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: WALLACE WOODLAND PARK, ID **COOP ID: 109498**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 2,940 Feet** **Lat: 47˚29N** **Lon: 115˚55W**

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	33.6	19.8	26.7	57	1981	23	34.8	1981	-27	1950	29	13.6	1979	1188	0	.0	.0	.4	11.7	29.0	2.7
Feb	38.9	22.6	30.8	67	1968	29	38.3	1992	-21	1950	1	21.3	1989	959	0	.0	.0	2.5	4.8	25.4	1.5
Mar	46.0	27.1	36.6	77	1978	30	44.4	1992	-16	1955	5	30.6	1976	882	0	.0	.0	9.7	.8	24.8	.1
Apr	54.7	32.7	43.7	91	1987	28	48.9	1987	15	1966	19	38.2	1975	639	0	.0	@	19.0	.0	15.0	.0
May	63.1	39.0	51.1	95	1986	30	57.2	1993	18	1954	1	46.8	1996	432	1	.0	.3	27.7	.0	4.0	.0
Jun	70.0	45.2	57.6	97	1973	23	63.3	1992	28+	1953	6	53.6+	1981	235	13	.0	.9	29.5	.0	.2	.0
Jul	78.3	48.9	63.6	102	1985	10	69.7	1985	33	1971	7	56.2	1993	121	77	.1	5.1	31.0	.0	.0	.0
Aug	79.3	48.4	63.9	106	1969	23	67.8	1971	30+	1965	31	58.4	1980	108	71	.0	5.4	30.9	.0	.0	.0
Sep	69.6	40.7	55.2	101	1967	1	62.3	1998	23+	2000	23	48.4	1985	316	20	.0	.9	29.3	.0	2.7	.0
Oct	57.2	33.2	45.2	87	1992	1	51.9	1988	9	1971	29	41.4	1984	614	0	.0	.0	23.3	.1	14.9	.0
Nov	40.7	27.5	34.1	70	1965	2	40.7	1999	-14	1955	16	23.0	1985	927	0	.0	.0	3.7	3.2	22.2	.3
Dec	33.3	20.9	27.1	56	1979	4	33.9	1979	-31	1968	30	17.3	1983	1175	0	.0	.0	.3	12.1	27.8	1.7
Ann	55.4	33.8	44.6	106	Aug 1969	23	69.7	Jul 1985	-31	Dec 1968	30	13.6	Jan 1979	7596	182	.1	12.6	207.3	32.7	166.0	6.3

\+ 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: 1948-2001

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

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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	5.12	4.60	3.07	1974	16	14.56	1974	.68	1985
Feb	4.10	3.45	2.23	1996	9	8.75	1996	.79	1973
Mar	3.68	3.50	1.35	1963	30	6.23	1995	.83	1992
Apr	2.91	2.53	2.36	1996	24	6.06	1996	.55	1977
May	3.01	2.80	2.51	1980	26	5.56	1980	.88	1999
Jun	2.61	2.06	3.08	1975	25	5.36	1981	.52	1979
Jul	1.41	1.30	1.16	1971	10	4.19	1993	.01	1973
Aug	1.37	1.05	1.86	1960	2	3.58	1989	.03	1988
Sep	1.75	1.50	1.67+	1968	18	3.96	1986	.01	1990
Oct	2.71	2.25	1.81	1985	25	6.62	1990	.03	1987
Nov	5.30	5.32	2.03	1994	1	10.66	1973	1.09	1979
Dec	5.25	5.12	2.45	1964	23	12.52	1996	1.29	1985
Ann	39.22	38.69	3.08	Jun 1975	25	14.56	Jan 1974	.01+	Sep 1990

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	17.2	11.7	3.3	.8
Feb	14.9	10.0	2.5	.6
Mar	16.4	10.6	1.8	.1
Apr	14.4	8.4	1.4	.1
May	14.8	8.8	1.4	.3
Jun	12.3	6.7	1.3	.3
Jul	7.8	4.0	.8	.1
Aug	7.0	3.6	.7	.2
Sep	8.4	5.1	.8	@
Oct	10.8	6.9	1.4	.4
Nov	17.7	11.6	3.6	.9
Dec	17.7	12.0	3.2	.8
Ann	159.4	99.4	22.2	4.6

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	1.19	1.67	2.42	3.09	3.76	4.47	5.26	6.21	7.45	9.42	11.27
Feb	1.02	1.41	2.00	2.53	3.06	3.61	4.23	4.96	5.92	7.44	8.86
Mar	1.48	1.81	2.29	2.69	3.06	3.44	3.85	4.33	4.93	5.85	6.69
Apr	1.06	1.33	1.73	2.06	2.37	2.70	3.05	3.46	3.98	4.78	5.52
May	1.15	1.43	1.83	2.16	2.48	2.80	3.15	3.55	4.06	4.85	5.57
Jun	.71	.96	1.34	1.67	1.99	2.33	2.70	3.15	3.72	4.63	5.48
Jul	.07	.15	.31	.50	.72	.97	1.29	1.69	2.27	3.25	4.23
Aug	.10	.18	.35	.54	.75	.99	1.29	1.66	2.17	3.05	3.91
Sep	.12	.23	.46	.70	.97	1.28	1.65	2.13	2.79	3.90	5.00
Oct	.31	.52	.90	1.28	1.68	2.13	2.66	3.31	4.20	5.67	7.10
Nov	1.48	1.99	2.75	3.41	4.06	4.74	5.49	6.38	7.54	9.35	11.04
Dec	1.76	2.26	2.99	3.61	4.20	4.81	5.48	6.26	7.26	8.81	10.24
Ann	27.91	30.10	32.91	35.04	36.93	38.76	40.65	42.74	45.27	48.94	52.12

