

Climatography of the United States

No. 20

1971-2000

Station: LAS VEGAS AP, NV

COOP ID: 264436

Climate Division: NV 4

NWS Call Sign: LAS

Elevation: 2,127 Feet Lat: 36°05N

Lon: 115°09W

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	57.1	36.8	47.0	77	1975	26	52.5	1986	8	1963	13	41.6	1973	574	0	.0	.0	26.5	.1	9.1	.0
Feb	63.0	41.4	52.2	87	1986	26	58.7	1995	16	1989	7	48.1	1985	375	1	.0	.0	26.8	.1	3.2	.0
Mar	69.5	47.0	58.3	91	1966	31	65.0	1972	23+	1962	1	51.5	1973	244	20	.0	.0	30.7	.0	.6	.0
Apr	78.1	53.9	66.0	99+	1981	30	73.6	1989	31+	1955	3	57.5	1975	83	98	.0	3.5	30.0	.0	@	.0
May	87.8	62.9	75.4	109	1951	26	81.6	1984	40+	1950	5	68.6	1977	16	323	2.3	15.0	31.0	.0	.0	.0
Jun	98.9	72.3	85.6	115+	1954	22	90.3	1994	48	1993	6	80.0	1998	0	602	15.7	26.3	30.0	.0	.0	.0
Jul	104.1	78.2	91.2	116+	1959	11	94.2	1972	60	1987	19	87.6	1987	0	796	25.0	30.3	31.0	.0	.0	.0
Aug	101.8	76.7	89.3	116+	1979	1	93.1	1995	56	1968	24	84.5	1983	0	739	22.1	29.8	31.0	.0	.0	.0
Sep	93.8	68.8	81.3	113	1950	1	86.1	1979	46	1965	20	76.2+	1986	1	474	6.9	22.2	30.0	.0	.0	.0
Oct	80.8	56.5	68.7	103	1978	1	75.7	1988	26	1971	30	63.6	1971	57	157	.1	6.0	31.0	.0	.1	.0
Nov	66.0	44.0	55.0	87	1988	1	59.8	1995	21+	1952	27	49.4	1994	318	4	.0	.0	29.5	.0	2.0	.0
Dec	57.3	36.6	47.0	77	1980	3	53.5	1980	11	1990	23	41.0	1990	571	0	.0	.0	26.9	@	9.0	.0
Ann	79.9	56.3	68.1	116+	Aug 1979	1	94.2	Jul 1972	8	Jan 1963	13	41.0	Dec 1990	2239	3214	72.1	133.1	354.4	.2	24.0	.0

+ 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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No. 20 1971-2000

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

Station: LAS VEGAS AP, NV

COOP ID: 264436

Climate Division: NV 4

NWS Call Sign: LAS

Elevation: 2,127 Feet Lat: 36°05N

Lon: 115°09W

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	.59	.22	.74	1995	4	3.00	1995	.00+	2000	3.4	1.8	.3	.0	.00	.00	.00	.06	.16	.29	.46	.69	1.02	1.62	2.23
Feb	.69	.23	1.29	1993	8	2.89	1998	.00+	1997	3.5	1.8	.4	.1	.00	.00	.03	.09	.18	.31	.50	.76	1.15	1.89	2.66
Mar	.59	.25	1.20	1992	27	4.80	1992	.00+	1999	3.6	1.5	.4	@	.00	.00	.00	.04	.13	.26	.43	.67	1.03	1.66	2.31
Apr	.15	.05	.97	1965	12	.76	1988	.00+	2000	1.8	.5	@	.0	.00	.00	.00	.01	.03	.06	.11	.17	.26	.43	.61
May	.24	.14	.83	1987	16	.90	1987	.00+	2000	1.6	.7	.1	.0	.00	.00	.00	.01	.06	.12	.20	.29	.42	.65	.88
Jun	.08	.00	.82	1990	10	.97	1990	.00+	2000	.7	.3	@	.0	.00	.00	.00	.00	.00	.00	.01	.06	.13	.26	.40
Jul	.44	.13	1.36	1984	28	2.48	1984	.00+	2000	2.6	1.0	.2	.1	.00	.00	.00	.04	.10	.19	.32	.49	.75	1.22	1.71
Aug	.45	.24	2.58	1957	21	2.12	1979	.00+	1996	3.0	1.1	.2	.1	.00	.00	.01	.07	.15	.24	.37	.53	.76	1.17	1.59
Sep	.31	.08	1.07	1963	4	2.06	1997	.00+	2000	1.9	.8	.2	.0	.00	.00	.00	.00	.02	.09	.19	.33	.54	.92	1.30
Oct	.24	.06	1.05	1992	24	1.22	1992	.00+	1999	1.8	.7	.1	@	.00	.00	.00	.00	.04	.08	.16	.26	.41	.68	.97
Nov	.31	.16	1.09	1965	22	1.80	1987	.00+	2000	1.8	.7	.2	@	.00	.00	.00	.01	.07	.14	.24	.37	.55	.88	1.21
Dec	.40	.20	.95	1977	28	1.71	1992	.00+	1999	2.9	1.2	.2	.0	.00	.00	.01	.05	.10	.18	.29	.45	.68	1.11	1.56
Ann	4.49	3.98	2.58	Aug 1957	21	4.80	Mar 1992	.00+	Nov 2000	28.6	12.1	2.3	.3	1.77	2.19	2.78	3.26	3.72	4.19	4.70	5.28	6.03	7.16	8.20

