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: BAYVIEW MODEL BASIN, ID **COOP ID: 100667**

Climate Division: ID 1 **NWS Call Sign:** **Elevation: 2,075 Feet** **Lat: 47˚59N** **Lon: 116˚34W**

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	35.1	21.8	28.5	55+	1984	5	35.0	1994	-29	1950	29	15.9	1979	1133	0	.0	.0	.6	9.7	28.1	1.4
Feb	39.0	23.9	31.5	62+	1995	25	36.8	1991	-30	1950	1	21.5	1989	940	0	.0	.0	1.4	4.6	24.3	1.2
Mar	46.5	27.0	36.8	73	1966	30	40.2	1986	-12	1955	4	32.7	1976	876	0	.0	.0	7.8	.7	25.4	@
Apr	56.2	31.8	44.0	81+	1994	18	48.0	1994	16	1997	12	39.4	1975	631	0	.0	.0	22.7	.0	17.0	.0
May	65.6	38.4	52.0	92	1986	29	58.1	1993	24	1972	1	44.9	1996	404	2	.0	.1	29.8	.0	5.2	.0
Jun	73.5	44.7	59.1	98	1992	24	64.3	1992	28	2000	1	54.9	1981	198	21	.0	.3	29.9	.0	.3	.0
Jul	80.5	48.9	64.7	99	1961	14	70.7	1998	32	1971	7	59.3	1993	94	85	.0	2.8	31.0	.0	@	.0
Aug	80.1	47.6	63.9	101	1998	5	67.5	1994	30+	2001	27	59.4	1995	102	66	.1	2.6	31.0	.0	.1	.0
Sep	68.6	39.9	54.3	95+	1998	3	60.1	1998	20	1999	28	49.6	1971	330	7	.0	.4	29.8	.0	3.8	.0
Oct	55.7	32.0	43.9	81+	1952	3	48.2	1988	11+	1991	31	40.9	1984	656	0	.0	.0	24.9	@	15.4	.0
Nov	42.4	28.1	35.3	69	1999	12	39.7	1983	-17	1955	16	25.1	1985	893	0	.0	.0	4.6	2.0	21.5	.1
Dec	35.5	22.7	29.1	58+	1980	27	35.0	1979	-28	1968	30	21.8	1990	1113	0	.0	.0	.8	9.1	27.8	.9
Ann	56.6	33.9	45.3	101	Aug 1998	5	70.7	Jul 1998	-30	Feb 1950	1	15.9	Jan 1979	7370	181	.1	6.2	214.3	26.1	168.9	3.6

+ 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	2.66	2.41	1.45	1953	9	5.81	1974	.16	1985
Feb	2.32	2.47	1.70	1963	3	5.14	1979	.41	1973
Mar	2.18	2.16	1.09	1960	6	4.32	1997	.47	1992
Apr	1.94	1.83	1.70	1982	12	4.56	1982	.27	1998
May	2.37	2.23	1.55	1957	20	4.39	1980	.65	1983
Jun	1.92	1.66	1.55	1992	13	4.69	1971	.50	1998
Jul	1.25	1.01	2.02	1955	24	5.30	1993	.00	1973
Aug	1.19	1.09	1.88	1978	16	4.12	1978	.02	1973
Sep	1.25	1.10	1.72	1968	2	3.14	1973	.00+	1990
Oct	1.81	1.74	1.25	1951	23	4.62	1975	.00	1998
Nov	3.13	3.22	2.00	1989	12	5.55	1983	.71	1993
Dec	3.29	3.43	1.61	1975	4	6.46	1980	.75	1976
Ann	25.31	24.28	2.02	Jul 1955	24	6.46	Dec 1980	.00+	Oct 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.9	7.7	1.3	.1
Feb	11.5	7.1	1.0	.1
Mar	12.3	7.5	.7	@
Apr	10.9	6.4	.9	.1
May	11.2	6.7	1.0	.2
Jun	9.8	5.6	.9	.1
Jul	6.7	3.5	.7	.1
Aug	5.5	3.1	.5	.1
Sep	6.5	4.0	.5	@
Oct	8.2	4.9	1.0	.1
Nov	13.1	8.7	1.6	.3
Dec	13.7	8.8	1.8	.5
Ann	122.3	74.0	11.9	1.7

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	.61	.86	1.25	1.60	1.94	2.31	2.73	3.22	3.87	4.90	5.87
Feb	.66	.88	1.21	1.50	1.78	2.08	2.40	2.79	3.29	4.07	4.80
Mar	.79	.99	1.29	1.54	1.77	2.01	2.28	2.59	2.98	3.58	4.14
Apr	.53	.71	.99	1.24	1.48	1.73	2.01	2.33	2.76	3.44	4.06
May	.85	1.07	1.39	1.66	1.92	2.18	2.47	2.81	3.23	3.89	4.50
Jun	.52	.70	.97	1.22	1.46	1.70	1.98	2.31	2.74	3.41	4.03
Jul	.05	.15	.33	.51	.71	.93	1.20	1.54	2.00	2.78	3.54
Aug	.04	.09	.21	.36	.55	.77	1.05	1.41	1.94	2.86	3.78
Sep	.00	.14	.37	.57	.77	1.00	1.25	1.56	1.98	2.67	3.33
Oct	.07	.21	.47	.74	1.03	1.35	1.74	2.22	2.89	4.00	5.09
Nov	.88	1.18	1.63	2.02	2.40	2.80	3.25	3.77	4.45	5.52	6.51
Dec	1.05	1.36	1.82	2.22	2.60	3.00	3.43	3.94	4.59	5.61	6.55
Ann	18.69	19.99	21.64	22.89	23.99	25.06	26.15	27.36	28.82	30.92	32.73

