

Climatology of the United States

No. 20

1971-2000

Station: OAKLEY, ID

COOP ID: 106542

Climate Division: ID10

NWS Call Sign:

Elevation: 4,560 Feet Lat: 42° 14N

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	36.6	19.1	27.9	61+	1990	9	36.2	1998	-25+	1937	21	15.9	1979	1151	0	.0	.0	3.3	7.8	27.6	2.1
Feb	42.6	23.2	32.9	70	1977	20	40.5	1992	-27	1933	9	23.9	1989	899	0	.0	.0	8.2	3.0	23.2	.9
Mar	50.5	28.2	39.4	76	1940	22	45.6	1986	-2	1955	20	33.1	1976	794	0	.0	.0	17.6	.4	21.5	.0
Apr	58.7	32.9	45.8	88	1946	25	52.0	1992	2	1936	1	38.1	1975	577	0	.0	.0	24.5	@	13.4	.0
May	66.6	40.1	53.4	92	1954	19	59.6	1992	17	1967	1	48.4	1977	365	4	.0	.0	29.8	.0	3.8	.0
Jun	76.0	47.5	61.8	104+	1955	21	66.9	1986	28+	1995	7	57.3	1998	145	48	.0	1.8	29.9	.0	.2	.0
Jul	83.1	54.1	68.6	105	1933	26	72.9	1985	33	1981	8	61.0	1993	33	145	.1	5.3	31.0	.0	.0	.0
Aug	83.1	53.5	68.3	102	1933	13	71.8	2000	32	1932	30	62.8	1976	46	148	@	5.4	31.0	.0	.0	.0
Sep	73.8	44.7	59.3	97	1955	6	65.8	1990	18	1965	19	53.2	1986	207	35	.0	.6	29.8	.0	1.8	.0
Oct	62.4	35.8	49.1	91	1940	12	55.2	1988	9	1971	29	44.2	1984	494	0	.0	@	27.7	.1	9.1	.0
Nov	46.0	26.6	36.3	76	1958	9	45.4	1999	-12	1955	16	28.8	1985	860	0	.0	.0	12.4	2.4	20.4	.2
Dec	37.4	19.4	28.4	73	1939	8	34.0	1977	-24	1990	22	18.2	1990	1135	0	.0	.0	3.8	7.2	27.8	1.4
Ann	59.7	35.4	47.6	105	Jul 1933	26	72.9	Jul 1985	-27	Feb 1933	9	15.9	Jan 1979	6706	380	.1	13.1	249.0	20.9	148.8	4.6

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1931-2001

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

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: OAKLEY, ID

COOP ID: 106542

Climate Division: ID10

NWS Call Sign:

Elevation: 4,560 Feet Lat: 42°14N

Lon: 113°54W

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	.82	.65	1.00	1936	15	2.70	1980	.11	1989	7.3	2.9	.1	.0	.12	.19	.31	.42	.54	.67	.82	1.00	1.24	1.63	2.00
Feb	.64	.59	.75+	1996	22	2.42	1986	.11	1988	6.1	2.3	.1	.0	.13	.19	.28	.37	.45	.54	.65	.77	.94	1.20	1.45
Mar	1.09	1.01	1.28	1995	21	2.68	1995	.24	1997	7.6	3.3	.3	@	.18	.28	.44	.59	.74	.91	1.10	1.33	1.64	2.13	2.61
Apr	1.11	.94	1.11	1954	28	3.67	1999	.12	1980	6.8	3.9	.4	@	.15	.24	.40	.55	.71	.89	1.10	1.36	1.71	2.28	2.83
May	1.71	1.44	1.40	1964	29	3.66	1980	.18	1974	9.4	5.0	.6	.1	.34	.49	.75	.98	1.21	1.46	1.75	2.09	2.54	3.26	3.95
Jun	1.19	1.13	1.23	1944	9	3.52	1995	.00	1994	6.3	3.9	.4	.1	.07	.18	.36	.54	.72	.93	1.17	1.46	1.87	2.53	3.17
Jul	.78	.74	1.13	1952	31	2.03	1975	.00+	1990	4.2	2.4	.5	.0	.00	.09	.23	.35	.48	.62	.78	.97	1.24	1.67	2.09
Aug	.73	.59	1.32	1979	8	2.55	1983	.00+	1988	4.3	2.1	.2	.1	.00	.04	.14	.25	.37	.51	.68	.90	1.20	1.71	2.22
Sep	.96	.75	1.46	1993	19	2.84	1997	.00+	1999	4.2	2.8	.5	.1	.00	.00	.15	.30	.46	.66	.89	1.18	1.59	2.29	2.98
Oct	.80	.69	1.51	1946	2	2.19	1972	.00+	1988	4.9	2.6	.3	.0	.00	.09	.24	.37	.50	.65	.81	1.00	1.27	1.71	2.13
Nov	.79	.72	.83+	1958	14	2.01	1971	.00	1993	6.7	3.0	.2	.0	.08	.17	.30	.42	.53	.66	.80	.97	1.20	1.56	1.91
Dec	.70	.57	1.39	1964	23	2.56	1996	.00+	1989	6.0	2.9	.1	.0	.00	.03	.12	.22	.33	.47	.64	.85	1.15	1.66	2.17
Ann	11.32	11.24	1.51	Oct 1946	2	3.67	Apr 1999	.00+	Sep 1999	73.8	37.1	3.7	.4	7.09	7.87	8.89	9.68	10.38	11.08	11.80	12.61	13.60	15.06	16.34