+ 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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NWS Call Sign: LAS

Elevation: 2,127 Feet

Lat: 36°05N

Lon: 115°09W

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	.9	.0	#	0	7.4	1979	31	13.4	1974	8	1974	5	#	1979	.3	.2	.2	@	.0	.2	@	@	.0
Feb	.1	.0	#	0	1.4	1990	19	1.4	1990	6	1979	1	#	1979	.2	.0	.0	.0	.0	.1	@	@	.0
Mar	.0	.0	0	0	.1	1976	3	.1	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1990	.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	#	.0	0	0	#	1994	18	#+	1994	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.4	1972	5	.4	1972	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	1.0	.0	N/A	N/A	7.4	Jan 1979	31	13.4	Jan 1974	8	Jan 1974	5	#+	May 1990	.5	.2	.2	@	.0	.3	.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

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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	4/01	3/24	3/17	3/12	3/07	3/02	2/25	2/19	2/10
32	3/19	3/08	3/01	2/22	2/16	2/10	2/04	1/27	1/17
28	2/20	2/09	2/02	1/26	1/19	1/12	1/04	12/24	0/00
24	2/04	1/23	1/14	1/04	12/21	0/00	0/00	0/00	0/00
20	2/03	1/19	1/02	0/00	0/00	0/00	0/00	0/00	0/00
16	12/31	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
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	11/04	11/08	11/12	11/15	11/18	11/20	11/23	11/27	12/02
32	11/13	11/18	11/22	11/25	11/27	11/30	12/03	12/06	12/11
28	11/21	11/28	12/04	12/08	12/13	12/18	12/23	1/01	0/00
24	12/04	12/15	12/24	1/02	1/18	0/00	0/00	0/00	0/00
20	12/27	1/11	2/01	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	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	285	275	267	261	255	249	242	235	225
32	316	303	295	288	281	275	269	261	250
28	>365	>365	364	341	328	317	307	296	281
24	>365	>365	>365	>365	>365	>365	>365	336	312
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

* 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	574	375	244	83	16	0	0	0	1	57	318	571	2239
60	406	228	146	47	6	0	0	0	0	24	188	405	1450
57	320	158	99	26	2	0	0	0	0	11	128	319	1063
55	264	118	72	17	1	0	0	0	0	6	94	263	835
50	146	45	26	4	0	0	0	0	0	1	36	145	403
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	448	551	794	1000	1324	1590	1817	1759	1460	1116	670	447	12976
55	4	33	131	318	611	900	1104	1046	770	409	77	4	5407
57	2	19	95	265	549	840	1042	984	710	351	52	1	4910
60	0	7	55	193	459	750	949	891	620	268	25	0	4217
65	0	1	20	98	323	602	796	739	474	157	4	0	3214
70	0	0	2	37	191	453	639	581	327	65	0	0	2295

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	223	360	555	766	1085	1360	1578	1519	1228	876	439	220	223	583	1138	1904	2989	4349	5927	7446	8674	9550	9989	10209
45	103	225	401	616	930	1210	1423	1364	1078	721	294	101	103	328	729	1345	2275	3485	4908	6272	7350	8071	8365	8466
50	31	110	258	467	775	1060	1268	1209	928	566	171	27	31	141	399	866	1641	2701	3969	5178	6106	6672	6843	6870
55	1	38	140	327	620	910	1113	1054	778	418	80	1	1	39	179	506	1126	2036	3149	4203	4981	5399	5479	5480
60	0	8	58	200	470	760	958	899	628	275	25	0	0	8	66	266	736	1496	2454	3353	3981	4256	4281	4281
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	130	205	327	478	703	860	985	959	801	555	254	132	130	335	662	1140	1843	2703	3688	4647	5448	6003	6257	6389

(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