

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: RYE PATCH DAM, NV

1971-2000

COOP ID: 267192

Climate Division: NV 1

NWS Call Sign:

Elevation: 4,135 Feet Lat: 40° 28N

Lon: 118° 18W

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	43.4	17.9	30.7	68	1961	16	38.4	1986	-28	1949	25	21.8	1993	1065	0	.0	.0	7.3	4.3	29.3	1.8
Feb	51.3	23.1	37.2	75	1986	28	44.5	1995	-21	1989	8	28.1	1989	780	0	.0	.0	15.8	1.0	25.1	.5
Mar	58.6	27.1	42.9	81+	1960	26	48.4	1978	-10	1971	1	38.7	1985	687	0	.0	.0	25.2	.1	23.7	.1
Apr	66.2	31.4	48.8	92+	1949	17	55.4	1992	8	1972	13	41.4	1975	489	3	.0	@	28.2	.0	17.4	.0
May	75.2	39.1	57.2	98	1983	28	66.1	1992	12	1964	6	49.9	1998	275	32	.0	2.2	30.9	.0	6.2	.0
Jun	85.6	46.2	65.9	106	1961	20	71.7	1977	24	2001	4	60.9	1998	84	110	.9	11.2	29.9	.0	.8	.0
Jul	94.6	51.7	73.2	108	1960	19	77.4	1994	30	1983	10	67.2	1983	8	261	5.7	24.5	31.0	.0	.1	.0
Aug	93.1	49.6	71.4	108	1981	8	76.5	1971	30+	1960	23	66.1	1976	14	209	3.9	22.8	31.0	.0	.1	.0
Sep	83.7	42.1	62.9	103+	1950	1	66.0	1975	17+	1958	24	57.0	1986	119	55	.1	8.7	30.0	.0	3.4	.0
Oct	70.9	31.9	51.4	94+	1979	5	56.6	1988	5	1970	28	46.6	1998	425	2	.0	.7	29.8	.0	17.2	.0
Nov	54.4	23.7	39.1	79	1980	4	45.0	1995	-4+	1958	17	33.1	2000	778	0	.0	.0	19.3	.1	25.4	.1
Dec	44.8	17.2	31.0	66+	1958	5	38.8	1977	-23	1972	11	20.0	1990	1055	0	.0	.0	9.2	2.8	28.7	1.6
Ann	68.5	33.4	51.0	108+	Aug 1981	8	77.4	Jul 1994	-28	Jan 1949	25	20.0	Dec 1990	5779	672	10.6	70.1	287.6	8.3	177.4	4.1

+ 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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NWS Call Sign:

Elevation: 4,135 Feet Lat: 40°28N

Lon: 118°18W

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	.84	.64	.91	1997	23	2.35	1997	.09+	1994	7.0	2.9	.2	.0	.10	.17	.29	.40	.53	.67	.83	1.02	1.29	1.73	2.16
Feb	.73	.65	.84	1998	3	2.61	1998	.18	1981	6.5	2.7	.1	.0	.14	.21	.32	.41	.51	.62	.74	.89	1.08	1.39	1.69
Mar	.95	.79	.87	1952	16	2.21	1978	.00	1972	7.7	3.4	.2	.0	.07	.17	.32	.46	.60	.76	.95	1.18	1.48	1.98	2.47
Apr	1.01	.82	1.20	1990	17	3.37	1990	.07+	1992	6.3	2.9	.5	.1	.08	.14	.27	.41	.57	.74	.96	1.23	1.61	2.24	2.87
May	1.05	.72	1.12	1971	8	3.88	1998	.01	1974	5.7	2.8	.6	@	.02	.05	.13	.25	.41	.61	.86	1.22	1.73	2.66	3.61
Jun	.84	.75	1.40	1965	26	2.70	1998	.00+	2000	4.0	2.3	.6	@	.00	.00	.12	.27	.42	.60	.80	1.06	1.41	1.99	2.57
Jul	.24	.08	2.00	1967	16	1.13	1979	.00+	2000	2.1	.7	.1	.0	.00	.00	.00	.02	.06	.11	.18	.27	.40	.65	.90
Aug	.36	.13	.94	1976	22	2.43	1976	.00+	1999	2.5	.9	.2	.0	.00	.00	.00	.01	.05	.12	.22	.38	.61	1.05	1.50
Sep	.56	.35	1.38	1976	11	2.63	1998	.00+	1999	3.2	1.6	.3	@	.00	.00	.00	.12	.23	.36	.51	.70	.96	1.41	1.85
Oct	.75	.61	1.04	1951	24	2.12	1984	.00+	1995	4.0	2.3	.3	@	.00	.00	.08	.23	.38	.54	.73	.96	1.28	1.79	2.31
Nov	.72	.62	.93	1982	30	2.14	1985	.01	1975	5.3	2.3	.2	.0	.06	.10	.20	.30	.41	.53	.68	.87	1.14	1.58	2.01
Dec	.78	.66	1.17	1969	24	3.17	1983	.00+	1989	6.0	2.6	.1	@	.00	.05	.16	.28	.41	.56	.74	.96	1.28	1.80	2.32
Ann	8.83	8.48	2.00	Jul 1967	16	3.88	May 1998	.00+	Jul 2000	60.3	27.4	3.4	.1	4.49	5.23	6.23	7.02	7.76	8.49	9.26	10.14	11.24	12.89	14.36

