

Climatography of the United States

No. 20

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

Station: WINNEMUCCA MUNICIPAL AP, NV

1971-2000

COOP ID: 269171

Climate Division: NV 1

NWS Call Sign: WMC

Elevation: 4,297 Feet Lat: 40° 54N

Lon: 117° 48W

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	41.6	18.5	30.1	68	1971	18	38.7	1986	-36	1937	21	19.3	1985	1088	0	.0	.0	7.0	5.6	27.9	2.7
Feb	48.5	23.6	36.1	74+	1981	19	41.9	1995	-28	1985	4	27.3	1989	820	0	.0	.0	13.4	1.7	24.1	.8
Mar	55.1	27.0	41.1	81	1972	9	46.5	1993	-3+	1954	12	37.0+	1977	742	0	.0	.0	22.3	.1	23.9	.1
Apr	62.6	30.7	46.7	90	1981	30	52.7	1990	6+	1970	1	40.3	1975	554	0	.0	@	26.7	.0	18.2	.0
May	72.0	38.4	55.2	97	2001	24	62.6	1992	12	1953	10	49.0	1998	315	11	.0	1.4	30.4	.0	7.4	.0
Jun	82.7	45.8	64.3	106	1988	24	70.2	1977	23+	1954	6	59.1	1998	105	81	.8	9.8	29.9	.0	1.1	.0
Jul	92.2	51.8	72.0	108	1931	20	76.3	1994	29+	1955	5	65.3	1993	12	232	4.6	22.3	31.0	.0	.1	.0
Aug	90.6	49.2	69.9	108	1983	6	74.7	1971	28+	1960	23	65.5	1976	23	174	2.8	20.1	31.0	.0	.1	.0
Sep	80.4	40.2	60.3	103	1950	2	65.4	1990	12	1958	24	54.4	1986	173	28	.1	6.2	30.0	.0	5.4	.0
Oct	67.3	30.2	48.8	91+	1980	6	55.0	1988	5	1996	21	44.2	1984	509	0	.0	.2	28.7	.0	19.6	.0
Nov	51.4	23.3	37.4	77+	1976	5	42.9	1995	-8+	1947	22	28.4	1985	829	0	.0	.0	16.3	.6	25.3	.4
Dec	42.2	17.0	29.6	70	1939	10	38.9	1977	-37	1990	22	16.6	1990	1101	0	.0	.0	7.3	4.4	28.3	2.7
Ann	65.6	33.0	49.3	108+	Aug 1983	6	76.3	Jul 1994	-37	Dec 1990	22	16.6	Dec 1990	6271	526	8.3	60.0	274.0	12.4	181.4	6.7

+ 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: 1928-2001

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

059-A

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Climate Division: NV 1

NWS Call Sign: WMC

Elevation: 4,297 Feet Lat: 40°54N

Lon: 117°48W

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	.83	.75	.74	1980	13	2.02	1993	.09	1992	8.3	2.6	.2	.0	.11	.18	.29	.41	.53	.67	.83	1.02	1.28	1.71	2.13
Feb	.62	.51	.99	1945	13	1.60	1998	.08	1997	7.5	2.5	@	.0	.12	.18	.27	.35	.43	.52	.63	.75	.91	1.18	1.43
Mar	.86	.90	.66	1946	20	1.61	1995	.08	1997	8.3	3.4	@	.0	.16	.24	.37	.48	.60	.73	.87	1.04	1.28	1.65	2.00
Apr	.85	.74	.77	1957	20	2.92	1978	.08	1992	7.4	2.8	.2	.0	.13	.20	.33	.44	.56	.70	.85	1.03	1.28	1.68	2.07
May	1.06	.93	1.15	1998	10	3.57	1998	.00+	1985	6.9	3.3	.4	@	.00	.07	.23	.40	.57	.77	1.01	1.31	1.72	2.41	3.09
Jun	.69	.53	1.38	1977	9	2.36	1977	.00+	1994	4.3	2.0	.2	.1	.00	.00	.09	.19	.31	.45	.62	.84	1.15	1.67	2.20
Jul	.27	.14	.86+	1982	1	1.74	1984	.00	1989	2.3	.6	.1	.0	.00	.01	.03	.07	.11	.16	.22	.31	.44	.67	.91
Aug	.35	.17	.73	1958	17	1.74	1979	.00+	1998	2.7	.9	.2	.0	.00	.00	.00	.04	.09	.16	.26	.39	.59	.96	1.34
Sep	.53	.33	1.04	1998	9	2.80	1998	.00+	1987	3.6	1.6	.2	@	.00	.00	.09	.17	.26	.37	.50	.66	.88	1.26	1.63
Oct	.66	.56	1.58	1951	24	1.74	1975	.00+	1995	4.7	2.0	.2	.0	.00	.00	.15	.27	.38	.51	.65	.83	1.06	1.46	1.84
Nov	.80	.76	1.56	1950	18	2.51	1985	.06	1974	7.6	2.6	.2	.0	.09	.15	.26	.37	.49	.62	.78	.97	1.24	1.67	2.09
Dec	.81	.52	.95	1969	23	3.66	1983	.03	1976	7.6	2.9	.2	.0	.05	.10	.20	.31	.43	.58	.76	.98	1.30	1.83	2.37
Ann	8.33	7.90	1.58	Oct 1951	24	3.66	Dec 1983	.00+	Aug 1998	71.2	27.2	2.1	.1	4.72	5.36	6.20	6.87	7.48	8.07	8.70	9.41	10.29	11.59	12.74

+ 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: 1928-2001

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Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Climate Division: NV 1

