

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: BAKER, OR

1971-2000

COOP ID: 350412

Climate Division: OR 8

NWS Call Sign: BKE

Elevation: 3,368 Feet Lat: 44° 50N

Lon: 117° 49W

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	34.4	17.0	25.7	59	1962	7	33.5	1981	-30	1950	31	10.0	1979	1219	0	.0	.0	.9	11.6	28.5	3.7
Feb	41.7	22.1	31.9	66	1986	24	39.7	1992	-28	1989	7	15.3	1989	927	0	.0	.0	5.1	4.1	24.5	1.3
Mar	51.0	27.1	39.1	78	1978	29	44.9	1986	-5	1955	5	33.7	1985	805	0	.0	.0	16.5	.3	24.4	.0
Apr	59.2	31.3	45.3	89	1977	24	50.6	1987	12	1968	13	40.1	1975	593	0	.0	.0	25.0	.0	17.5	.0
May	67.0	38.3	52.7	94+	2001	23	57.3	1993	17	1999	10	48.8	1977	384	1	.0	.3	30.1	.0	5.7	.0
Jun	75.2	44.3	59.8	102	1961	17	64.6	1974	26	1962	4	55.3	1991	184	26	.0	2.2	30.0	.0	.6	.0
Jul	84.5	48.4	66.5	103	1960	18	72.0	1985	30	1955	2	57.8	1993	71	116	.3	10.0	31.0	.0	.1	.0
Aug	84.9	47.4	66.2	106	1961	4	69.9	1971	27	1992	24	62.2	1976	65	100	.4	10.5	31.0	.0	.2	.0
Sep	75.5	39.0	57.3	101	1998	3	63.6	1990	17+	1961	24	51.1	1971	258	24	.1	2.0	29.8	.0	5.4	.0
Oct	62.7	30.3	46.5	89+	1996	9	53.6	1988	9+	1971	29	42.8	1995	573	0	.0	.0	27.7	@	19.2	.0
Nov	44.9	24.4	34.7	72	1999	13	41.9	1999	-16	1955	15	23.3	1985	909	0	.0	.0	8.7	2.4	24.2	.4
Dec	35.3	17.4	26.4	60	1995	12	33.7	1973	-39	1978	30	15.0	1978	1198	0	.0	.0	1.4	10.2	28.7	2.8
Ann	59.7	32.3	46.0	106	Aug 1961	4	72.0	Jul 1985	-39	Dec 1978	30	10.0	Jan 1979	7186	267	.8	25.0	237.2	28.6	179.0	8.2

+ 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

008-A

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Elevation: 3,368 Feet Lat: 44°50N

Lon: 117°49W

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	.91	.87	.76	1971	17	2.59	1971	.19	1992	11.7	2.6	.2	.0	.28	.37	.50	.61	.71	.83	.95	1.09	1.28	1.57	1.84
Feb	.63	.55	.78	1966	6	1.66	1986	.10	1997	9.4	1.9	.0	.0	.17	.23	.32	.40	.47	.56	.65	.76	.90	1.12	1.32
Mar	.83	.73	.68	1981	25	1.81	1983	.21	1988	9.7	2.7	.1	.0	.26	.33	.45	.55	.65	.75	.86	.99	1.16	1.43	1.67
Apr	.86	.79	1.34	1978	27	3.58	1978	.03	1977	9.3	2.6	.2	@	.18	.25	.38	.50	.61	.74	.88	1.05	1.27	1.63	1.97
May	1.35	1.15	1.65	1953	29	4.20	1998	.25	1982	10.0	4.3	.5	.1	.30	.42	.62	.80	.98	1.17	1.39	1.64	1.98	2.52	3.02
Jun	1.24	1.19	1.96	1958	8	3.16	1992	.21+	1994	7.9	3.8	.6	.1	.27	.38	.57	.73	.90	1.07	1.27	1.51	1.82	2.32	2.79
Jul	.69	.58	1.59	1982	1	2.33	1982	.00	1979	4.9	1.9	.2	@	.02	.07	.16	.26	.36	.49	.64	.84	1.10	1.56	2.01
Aug	.87	.55	2.29	1984	31	3.52	1984	.01	1991	5.0	2.3	.4	.1	.03	.06	.15	.26	.40	.56	.76	1.03	1.42	2.10	2.78
Sep	.73	.39	1.28	1978	5	2.72	1980	.00+	1999	4.8	1.9	.4	.1	.00	.00	.07	.18	.32	.47	.65	.89	1.23	1.79	2.36
Oct	.57	.49	.80	1982	29	1.70	1982	.00+	1987	5.8	1.8	.1	.0	.00	.10	.22	.31	.40	.49	.59	.71	.87	1.12	1.37
Nov	.97	.78	.83	1996	18	2.03	1981	.23	1976	11.3	3.2	.1	.0	.24	.34	.48	.60	.72	.85	1.00	1.17	1.39	1.74	2.07
Dec	.95	.96	.66	1964	22	2.60	1983	.05	1976	11.0	3.4	.1	.0	.10	.17	.31	.44	.58	.74	.93	1.16	1.48	2.01	2.53
Ann	10.60	10.30	2.29	Aug 1984	31	4.20	May 1998	.00+	Sep 1999	100.8	32.4	2.9	.4	7.10	7.76	8.61	9.27	9.85	10.42	11.01	11.67	12.47	13.64	14.65