+ 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: 1931-2001

(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: OAKLEY, ID

COOP ID: 106542

Climate Division: ID10

NWS Call Sign:

Elevation: 4,560 Feet

Lat: 42° 14N

Lon: 113° 54W

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	5.8	5.5	1	#	7.0	1981	30	15.1	1993	6	1996	26	3	1984	3.5	2.9	1.0	.1	.0	7.3	3.0	.4	.0
Feb	4.5	3.8	#	#	8.0	1996	22	12.0	1996	5	1996	22	4	1979	2.2	2.2	.6	.1	.0	2.1	.6	.1	.0
Mar	3.3	3.0	#	0	7.0	1985	2	8.0+	1982	6	1985	2	1	1976	1.4	1.2	.5	.1	.0	1.0	.4	.1	.0
Apr	1.0	.0	#	0	4.0	1971	18	7.0	1971	2+	1999	9	#+	1999	.6	.6	.1	.0	.0	.1	.0	.0	.0
May	.7	.0	#	0	10.0	1975	4	12.3	1975	4	1975	4	#+	1997	.2	.2	.1	@	@	.1	@	.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	.1	.0	0	0	2.0	1982	30	2.0	1982	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Oct	.2	.0	#	0	2.0	1996	26	2.0+	2000	#	1997	29	#	1997	.1	.1	.0	.0	.0	.0	.0	.0	.0
Nov	3.1	1.5	#	0	6.0	1971	14	14.0	1975	10	1985	12	4	1985	1.6	1.5	.4	.2	.0	1.6	.9	.1	.0
Dec	5.2	3.0	1	#	8.0	1983	24	29.1	1983	12	1983	24	5	1983	2.4	2.2	.8	.3	.0	5.7	2.5	.5	.0
Ann	23.9	16.8	N/A	N/A	10.0	May 1975	4	29.1	Dec 1983	12	Dec 1983	24	5	Dec 1983	12.0	10.9	3.5	.8	@	17.9	7.4	1.2	.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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Elevation: 4,560 Feet

Lat: 42° 14N

Lon: 113° 54W

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	6/13	6/09	6/06	6/02	5/27
32	6/13	6/07	6/02	5/28	5/25	5/21	5/16	5/12	5/05
28	5/19	5/13	5/08	5/04	5/01	4/27	4/23	4/19	4/12
24	5/09	5/01	4/24	4/19	4/14	4/09	4/03	3/28	3/19
20	4/20	4/11	4/04	3/30	3/24	3/19	3/14	3/07	2/26
16	4/05	3/26	3/19	3/12	3/06	2/28	2/22	2/15	2/04
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	9/01	9/05	9/09	9/12	9/15	9/17	9/20	9/24	9/29
32	9/11	9/16	9/20	9/24	9/27	9/30	10/04	10/08	10/13
28	9/23	9/29	10/03	10/06	10/10	10/13	10/16	10/20	10/26
24	10/07	10/12	10/17	10/20	10/24	10/27	10/31	11/04	11/10
20	10/14	10/21	10/26	10/31	11/04	11/08	11/12	11/17	11/24
16	10/28	11/04	11/08	11/12	11/15	11/19	11/22	11/27	12/03
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	115	107	102	98	93	89	85	79	72
32	150	141	135	130	125	120	114	108	100
28	187	178	172	166	161	156	151	144	135
24	227	215	206	199	192	185	178	169	157
20	262	249	239	231	224	216	208	199	186
16	289	277	268	260	253	246	238	229	217

* 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: ID10 NWS Call Sign: Elevation: 4,560 Feet Lat: 42° 14N Lon: 113° 54W

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	1151	899	794	577	365	145	33	46	207	494	860	1135	6706
60	996	759	639	434	228	65	7	13	110	344	710	980	5285
57	903	675	546	351	160	34	1	4	68	260	620	887	4509
55	841	619	485	299	121	20	0	2	46	209	562	825	4029
50	688	486	340	187	51	4	0	0	13	106	422	670	2967
32	227	114	26	7	0	0	0	0	0	1	74	203	652

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	100	139	254	420	661	893	1134	1125	818	530	203	91	6368
55	0	0	1	22	69	223	422	414	174	25	2	0	1352
57	0	0	0	14	46	176	361	354	136	14	0	0	1101
60	0	0	0	6	21	117	273	269	88	5	0	0	779
65	0	0	0	0	4	48	145	148	35	0	0	0	380
70	0	0	0	0	0	13	58	64	10	0	0	0	145

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	9	36	97	221	439	672	909	904	607	331	71	10	9	45	142	363	802	1474	2383	3287	3894	4225	4296	4306
45	0	6	37	119	293	522	754	749	459	206	28	0	0	6	43	162	455	977	1731	2480	2939	3145	3173	3173
50	0	0	5	54	171	376	599	595	320	105	6	0	0	0	5	59	230	606	1205	1800	2120	2225	2231	2231
55	0	0	0	17	84	242	445	441	192	39	0	0	0	0	0	17	101	343	788	1229	1421	1460	1460	1460
60	0	0	0	1	32	132	292	289	97	6	0	0	0	0	0	1	33	165	457	746	843	849	849	849
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	2	25	70	156	275	423	589	588	393	226	50	3	2	27	97	253	528	951	1540	2128	2521	2747	2797	2800

(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