NWS Call Sign: WMC

Elevation: 4,297 Feet

Lat: 40° 54N

Lon: 117° 48W

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	4.7	3.7	1	0	7.6	1993	7	19.2	1993	15	1993	18	6	1993	5.2	1.7	.3	.1	.0	9.4	3.6	2.0	.4
Feb	3.5	2.3	#	0	5.5	1989	1	13.9	1979	9+	1985	7	4	1985	3.8	1.3	.2	@	.0	4.2	1.4	.6	.0
Mar	3.8	3.2	#	0	6.4	1982	18	15.9	1982	7	1982	19	#	1995	3.3	1.3	.2	.1	.0	1.2	.3	.1	.0
Apr	1.9	1.1	#	0	6.5	1971	24	8.8	1971	4	1971	24	#	1983	2.5	.6	@	@	.0	.2	@	.0	.0
May	.6	#	#	0	3.2	1971	20	4.3+	1975	#+	1988	6	#	1995	.6	.3	@	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.2	1995	6	.2	1995	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	#	0	.0	0	0	.0	0	#	1991	28	#	1991	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	#	0	.0	0	0	.0	0	#	1990	10	#	1990	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.1	.0	0	0	1.0	1986	26	1.0	1986	#+	1991	24	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.6	.0	#	0	4.4	1984	16	7.4	1984	3	1984	17	#	1991	.6	.2	@	.0	.0	.2	@	.0	.0
Nov	2.6	1.7	#	0	5.7	1985	10	19.6	1985	6+	1985	24	2	1985	3.0	1.0	.2	.1	.0	1.8	.2	.1	.0
Dec	4.9	4.0	1	0	6.3	1994	12	17.5	1971	7+	1983	25	3	1972	4.7	1.6	.4	.1	.0	5.9	2.8	.8	.0
Ann	22.7	16.0	N/A	N/A	7.6	Jan 1993	7	19.6	Nov 1985	15	Jan 1993	18	6	Jan 1993	23.8	8.0	1.3	.4	.0	22.9	8.3	3.6	.4

+ 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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Climate Division: NV 1

NWS Call Sign: WMC

Elevation: 4,297 Feet

Lat: 40° 54N

Lon: 117° 48W

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	7/12	7/06	7/02	6/28	6/24	6/21	6/17	6/12	6/06
32	6/29	6/22	6/17	6/13	6/09	6/05	5/31	5/26	5/19
28	6/12	6/04	5/29	5/24	5/19	5/15	5/10	5/04	4/25
24	5/18	5/11	5/06	5/02	4/28	4/24	4/20	4/15	4/09
20	5/16	5/07	5/01	4/26	4/21	4/16	4/10	4/04	3/27
16	5/02	4/21	4/13	4/07	3/31	3/25	3/18	3/11	2/28
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	8/13	8/19	8/23	8/27	8/31	9/03	9/07	9/12	9/18
32	8/29	9/04	9/07	9/11	9/14	9/17	9/20	9/24	9/29
28	9/05	9/11	9/16	9/19	9/23	9/26	9/30	10/04	10/10
24	9/20	9/25	9/29	10/02	10/05	10/08	10/11	10/15	10/20
20	9/26	10/02	10/06	10/09	10/12	10/16	10/19	10/23	10/29
16	10/09	10/15	10/20	10/24	10/28	11/01	11/05	11/09	11/16
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	96	86	79	73	67	61	55	48	38
32	124	114	107	102	96	91	85	78	69
28	158	147	139	132	126	119	112	104	93
24	186	177	170	164	159	154	148	141	132
20	205	194	187	180	174	168	161	153	143
16	248	235	225	217	210	202	194	185	172

* 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

Complete documentation available from:

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COOP ID: 269171

Climate Division: NV 1 NWS Call Sign: WMC Elevation: 4,297 Feet Lat: 40° 54N Lon: 117° 48W

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	1088	820	742	554	315	105	12	23	173	509	829	1101	6271
60	928	670	588	405	199	50	2	3	90	354	680	943	4912
57	835	586	495	323	141	27	0	1	53	270	590	850	4171
55	773	530	434	271	108	16	0	0	35	219	530	788	3704
50	628	397	290	160	47	4	0	0	9	114	390	640	2679
32	195	60	12	3	0	0	0	0	0	1	55	197	523

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	89	167	291	441	720	969	1241	1174	844	515	198	80	6729
55	0	0	1	14	105	294	528	462	190	26	1	0	1621
57	0	0	0	7	76	243	467	401	146	15	0	0	1355
60	0	0	0	3	43	173	376	311	90	5	0	0	1001
65	0	0	0	0	11	81	232	174	28	0	0	0	526
70	0	0	0	0	1	26	107	72	4	0	0	0	210

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	17	51	110	232	483	738	1001	934	610	294	66	16	17	68	178	410	893	1631	2632	3566	4176	4470	4536	4552
45	2	11	43	128	337	588	846	779	465	170	25	4	2	13	56	184	521	1109	1955	2734	3199	3369	3394	3398
50	0	1	4	52	209	441	691	624	322	81	3	0	0	1	5	57	266	707	1398	2022	2344	2425	2428	2428
55	0	0	0	16	111	303	536	469	196	25	0	0	0	0	0	16	127	430	966	1435	1631	1656	1656	1656
60	0	0	0	1	47	180	386	318	95	5	0	0	0	0	0	1	48	228	614	932	1027	1032	1032	1032
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	17	56	116	208	353	481	606	578	448	287	88	17	17	73	189	397	750	1231	1837	2415	2863	3150	3238	3255

(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.

- 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/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