2.0	1971	21	2.0	1971	1	1971	21	#	1971	@	@	.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	#	1982	29	#+	1982	#	1982	29	#	1982	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.1	.0	#	0	.8	1971	28	1.3	1971	#	1999	7	#	1999	.1	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.2	.0	#	0	2.5	1983	20	2.5	1983	3	1985	18	#+	1999	.2	.1	.0	.0	.0	.0	.0	.0	.0
Dec	.9	.0	#	0	4.5	1994	13	5.5	1971	13	1978	18	1	1978	.6	.4	.1	.0	.0	.3	.2	.0	.0
Ann	5.6	.9	N/A	N/A	6.2+	Mar 1971	1	8.5	Jan 1974	13	Dec 1978	18	1+	Jan 1984	2.9	2.1	.5	.2	.0	1.9	.5	@	.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

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Station: LAHONTAN DAM, NV

COOP ID: 264349

Climate Division: NV 1

NWS Call Sign:

Elevation: 4,150 Feet

Lat: 39°28N

Lon: 119°04W

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	6/15	6/07	5/31	5/26	5/21	5/16	5/11	5/04	4/26
32	5/27	5/18	5/12	5/07	5/02	4/27	4/21	4/15	4/07
28	5/08	4/29	4/23	4/17	4/13	4/08	4/02	3/27	3/18
24	4/24	4/13	4/05	3/30	3/24	3/17	3/11	3/03	2/20
20	3/24	3/15	3/08	3/02	2/25	2/20	2/14	2/07	1/29
16	3/08	2/25	2/18	2/11	2/05	1/30	1/24	1/16	1/06
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	9/13	9/21	9/27	10/02	10/07	10/11	10/17	10/22	10/31
32	9/23	9/30	10/06	10/10	10/15	10/19	10/23	10/29	11/05
28	10/10	10/16	10/20	10/23	10/26	10/29	11/01	11/05	11/10
24	10/23	10/29	11/02	11/05	11/08	11/12	11/15	11/19	11/25
20	11/01	11/09	11/14	11/19	11/23	11/28	12/02	12/08	12/16
16	11/06	11/15	11/21	11/26	12/01	12/06	12/12	12/18	12/26
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	174	162	153	145	138	131	123	114	102
32	199	187	179	172	165	159	152	143	132
28	229	217	209	202	196	189	182	174	162
24	269	255	245	237	229	221	213	203	190
20	313	298	288	279	270	262	253	243	228
16	341	327	316	307	298	290	281	270	255

* 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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Station: LAHONTAN DAM, NV

COOP ID: 264349

Climate Division: NV 1 NWS Call Sign: Elevation: 4,150 Feet Lat: 39° 28N Lon: 119° 04W

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	944	674	564	390	192	41	1	3	56	289	643	924	4721
60	789	534	416	267	109	13	0	0	18	175	495	769	3585
57	696	452	332	205	71	5	0	0	8	121	409	676	2975
55	636	401	279	170	52	3	0	0	4	91	355	614	2605
50	492	275	169	95	20	0	0	0	0	39	231	468	1789
32	110	23	3	0	0	0	0	0	0	0	12	84	232

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	189	273	463	618	907	1146	1439	1393	1083	758	360	182	8811
55	2	7	26	97	246	459	726	680	397	136	12	0	2788
57	0	2	17	73	203	401	664	618	341	103	7	0	2429
60	0	0	8	45	148	318	571	525	261	65	2	0	1943
65	0	0	1	18	76	197	417	373	149	23	0	0	1254
70	0	0	0	5	31	104	272	233	70	6	0	0	721

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	30	91	219	376	652	907	1174	1130	823	486	152	35	30	121	340	716	1368	2275	3449	4579	5402	5888	6040	6075
45	5	30	113	245	499	757	1019	975	673	344	73	9	5	35	148	393	892	1649	2668	3643	4316	4660	4733	4742
50	0	3	47	141	354	609	864	820	524	216	24	0	0	3	50	191	545	1154	2018	2838	3362	3578	3602	3602
55	0	0	8	64	229	461	709	665	380	117	2	0	0	0	8	72	301	762	1471	2136	2516	2633	2635	2635
60	0	0	0	23	127	324	556	512	248	45	0	0	0	0	0	23	150	474	1030	1542	1790	1835	1835	1835
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	28	79	159	253	420	581	742	724	534	328	116	37	28	107	266	519	939	1520	2262	2986	3520	3848	3964	4001

(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/normal/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