U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: KINGS RIVER VALLEY, NV **COOP ID: 264236**

Climate Division: NV 1 **NWS Call Sign:** **Elevation: 4,240 Feet** **Lat: 41˚45N** **Lon: 118˚14W**

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	40.5	16.7	28.6	68	1974	15	35.4	1986	-29+	1957	29	18.2	1993	1129	0	.0	.0	3.9	6.2	29.4	3.2
Feb	47.2	23.0	35.1	73	1986	28	43.3	1995	-24	1985	4	24.8	1989	838	0	.0	.0	9.6	1.7	25.3	.8
Mar	55.0	27.5	41.3	80	1986	29	46.1	1978	-4	1971	2	36.1	1977	736	0	.0	.0	21.4	.2	24.0	.1
Apr	63.6	31.5	47.6	89+	1981	30	55.8	1990	8	1963	15	40.1	1975	527	2	.0	.0	27.0	.0	17.2	.0
May	72.5	38.8	55.7	98	2001	25	64.9	1992	15+	1959	4	48.8	1977	307	17	.0	1.2	30.6	.0	6.7	.0
Jun	82.9	45.1	64.0	103	1988	24	69.5	1985	25+	1962	4	57.8	1980	122	92	.3	7.1	30.0	.0	1.2	.0
Jul	92.3	51.7	72.0	109	1998	17	76.8	1988	32+	1983	10	64.7	1993	19	235	2.3	19.9	31.0	.0	@	.0
Aug	91.5	49.5	70.5	106+	1961	2	73.6	1998	24	1960	23	65.0	1976	17	187	2.0	17.2	31.0	.0	.2	.0
Sep	81.8	41.3	61.6	101	1998	3	67.8	1990	16	1970	25	54.7	1972	162	59	.1	5.1	30.0	.0	3.4	.0
Oct	69.0	32.0	50.5	93+	1987	2	59.2	1988	8	1970	27	44.7	1971	453	4	.0	.2	29.1	.0	16.1	.0
Nov	51.2	23.9	37.6	76+	1962	1	43.4	1995	-7+	1977	20	29.3	1994	824	0	.0	.0	15.6	.6	25.4	.4
Dec	41.2	16.8	29.0	69	1962	12	35.7	1996	-27	1990	22	18.2	1990	1116	0	.0	.0	4.5	4.6	29.1	1.9
Ann	65.7	33.2	49.5	109	Jul 1998	17	76.8	Jul 1988	-29+	Jan 1957	29	18.2+	Jan 1993	6250	596	4.7	50.7	263.7	13.3	178.0	6.4

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1956-2001

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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	1.08	.96	1.30	1963	31	3.00	2000	.03	1992
Feb	.87	.73	.90	1980	1	2.43	2000	.00	1995
Mar	.82	.76	.71	1986	8	1.84	1978	.08	1977
Apr	.78	.72	1.50	1983	30	2.30	1983	.05	1977
May	.88	.81	1.14	1971	31	2.63	1998	.00+	1992
Jun	.70	.69	1.27	1971	26	2.59	1997	.00+	1990
Jul	.25	.13	.54	1974	9	1.09	1974	.00+	1999
Aug	.27	.08	1.65	1961	27	2.64	1976	.00+	2000
Sep	.47	.40	.86	1961	17	1.37	1998	.00+	1992
Oct	.55	.45	1.14	2000	26	2.13	2000	.00+	1995
Nov	.87	.75	1.25	1960	11	2.28	1988	.09	1993
Dec	1.10	.66	1.30	1982	15	4.47	1995	.00	1976
Ann	8.64	8.31	1.65	Aug 1961	27	4.47	Dec 1995	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.4	3.2	.3	@
Feb	6.3	2.9	.2	.0
Mar	6.5	2.5	.2	.0
Apr	5.3	2.1	.3	@
May	5.9	2.6	.2	@
Jun	3.9	1.8	.3	@
Jul	2.1	.8	@	.0
Aug	2.0	.8	.2	.0
Sep	3.6	1.2	.1	.0
Oct	3.8	2.0	.2	@
Nov	6.4	2.8	.3	.0
Dec	7.0	3.5	.5	.1
Ann	59.2	26.2	2.8	.1

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.11	.19	.33	.48	.65	.83	1.04	1.31	1.68	2.29	2.89
Feb	.02	.07	.18	.30	.44	.61	.81	1.06	1.42	2.03	2.63
Mar	.12	.19	.31	.42	.54	.67	.81	1.00	1.24	1.64	2.02
Apr	.08	.14	.25	.36	.48	.61	.76	.95	1.21	1.64	2.07
May	.00	.06	.19	.32	.47	.64	.84	1.08	1.43	2.01	2.58
Jun	.00	.00	.16	.28	.40	.54	.69	.89	1.14	1.57	1.99
Jul	.00	.00	.01	.04	.08	.13	.20	.29	.43	.66	.91
Aug	.00	.00	.00	.01	.04	.09	.16	.27	.45	.78	1.14
Sep	.00	.00	.08	.15	.24	.33	.44	.59	.78	1.11	1.44
Oct	.00	.00	.10	.19	.28	.39	.52	.68	.91	1.28	1.65
Nov	.13	.20	.33	.45	.57	.71	.87	1.06	1.32	1.74	2.15
Dec	.02	.08	.21	.36	.53	.74	1.00	1.33	1.79	2.59	3.39
Ann	4.98	5.63	6.50	7.17	7.79	8.39	9.03	9.75	10.63	11.94	13.10