+ 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

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Station: RYE PATCH DAM, NV

COOP ID: 267192

Climate Division: NV 1

NWS Call Sign:

Elevation: 4,135 Feet

Lat: 40° 28N

Lon: 118° 18W

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	2.7	1.3	#	0	4.5	1983	20	7.0	1983	3	1987	6	3	1984	1.8	1.3	.4	.0	.0	1.1	.4	.0	.0
Feb	.7	.0	#	0	2.5	1975	14	5.0	1975	12	1987	24	1	1987	.3	.2	.0	.0	.0	.2	.1	.0	.0
Mar	.1	.0	#	0	.5	1985	4	.5	1985	6	1998	28	1	1982	.3	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.2	.0	#	0	2.5	2000	18	2.5	2000	#	1999	1	#	1999	.1	.1	.0	.0	.0	.0	.0	.0	.0
May	#	.0	0	0	#	1977	7	#+	1977	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	#	1971	30	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	6	1984	17	6	1984	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.1	.0	#	0	5.0	1982	30	5.0+	1985	5	1982	30	#+	1998	.5	.5	.1	.1	.0	.2	.1	.1	.0
Dec	1.8	1.5	#	0	6.0	1997	20	6.0	1997	4	1978	18	1	1984	1.0	.7	.1	.1	.0	1.4	.3	.0	.0
Ann	6.6	2.8	N/A	N/A	6.0	Dec 1997	20	7.0	Jan 1983	12	Feb 1987	24	6	Oct 1984	4.0	2.8	.6	.2	.0	2.9	.9	.1	.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

Complete documentation available from:

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Climate Division: NV 1

NWS Call Sign:

Elevation: 4,135 Feet

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Lon: 118°18W

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	7/13	7/05	6/29	6/24	6/20	6/15	6/10	6/04	5/27
32	6/23	6/16	6/11	6/06	6/02	5/29	5/25	5/20	5/13
28	5/27	5/21	5/17	5/14	5/11	5/07	5/04	4/30	4/24
24	5/20	5/13	5/07	5/03	4/29	4/24	4/20	4/15	4/07
20	5/04	4/27	4/22	4/18	4/14	4/10	4/06	4/01	3/25
16	4/18	4/09	4/03	3/28	3/23	3/18	3/12	3/06	2/25
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	8/16	8/22	8/26	8/29	9/02	9/05	9/09	9/13	9/18
32	9/02	9/08	9/12	9/16	9/19	9/22	9/26	9/30	10/06
28	9/12	9/17	9/21	9/25	9/28	10/01	10/05	10/09	10/15
24	9/22	9/28	10/02	10/05	10/09	10/12	10/15	10/19	10/25
20	10/03	10/09	10/13	10/17	10/21	10/24	10/28	11/02	11/08
16	10/15	10/21	10/25	10/28	10/31	11/03	11/06	11/10	11/15
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	103	93	85	79	73	67	61	53	43
32	136	127	120	114	108	102	96	89	80
28	162	155	149	144	140	135	130	125	117
24	188	179	173	167	162	157	151	145	136
20	216	206	200	194	189	184	178	171	162
16	251	241	233	227	221	215	209	202	191

* 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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Climate Division: NV 1 NWS Call Sign: Elevation: 4,135 Feet Lat: 40° 28N Lon: 118° 18W

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	1065	780	687	489	275	84	8	14	119	425	778	1055	5779
60	910	640	532	348	168	32	1	1	48	281	628	900	4489
57	817	556	440	271	118	15	0	0	23	206	538	807	3791
55	755	500	380	223	90	9	0	0	13	162	479	745	3356
50	608	368	240	127	38	2	0	0	2	76	338	593	2392
32	178	47	6	0	0	0	0	0	0	0	31	159	421

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	136	192	342	504	780	1016	1276	1219	926	600	244	127	7362
55	0	0	3	37	156	335	563	506	248	49	1	0	1898
57	0	0	1	24	123	282	501	444	199	31	0	0	1605
60	0	0	0	12	80	208	408	352	134	14	0	0	1208
65	0	0	0	3	32	110	261	209	55	2	0	0	672
70	0	0	0	0	10	44	136	98	15	0	0	0	303

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	13	52	136	274	533	771	1022	964	683	359	76	15	13	65	201	475	1008	1779	2801	3765	4448	4807	4883	4898
45	0	13	53	158	382	622	867	809	533	227	27	0	0	13	66	224	606	1228	2095	2904	3437	3664	3691	3691
50	0	0	13	75	246	475	712	654	390	118	4	0	0	0	13	88	334	809	1521	2175	2565	2683	2687	2687
55	0	0	1	21	136	330	558	499	253	48	0	0	0	0	1	22	158	488	1046	1545	1798	1846	1846	1846
60	0	0	0	3	63	203	404	350	136	11	0	0	0	0	0	3	66	269	673	1023	1159	1170	1170	1170
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	19	67	147	248	385	503	611	594	476	325	97	19	19	86	233	481	866	1369	1980	2574	3050	3375	3472	3491

(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