\+ 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	7.6	6.7	4	2	9.0	1991	8	17.9	1991	20	1993	4	14	1978	5.7	3.2	1.3	.5	.0	-9.9	-9.9	-9.9	-9.9
Feb	8.2	10.0	3	2	10.5	1986	15	17.7	1971	18	1985	11	13	1975	2.9	2.0	.9	.2	@	10.3	5.8	3.4	1.3
Mar	1.0	.0	#	#	9.0	1996	4	9.0	1996	12	1996	6	3	1997	1.4	.6	.2	@	.0	1.9	.6	.0	.0
Apr	.3	.0	#	0	3.0	1997	4	3.5	1997	3	1997	4	#+	1997	.2	.1	@	.0	.0	.2	.1	.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	2	1997	1	#	1997	.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	.1	.0	#	0	2.5	1971	31	2.5	1971	3	1971	31	#	1971	@	@	.0	.0	.0	.1	.1	.0	.0
Nov	3.2	.1	#	0	7.5	1996	20	19.6	1973	11	1996	26	4	1996	1.7	.9	.3	.2	.0	1.6	.7	.5	.0
Dec	12.6	8.4	3	1	7.0	1971	9	41.1	1996	28	1996	30	10	1996	5.3	3.5	1.5	.6	.0	-9.9	-9.9	-9.9	-9.9
Ann	33.0	25.2	N/A	N/A	10.5	Feb 1986	15	41.1	Dec 1996	28	Dec 1996	30	14	Jan 1978	17.2	10.3	4.2	1.5	@	-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	7/07	6/30	6/25	6/20	6/16	6/12	6/08	6/02	5/26
32	6/14	6/07	6/01	5/27	5/23	5/18	5/14	5/08	5/01
28	5/18	5/12	5/08	5/04	5/01	4/28	4/24	4/20	4/14
24	4/18	4/13	4/09	4/05	4/02	3/30	3/26	3/22	3/16
20	4/12	4/02	3/26	3/20	3/14	3/08	3/02	2/23	2/13
16	4/02	3/20	3/09	3/01	2/21	2/13	2/04	1/25	1/11

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	8/21	8/26	8/30	9/03	9/06	9/09	9/12	9/16	9/21
32	8/28	9/04	9/09	9/13	9/16	9/20	9/24	9/29	10/06
28	9/16	9/22	9/26	9/30	10/03	10/07	10/11	10/15	10/21
24	9/27	10/05	10/11	10/16	10/21	10/25	10/30	11/05	11/13
20	10/14	10/23	10/29	11/03	11/08	11/12	11/17	11/23	12/02
16	10/31	11/10	11/18	11/24	11/30	12/06	12/13	12/20	12/31

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	111	101	93	87	81	75	68	61	50
32	147	136	129	122	116	110	103	95	85
28	185	174	167	160	154	148	142	135	124
24	232	221	214	207	201	195	188	181	170
20	274	262	253	245	238	231	223	214	201
16	328	310	298	288	279	270	261	250	235

***** 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	1133	940	876	631	404	198	94	102	330	656	893	1113	7370
60	978	800	721	481	261	98	31	35	201	501	743	958	5808
57	885	716	628	392	185	55	14	15	137	408	653	865	4953
55	823	660	566	334	143	34	8	8	101	346	593	803	4419
50	668	520	411	198	62	8	0	1	37	199	445	648	3197
32	192	109	19	0	0	0	0	0	0	1	64	168	553

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	83	93	166	359	621	812	1014	987	666	368	161	77	5407
55	0	0	0	3	51	156	308	282	77	1	0	0	878
57	0	0	0	1	32	117	252	227	53	0	0	0	682
60	0	0	0	0	14	70	177	154	27	0	0	0	442
65	0	0	0	0	2	21	85	66	7	0	0	0	181
70	0	0	0	0	0	4	26	17	1	0	0	0	48

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	1	5	21	138	359	547	750	736	441	158	30	4	1	6	27	165	524	1071	1821	2557	2998	3156	3186	3190
45	0	0	2	55	215	397	595	581	296	61	6	0	0	0	2	57	272	669	1264	1845	2141	2202	2208	2208
50	0	0	0	14	105	256	440	426	165	16	0	0	0	0	0	14	119	375	815	1241	1406	1422	1422	1422
55	0	0	0	0	40	137	288	277	69	2	0	0	0	0	0	0	40	177	465	742	811	813	813	813
60	0	0	0	0	9	55	156	141	21	0	0	0	0	0	0	0	9	64	220	361	382	382	382	382
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	2	17	95	226	338	466	466	284	109	10	0	0	2	19	114	340	678	1144	1610	1894	2003	2013	2013

(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

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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