\+ 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: 1956-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	6.0	5.3	3	1	7.0	1993	7	15.1	2000	17	1993	18	11	1993	3.5	2.2	.8	.3	.0	-9.9	-9.9	-9.9	-9.9
Feb	3.5	2.5	1	#	7.0	1980	1	17.0	1994	9	1993	8	7	1993	2.0	1.3	.5	.1	.0	2.5	2.2	1.9	.0
Mar	1.0	.0	#	0	5.0	1979	3	9.5	1979	5	1993	2	5	1979	.7	.4	.1	@	.0	.6	.2	.1	.0
Apr	.2	.0	#	0	2.0	1982	1	2.0	1982	2+	1989	25	#+	1989	.2	.2	.0	.0	.0	.1	.0	.0	.0
May	#	.0	#	0	#	1986	6	#+	1986	#	2000	10	#	2000	.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	.3	.0	#	0	4.0	1971	16	7.0	1971	2	1991	29	#	1991	.1	.1	.1	.0	.0	.0	.0	.0	.0
Nov	2.0	.6	#	0	5.5	1977	21	7.5	1983	6	1985	24	4	1988	1.1	.8	.4	.1	.0	.3	.1	.1	.0
Dec	6.2	7.8	1	#	9.0	1994	4	15.5	1988	11	1983	25	7	1983	2.7	1.7	.5	.3	.0	.9	.3	.3	.0
Ann	19.2	16.2	N/A	N/A	9.0	Dec 1994	4	17.0	Feb 1994	17	Jan 1993	18	11	Jan 1993	10.3	6.7	2.4	.8	.0	-9.9	-9.9	-9.9	-9.9

+ 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	7/05	6/29	6/25	6/21	6/18	6/14	6/10	6/06	5/31
32	6/24	6/15	6/10	6/05	5/31	5/26	5/21	5/15	5/07
28	6/01	5/25	5/20	5/16	5/13	5/09	5/05	4/30	4/24
24	5/19	5/12	5/07	5/03	4/29	4/25	4/21	4/17	4/10
20	5/07	4/28	4/21	4/16	4/11	4/06	3/31	3/25	3/16
16	4/28	4/15	4/06	3/29	3/22	3/14	3/06	2/25	2/12

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	8/18	8/24	8/28	9/01	9/05	9/08	9/12	9/16	9/22
32	8/28	9/04	9/09	9/13	9/16	9/20	9/24	9/29	10/06
28	9/17	9/22	9/25	9/28	10/01	10/04	10/07	10/10	10/15
24	9/23	9/28	10/02	10/05	10/07	10/10	10/13	10/17	10/22
20	10/04	10/10	10/15	10/19	10/23	10/27	10/31	11/04	11/11
16	10/18	10/24	10/28	11/01	11/05	11/09	11/12	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	104	95	89	83	78	73	68	61	52
32	139	129	121	114	108	102	95	87	76
28	166	157	151	146	141	136	130	124	115
24	187	178	171	166	160	155	150	143	134
20	226	215	207	201	194	188	181	173	162
16	270	256	245	236	227	219	210	199	185

***** 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	1129	838	736	527	307	122	19	17	162	453	824	1116	6250
60	974	698	581	386	187	55	4	3	82	311	674	961	4916
57	881	614	488	307	131	30	1	1	49	235	585	868	4190
55	819	558	428	259	99	19	0	0	33	190	526	806	3737
50	671	427	286	158	41	5	0	0	10	99	385	651	2733
32	223	82	14	5	0	0	0	0	0	1	51	191	567

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	117	168	301	470	733	960	1239	1193	886	574	217	97	6955
55	0	0	2	34	118	289	526	480	229	51	2	0	1731
57	0	0	1	23	88	240	465	418	186	34	0	0	1455
60	0	0	0	12	51	176	375	327	129	16	0	0	1086
65	0	0	0	2	17	92	235	187	59	4	0	0	596
70	0	0	0	0	3	37	124	81	19	0	0	0	264

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	4	29	99	235	477	707	971	924	631	327	58	8	4	33	132	367	844	1551	2522	3446	4077	4404	4462	4470
45	0	4	34	127	328	559	816	769	483	202	14	0	0	4	38	165	493	1052	1868	2637	3120	3322	3336	3336
50	0	0	4	54	202	410	661	614	337	103	2	0	0	0	4	58	260	670	1331	1945	2282	2385	2387	2387
55	0	0	0	15	102	271	506	460	209	37	0	0	0	0	0	15	117	388	894	1354	1563	1600	1600	1600
60	0	0	0	0	40	154	354	310	106	9	0	0	0	0	0	0	40	194	548	858	964	973	973	973
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	4	36	102	205	344	465	596	576	445	285	69	7	4	40	142	347	691	1156	1752	2328	2773	3058	3127	3134

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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