

Climatology of the United States

No. 20

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

Station: NEVADA WATER PLANT, MO

1971-2000

COOP ID: 235987

Climate Division: MO 3

NWS Call Sign:

Elevation: 820 Feet

Lat: 37° 50N

Lon: 94° 22W

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	39.7	19.0	29.4	77	1950	24	41.1	1989	-20	1979	8	15.3	1979	1105	0	.0	.0	9.0	7.5	27.1	2.0
Feb	46.4	25.0	35.7	82+	1972	29	45.8	1976	-21+	1979	9	22.8	1978	820	0	.0	.0	12.8	4.5	20.8	1.2
Mar	57.1	35.4	46.3	90	1929	24	50.9	1991	-9	1943	7	39.9	1996	580	0	.0	.0	23.2	.6	13.1	.1
Apr	67.1	44.2	55.7	95	1972	12	62.9	1981	15+	1936	3	48.5	1983	294	12	.0	.3	28.5	.0	3.7	.0
May	75.9	54.2	65.1	98+	1934	31	70.9	1987	27	1963	1	60.6	1976	106	107	.0	.7	31.0	.0	.2	.0
Jun	84.7	63.7	74.2	106+	1952	29	78.9	1991	42+	1989	16	69.8	1992	8	284	.2	8.6	30.0	.0	.0	.0
Jul	90.4	68.4	79.4	117	1936	18	87.3	1980	44	1972	5	74.9	1971	0	446	2.5	19.9	31.0	.0	.0	.0
Aug	89.2	66.4	77.8	114+	1936	16	83.7	1980	43+	1974	4	70.6	1992	5	402	2.4	17.1	31.0	.0	.0	.0
Sep	80.7	58.1	69.4	109	1936	6	75.8	1980	25	1989	24	61.0	1974	55	188	.5	6.1	30.0	.0	.4	.0
Oct	70.6	46.6	58.6	96+	1963	7	63.4	1971	18+	1952	29	52.5	1976	224	25	.0	.3	30.3	.0	4.3	.0
Nov	55.2	34.7	45.0	85	1937	1	55.0	1999	0	1932	16	36.8	1976	602	0	.0	.0	20.9	.6	13.8	.0
Dec	43.8	24.6	34.2	77	1966	7	40.2	1991	-25	1989	23	18.1	1983	954	0	.0	.0	11.5	4.6	24.2	.9
Ann	66.7	45.0	55.9	117	Jul 1936	18	87.3	Jul 1980	-25	Dec 1989	23	15.3	Jan 1979	4753	1464	5.6	53.0	289.2	17.8	107.6	4.2

+ 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: 1918-2001

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

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NWS Call Sign:

Elevation: 820 Feet Lat: 37°50N

Lon: 94°22W

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	1.67	1.71	2.95	1922	4	4.06	1973	.02	1986	6.8	4.1	1.0	.4	.20	.33	.56	.80	1.05	1.32	1.64	2.04	2.58	3.48	4.34
Feb	1.99	1.86	2.62	1959	10	6.09	1985	.27	1996	6.1	3.9	1.2	.5	.42	.60	.89	1.16	1.42	1.71	2.03	2.42	2.93	3.75	4.53
Mar	3.66	3.18	3.45	1984	19	11.56	1973	.93	1991	8.8	6.4	2.4	1.1	.91	1.25	1.78	2.26	2.73	3.22	3.77	4.43	5.29	6.65	7.92
Apr	4.31	3.25	10.65	1994	11	22.98	1994	.19	1989	9.3	6.0	2.7	1.3	.54	.88	1.49	2.09	2.73	3.43	4.25	5.27	6.64	8.90	11.08
May	5.27	4.87	4.58	1978	23	11.76	1995	1.57	1984	10.8	8.2	3.5	1.5	1.70	2.20	2.94	3.57	4.18	4.80	5.49	6.30	7.34	8.95	10.44
Jun	5.63	5.16	5.42	1961	2	13.03	1981	.55	1991	9.6	7.5	3.5	1.8	1.44	1.97	2.79	3.51	4.23	4.98	5.81	6.81	8.10	10.15	12.07
Jul	3.96	3.56	5.57	1992	5	13.47	1992	.30	1975	7.1	5.3	2.5	1.1	.40	.69	1.23	1.78	2.38	3.05	3.84	4.83	6.19	8.44	10.63
Aug	3.97	3.37	5.26	1927	14	10.94	1982	.07	2000	6.6	5.2	2.5	1.2	.38	.66	1.20	1.75	2.35	3.03	3.84	4.85	6.23	8.53	10.79
Sep	4.22	3.28	5.28	1998	14	12.94	1993	1.22	1990	7.7	6.3	2.8	1.3	.84	1.22	1.84	2.41	2.98	3.60	4.30	5.14	6.24	8.02	9.71
Oct	4.18	3.38	5.82	1986	3	17.01	1986	.68	1999	7.8	5.4	2.5	1.2	.65	1.00	1.61	2.19	2.78	3.44	4.19	5.10	6.33	8.33	10.24
Nov	3.58	3.18	4.56	1946	1	9.15	1992	.01	1989	7.7	5.6	2.4	1.1	.32	.57	1.05	1.55	2.09	2.71	3.44	4.36	5.63	7.74	9.81
Dec	2.34	1.97	3.75	1982	2	6.71	1982	.26	1976	6.8	4.3	1.6	.5	.34	.53	.87	1.19	1.53	1.90	2.33	2.86	3.57	4.72	5.83
Ann	44.78	45.05	10.65	Apr 1994	11	22.98	Apr 1994	.01	Nov 1989	95.1	68.2	28.6	13.0	30.24	33.00	36.57	39.30	41.74	44.11	46.56	49.29	52.61	57.46	61.68

