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: SALMON KSRA, ID **COOP ID: 108080**

Climate Division: ID 8 **NWS Call Sign: 27U** **Elevation: 3,931 Feet** **Lat: 45˚11N** **Lon: 113˚54W**

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	28.4	9.3	18.9	57	1974	16	27.9	1990	-34	1979	7	1.0	1979	1429	0	.0	.0	.4	16.5	30.5	6.0
Feb	37.0	15.2	26.1	62+	1995	25	32.6	1995	-26	1989	4	14.8	1989	1090	0	.0	.0	3.2	6.4	27.3	2.6
Mar	49.7	24.7	37.2	76+	1986	29	43.0	1992	-3	1976	3	28.0	1985	861	0	.0	.0	17.6	.4	25.3	.1
Apr	59.9	31.8	45.9	89	1987	27	51.6	1987	14	1975	2	39.8	1975	574	0	.0	.0	26.7	.0	15.4	.0
May	69.1	39.5	54.3	95+	1986	30	59.2	1992	19	1972	1	51.1	1975	335	3	.0	.6	30.7	.0	4.0	.0
Jun	77.9	46.1	62.0	103	1974	15	67.6	1988	28	1979	1	57.4	1998	140	50	.2	4.0	30.0	.0	.6	.0
Jul	87.3	50.9	69.1	105	1973	10	73.4	1985	34	1981	8	60.3	1993	34	161	.9	15.2	31.0	.0	.0	.0
Aug	85.5	48.5	67.0	102+	1992	14	71.4	1981	29	1992	25	61.7	1993	50	113	.2	12.2	31.0	.0	.1	.0
Sep	74.9	40.4	57.7	97	1988	3	62.6	1979	20	1985	30	53.1	1986	238	17	.0	1.8	29.8	.0	3.5	.0
Oct	60.3	30.2	45.3	87+	1997	1	51.0	1988	3	1971	29	41.6	1984	613	0	.0	.0	27.0	.1	16.9	.0
Nov	40.7	21.0	30.9	69	1983	3	37.3	1998	-12	1985	24	21.4	2000	1025	0	.0	.0	6.6	4.3	25.6	.6
Dec	29.2	11.4	20.3	59	1987	6	29.5	1979	-31	1990	22	11.2	1985	1387	0	.0	.0	.8	16.8	30.3	4.0
Ann	58.3	30.8	44.6	105	Jul 1973	10	73.4	Jul 1985	-34	Jan 1979	7	1.0	Jan 1979	7776	344	1.3	33.8	234.8	44.5	179.5	13.3

\+ 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: 1967-2001

(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	.68	.59	.65	2000	11	1.52	1971	.07	1992
Feb	.49	.47	.55	1986	18	1.85	1986	.02	1990
Mar	.54	.51	.38	1972	2	1.41	1974	.12	2000
Apr	.79	.70	1.50	1971	24	2.54	1971	.09	1987
May	1.42	1.34	1.14	1995	6	3.65	1980	.45+	1983
Jun	1.42	1.31	1.02	1991	5	3.19	1995	.18	1985
Jul	1.03	.90	1.42	1983	10	2.50	1977	.00	1999
Aug	.82	.73	.63	1990	26	2.15	1983	.10+	2000
Sep	.77	.60	.94	2001	6	2.48	1986	.00	1979
Oct	.65	.52	.96	1992	4	2.35	2000	.00	1987
Nov	.73	.62	1.02	1970	7	1.96	1991	.04	1982
Dec	.78	.68	1.05	1977	15	2.74	1977	.06	1976
Ann	10.12	9.98	1.50	Apr 1971	24	3.65	May 1980	.00+	Jul 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.2	2.0	@	.0
Feb	7.1	1.8	@	.0
Mar	7.5	2.0	.0	.0
Apr	8.3	2.5	.2	@
May	11.0	4.9	.3	@
Jun	10.7	4.5	.5	.1
Jul	7.4	3.3	.3	@
Aug	7.5	2.8	.1	.0
Sep	6.0	2.4	.2	.0
Oct	5.5	2.1	.2	.0
Nov	8.2	2.4	.1	.0
Dec	9.4	2.8	.1	@
Ann	97.8	33.5	2.0	.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	.14	.20	.30	.39	.48	.58	.69	.83	1.01	1.29	1.56
Feb	.06	.10	.17	.24	.31	.39	.48	.60	.75	1.00	1.25
Mar	.14	.19	.27	.34	.41	.48	.56	.65	.78	.97	1.16
Apr	.08	.14	.25	.36	.48	.61	.77	.97	1.23	1.67	2.10
May	.42	.55	.75	.93	1.10	1.28	1.48	1.71	2.01	2.48	2.92
Jun	.27	.40	.61	.80	1.00	1.20	1.44	1.73	2.11	2.71	3.29
Jul	.05	.14	.29	.44	.60	.79	1.00	1.27	1.63	2.24	2.83
Aug	.13	.20	.32	.43	.55	.68	.82	1.00	1.23	1.61	1.98
Sep	.01	.05	.14	.24	.36	.51	.69	.92	1.25	1.83	2.40
Oct	.02	.06	.15	.24	.34	.46	.61	.79	1.05	1.49	1.92
Nov	.09	.15	.25	.36	.46	.58	.72	.90	1.13	1.51	1.88
Dec	.10	.16	.27	.38	.50	.62	.77	.95	1.20	1.60	1.98
Ann	6.62	7.28	8.13	8.78	9.37	9.94	10.53	11.19	11.99	13.17	14.20