+ 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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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	20.4	14.7	11	9	11.2	1990	28	55.6	1982	38+	1997	25	30	1985	9.1	5.8	2.7	1.1	.1	26.8	22.7	19.2	11.2
Feb	14.7	10.0	10	9	15.1	1996	23	39.1	1975	42	1975	10	31	1975	6.9	4.4	1.7	.7	.1	21.2	16.6	13.3	8.6
Mar	9.1	8.1	5	3	8.0	1976	25	23.7	1991	28	1971	5	23	1997	5.7	2.9	.8	.3	.0	16.8	11.1	8.5	4.6
Apr	2.4	1.4	1	#	5.6	1982	4	11.7	1982	20	1997	5	10	1997	1.8	.8	.1	.1	.0	2.4	1.4	.9	.3
May	.2	.0	#	0	3.8	1980	16	3.8	1980	2	1980	16	#+	1993	.2	.1	@	.0	.0	.2	.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	#	1984	23	#	1984	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.7	.0	#	0	5.9	1984	27	8.7	1984	6	1984	31	1	1984	.5	.2	.1	@	.0	.5	.2	.2	.0
Nov	10.6	7.8	1	1	10.5	1991	29	34.6	1973	18	1973	26	5	1973	5.4	2.8	1.0	.4	@	9.4	4.0	2.6	.6
Dec	20.7	14.2	6	3	15.0	1996	14	88.3	1996	54	1996	29	26	1996	9.4	6.2	2.5	1.2	.1	22.3	14.2	10.5	6.4
Ann	78.8	56.2	N/A	N/A	15.1	Feb 1996	23	88.3	Dec 1996	54	Dec 1996	29	31	Feb 1975	39.0	23.2	8.9	3.8	.3	99.6	70.2	55.2	31.7

+ 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	7/03	6/26	6/20	6/16	6/12	6/07	6/03	5/28	5/21
32	6/06	5/31	5/27	5/23	5/20	5/17	5/13	5/09	5/04
28	5/15	5/10	5/06	5/03	4/30	4/28	4/24	4/21	4/16
24	4/26	4/18	4/12	4/08	4/03	3/29	3/25	3/19	3/11
20	4/09	4/01	3/25	3/20	3/15	3/10	3/05	2/27	2/18
16	3/29	3/19	3/13	3/07	3/01	2/24	2/18	2/11	2/02

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	8/26	9/01	9/05	9/08	9/11	9/14	9/17	9/21	9/26
32	9/10	9/14	9/17	9/20	9/22	9/24	9/27	9/30	10/04
28	9/21	9/27	10/02	10/05	10/09	10/12	10/16	10/20	10/26
24	10/02	10/09	10/15	10/20	10/24	10/29	11/02	11/08	11/16
20	10/24	10/31	11/06	11/10	11/14	11/19	11/23	11/28	12/06
16	10/29	11/06	11/12	11/17	11/22	11/27	12/02	12/08	12/16

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	119	109	102	96	91	85	79	72	63
32	147	139	134	129	124	120	115	109	101
28	188	178	172	166	160	155	149	143	133
24	236	225	217	210	203	197	190	182	171
20	278	266	258	250	244	237	230	221	210
16	301	289	280	272	265	258	250	241	229

***** 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	1188	959	882	639	432	235	121	108	316	614	927	1175	7596
60	1033	819	727	489	286	121	50	41	201	459	777	1020	6023
57	940	735	634	400	207	72	24	19	144	368	687	927	5157
55	878	679	572	343	161	47	14	11	112	309	627	865	4618
50	723	539	420	210	73	11	2	2	51	176	482	710	3399
32	238	133	47	3	0	0	0	0	0	2	94	225	742

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	74	97	188	355	591	768	979	986	693	411	157	73	5372
55	0	0	0	4	39	124	281	284	116	6	0	0	854
57	0	0	0	1	23	90	229	230	88	3	0	0	664
60	0	0	0	0	9	49	161	159	54	1	0	0	433
65	0	0	0	0	1	13	77	71	20	0	0	0	182
70	0	0	0	0	0	2	25	20	6	0	0	0	53

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	5	41	152	354	543	753	763	475	199	20	0	0	5	46	198	552	1095	1848	2611	3086	3285	3305	3305
45	0	0	7	71	219	394	598	609	328	97	2	0	0	0	7	78	297	691	1289	1898	2226	2323	2325	2325
50	0	0	0	27	116	253	444	454	205	33	0	0	0	0	0	27	143	396	840	1294	1499	1532	1532	1532
55	0	0	0	8	54	140	295	303	107	11	0	0	0	0	0	8	62	202	497	800	907	918	918	918
60	0	0	0	0	18	64	170	176	42	1	0	0	0	0	0	0	18	82	252	428	470	471	471	471
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	5	34	107	216	320	458	478	311	144	9	0	0	5	39	146	362	682	1140	1618	1929	2073	2082	2082

(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