+ 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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: BAKER, OR

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NWS Call Sign: BKE

Elevation: 3,368 Feet

Lat: 44° 50N

Lon: 117° 49W

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	6.6	5.6	3	2	6.4	2000	10	16.6	2000	19	1984	4	13	1989	8.2	1.9	.3	.1	.0	17.2	12.9	9.4	3.2
Feb	4.1	3.2	2	1	4.4	1994	24	18.1	1999	14+	1989	5	12	1989	5.6	1.6	.1	.0	.0	9.4	7.0	4.9	2.1
Mar	2.8	2.2	#	0	4.4	1996	27	8.0	1977	10	1989	6	3	1985	4.1	.8	.2	.0	.0	2.8	1.5	.9	@
Apr	1.1	.5	#	0	2.6	1975	14	5.5	1975	2+	1977	1	#	1992	2.2	.2	.0	.0	.0	.4	.0	.0	.0
May	.4	.0	#	0	5.6	1974	18	6.0	1974	1	1986	6	#	2000	.4	.1	@	@	.0	@	.0	.0	.0
Jun	.0	.0	0	0	.4	1979	6	.4	1979	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	#	1996	15	#+	1996	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.2	.0	#	0	1.9	1971	30	2.2	1971	2	1971	31	#	1982	.4	.0	.0	.0	.0	.1	.0	.0	.0
Nov	4.0	3.9	#	0	5.9	1995	27	9.3	1988	5+	1995	28	2	1985	4.8	1.4	.2	@	.0	4.1	1.4	.1	.0
Dec	7.4	6.6	1	1	7.7	1988	29	27.5	1983	18	1983	31	7	1983	8.2	2.7	.3	.1	.0	12.5	6.1	3.7	.3
Ann	26.6	22.0	N/A	N/A	7.7	Dec 1988	29	27.5	Dec 1983	19	Jan 1984	4	13	Jan 1989	33.9	8.7	1.1	.2	.0	46.5	28.9	19.0	5.6

+ 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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Elevation: 3,368 Feet

Lat: 44° 50N

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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	7/13	7/07	7/03	6/29	6/26	6/22	6/19	6/15	6/09
32	6/27	6/19	6/13	6/08	6/03	5/29	5/24	5/18	5/10
28	5/28	5/22	5/18	5/15	5/12	5/08	5/05	5/01	4/25
24	5/08	5/03	4/29	4/26	4/23	4/20	4/16	4/12	4/07
20	4/30	4/22	4/16	4/11	4/06	4/01	3/27	3/21	3/12
16	4/03	3/23	3/15	3/08	3/02	2/24	2/17	2/09	1/29
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	8/23	8/27	8/30	9/02	9/05	9/08	9/12	9/17
32	9/02	9/06	9/09	9/11	9/13	9/16	9/18	9/21	9/25
28	9/11	9/16	9/20	9/23	9/26	9/29	10/02	10/06	10/11
24	9/21	9/26	9/30	10/03	10/06	10/09	10/12	10/16	10/21
20	10/06	10/10	10/13	10/15	10/17	10/20	10/22	10/25	10/29
16	10/21	10/27	10/31	11/04	11/08	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	92	83	77	72	68	63	58	52	43
32	128	119	112	107	102	96	91	84	75
28	159	152	146	141	137	132	127	122	114
24	187	180	175	170	166	162	157	152	145
20	221	212	205	199	194	188	183	176	167
16	291	277	267	258	250	242	233	223	209

* 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	1219	927	805	593	384	184	71	65	258	573	909	1198	7186
60	1064	787	650	443	241	88	22	18	150	419	759	1043	5684
57	971	703	557	356	166	48	9	7	100	329	669	950	4865
55	909	654	495	300	124	29	4	3	73	271	609	888	4359
50	762	523	346	173	48	6	0	0	26	145	466	734	3229
32	301	164	24	1	0	0	0	0	0	1	89	268	848

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	105	161	242	398	640	833	1068	1058	756	450	170	94	5975
55	1	7	0	7	51	171	359	348	139	8	0	0	1091
57	0	0	0	3	31	130	302	290	106	4	0	0	866
60	0	0	0	0	13	80	221	209	66	1	0	0	590
65	0	0	0	0	1	26	116	100	24	0	0	0	267
70	0	0	0	0	0	5	45	33	6	0	0	0	89

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	2	17	69	189	408	605	831	822	521	231	36	2	2	19	88	277	685	1290	2121	2943	3464	3695	3731	3733
45	0	1	20	90	264	456	676	667	372	118	10	0	0	1	21	111	375	831	1507	2174	2546	2664	2674	2674
50	0	0	0	36	145	311	521	513	238	46	0	0	0	0	0	36	181	492	1013	1526	1764	1810	1810	1810
55	0	0	0	8	66	183	369	358	129	11	0	0	0	0	0	8	74	257	626	984	1113	1124	1124	1124
60	0	0	0	0	23	88	226	215	52	0	0	0	0	0	0	0	23	111	337	552	604	604	604	604
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	11	64	157	278	387	525	521	385	213	25	0	0	11	75	232	510	897	1422	1943	2328	2541	2566	2566

(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/normals/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