+ 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: 1918-2001

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

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NWS Call Sign:

Elevation: 820 Feet

Lat: 37°50N

Lon: 94°22W

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	4.2	3.0	1	#	9.0	1995	19	21.0	1979	10	1979	31	5	1987	3.0	1.9	.6	.1	.0	6.2	3.3	1.2	.1
Feb	3.3	1.3	1	#	13.0	1980	8	15.0	1980	13	1980	8	6	1980	1.6	1.3	.4	.1	@	2.9	1.4	.5	.0
Mar	1.7	1.0	#	0	9.0	1975	10	9.0	1975	9	1975	10	1	1975	.9	.8	.2	.1	.0	.7	.3	.1	.0
Apr	.1	.0	#	0	1.0	1973	9	1.0+	1980	#	1994	6	#	1994	.1	.1	.0	.0	.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	#	1993	30	#+	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.7	.0	#	0	6.5	1975	26	6.5	1975	7	1975	27	1	1975	.2	.2	.2	.1	.0	.4	.3	.1	.0
Dec	2.7	1.0	#	#	9.0	1987	15	11.0+	1987	10+	2000	15	3	2000	1.7	1.1	.3	.1	.0	2.6	1.1	.4	.1
Ann	12.7	6.3	N/A	N/A	13.0	Feb 1980	8	21.0	Jan 1979	13	Feb 1980	8	6	Feb 1980	7.5	5.4	1.7	.5	@	12.8	6.4	2.3	.2

+ 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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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	5/13	5/07	5/03	4/30	4/26	4/23	4/19	4/15	4/09
32	5/02	4/27	4/23	4/20	4/17	4/14	4/11	4/07	4/02
28	4/23	4/17	4/12	4/09	4/05	4/02	3/29	3/25	3/19
24	4/14	4/06	3/31	3/25	3/20	3/16	3/10	3/04	2/24
20	4/03	3/26	3/20	3/15	3/10	3/06	3/01	2/23	2/15
16	3/18	3/10	3/05	3/01	2/24	2/20	2/16	2/10	2/03
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	9/19	9/25	9/28	10/02	10/05	10/08	10/11	10/15	10/21
32	9/25	10/01	10/06	10/10	10/13	10/17	10/21	10/25	10/31
28	10/02	10/11	10/16	10/22	10/26	10/31	11/05	11/11	11/19
24	10/21	10/28	11/03	11/07	11/11	11/15	11/20	11/25	12/02
20	10/30	11/06	11/11	11/15	11/19	11/23	11/28	12/03	12/10
16	11/13	11/20	11/25	11/29	12/03	12/07	12/11	12/16	12/23
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	189	179	172	166	161	155	150	143	133
32	205	196	189	184	178	173	167	161	152
28	234	224	216	209	203	197	191	183	172
24	272	259	250	242	235	228	220	211	198
20	289	277	268	260	253	246	239	230	218
16	311	301	293	287	281	275	269	261	251

* 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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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	1105	820	580	294	106	8	0	5	55	224	602	954	4753
60	950	686	431	174	45	1	0	1	19	117	460	800	3684
57	859	608	345	117	23	0	0	0	9	71	378	712	3122
55	800	556	291	86	14	0	0	0	5	48	326	656	2782
50	657	432	177	31	3	0	0	0	0	14	215	513	2042
32	237	122	9	0	0	0	0	0	0	0	19	144	531

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	155	226	452	709	1024	1266	1469	1420	1122	824	407	213	9287
55	5	16	20	104	325	576	756	707	437	159	24	11	3140
57	2	12	12	76	273	516	694	645	381	119	16	6	2752
60	0	6	6	43	201	427	601	552	301	72	8	0	2217
65	0	0	0	12	107	284	446	402	188	25	0	0	1464
70	0	0	0	2	45	161	297	263	103	5	0	0	876

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	38	108	278	506	798	1036	1217	1173	885	583	234	65	38	146	424	930	1728	2764	3981	5154	6039	6622	6856	6921
45	14	58	176	366	643	886	1062	1018	735	431	143	32	14	72	248	614	1257	2143	3205	4223	4958	5389	5532	5564
50	2	24	100	241	489	736	907	863	586	296	77	8	2	26	126	367	856	1592	2499	3362	3948	4244	4321	4329
55	0	10	47	147	338	586	752	708	444	183	38	4	0	10	57	204	542	1128	1880	2588	3032	3215	3253	3257
60	0	1	17	74	204	436	597	553	312	95	10	0	0	1	18	92	296	732	1329	1882	2194	2289	2299	2299
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	34	82	189	321	516	700	819	781	585	380	153	48	34	116	305	626	1142	1842	2661	3442	4027	4407	4560	4608

(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.

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| <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 |
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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