\+ 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: 1967-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Climate Division: ID 8 **NWS Call Sign: 27U** **Elevation: 3,931 Feet** **Lat: 45°11N** **Lon: 113°54W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	7.3	7.1	5	5
Feb	4.5	3.8	3	3
Mar	2.4	1.4	#	#
Apr	1.3	.1	#	0
May	.1	.0	#	0
Jun	.0	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	#	0
Sep	#	.0	0	0
Oct	.1	.0	#	0
Nov	4.3	2.8	#	#
Dec	7.9	6.5	3	2
Ann	27.9	21.7	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	10.5	2000	11	22.6	1975	17	1984	2	14	1984
Feb	6.0	1994	24	12.2	1994	15	1984	24	13	1984
Mar	4.2	1985	1	8.2	1985	11	1984	1	3	1984
Apr	7.5	1971	24	12.5	1971	1	1975	3	#+	1988
May	1.8	1996	3	2.1	1996	#+	1984	5	#+	1984
Jun	.0	0	0	.0	0	#	1984	19	#	1984
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	#	1990	25	#	1990
Sep	#	1984	24	#	1984	0	0	0	0	0
Oct	1.0	1984	29	1.3	1984	#+	1996	16	#+	1996
Nov	9.5	1991	27	19.2	1991	8	1975	30	3	2000
Dec	8.3	1983	30	22.3	1983	18	1983	31	8	1983
Ann	10.5	Jan 2000	11	22.6	Jan 1975	18	Dec 1983	31	14	Jan 1984

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.3	3.2	.7	.3	@
Feb	4.5	1.7	.4	.1	.0
Mar	2.3	1.0	.2	.0	.0
Apr	1.0	.5	.2	.1	.0
May	.1	.1	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.3	@	.0	.0	.0
Nov	3.4	1.9	.3	.1	.0
Dec	7.0	3.1	.8	.1	.0
Ann	25.9	11.5	2.6	.7	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	26.0	20.5	14.1	2.9
Feb	15.0	11.2	7.9	1.7
Mar	2.5	1.3	.8	.2
Apr	@	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	4.5	1.9	.7	.0
Dec	18.9	12.9	5.1	.6
Ann	66.9	47.8	28.6	5.4

+ 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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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	6/29	6/23	6/19	6/16	6/12	6/09	6/05	6/01	5/27
32	6/13	6/06	6/01	5/28	5/25	5/21	5/17	5/12	5/05
28	5/21	5/15	5/11	5/08	5/04	5/01	4/28	4/24	4/18
24	4/30	4/25	4/21	4/18	4/16	4/13	4/10	4/06	4/01
20	4/23	4/15	4/10	4/05	3/31	3/26	3/21	3/16	3/08
16	4/05	3/28	3/22	3/17	3/12	3/07	3/02	2/24	2/16

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	8/29	9/02	9/05	9/07	9/10	9/12	9/14	9/17	9/21
32	9/07	9/12	9/15	9/17	9/20	9/22	9/25	9/28	10/02
28	9/18	9/22	9/26	9/28	10/01	10/04	10/07	10/10	10/15
24	9/25	10/01	10/05	10/09	10/12	10/15	10/19	10/23	10/29
20	10/08	10/14	10/18	10/21	10/25	10/28	10/31	11/04	11/10
16	10/18	10/25	10/30	11/03	11/07	11/11	11/15	11/20	11/26

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	109	102	97	93	89	85	80	75	68
32	140	132	127	122	117	113	108	102	95
28	169	162	157	153	149	145	141	136	129
24	204	196	189	184	179	174	168	162	153
20	234	225	218	212	207	201	196	189	180
16	271	260	252	245	239	233	226	218	207

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1429	1090	861	574	335	140	34	50	238	613	1025	1387	7776
60	1274	950	706	425	196	60	8	12	127	458	875	1232	6323
57	1181	866	613	340	128	30	2	4	76	366	785	1139	5530
55	1119	810	551	286	92	17	0	1	51	306	725	1077	5035
50	964	670	401	168	30	3	0	0	13	170	575	922	3916
32	444	233	46	3	0	0	0	0	0	2	141	408	1277

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	37	67	207	419	691	900	1150	1085	769	412	106	44	5887
55	0	0	0	12	69	227	437	374	130	3	0	0	1252
57	0	0	0	6	44	180	377	314	95	1	0	0	1017
60	0	0	0	2	19	120	290	230	56	0	0	0	717
65	0	0	0	0	3	50	161	113	17	0	0	0	344
70	0	0	0	0	0	14	72	39	3	0	0	0	128

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	0	4	70	240	474	686	918	871	559	230	21	0	0	4	74	314	788	1474	2392	3263	3822	4052	4073	4073
45	0	0	18	126	322	536	763	716	413	121	4	0	0	0	18	144	466	1002	1765	2481	2894	3015	3019	3019
50	0	0	1	55	193	388	608	561	275	47	0	0	0	0	1	56	249	637	1245	1806	2081	2128	2128	2128
55	0	0	0	18	92	247	454	406	152	13	0	0	0	0	0	18	110	357	811	1217	1369	1382	1382	1382
60	0	0	0	0	34	134	306	257	61	0	0	0	0	0	0	0	34	168	474	731	792	792	792	792
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	8	70	189	319	434	567	547	393	196	15	0	0	8	78	267	586	1020	1587	2134	2527	2723	2738	2738

(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