

Climatology of the United States

No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: LOOKOUT POINT DAM, OR

1971-2000

COOP ID: 355050

Climate Division: OR 2

NWS Call Sign:

Elevation: 712 Feet

Lat: 43° 55N

Lon: 122° 46W

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	47.5	34.6	41.1	70	1961	8	45.6	1998	6+	1979	2	32.1	1979	743	0	.0	.0	12.0	.6	11.1	.0
Feb	51.7	36.6	44.2	73+	1995	20	49.5	1992	7	1989	5	36.8	1989	584	0	.0	.0	17.0	.2	5.9	.0
Mar	55.6	38.8	47.2	77	1987	5	52.0	1992	23	1971	2	43.1	1971	552	0	.0	.0	25.2	.0	2.4	.0
Apr	59.7	41.4	50.6	84+	1998	30	54.9	1992	28	1970	29	45.5	1975	434	0	.0	.0	27.7	.0	.5	.0
May	65.6	45.2	55.4	91	2001	23	61.1	1992	30	1987	19	51.2	1977	301	4	.0	.1	30.8	.0	@	.0
Jun	71.7	49.5	60.6	101	1992	23	65.2	1992	36+	1976	4	56.9	1976	152	20	@	.6	30.0	.0	.0	.0
Jul	79.7	53.3	66.5	101	1961	13	70.5	1985	40	1969	15	62.2	1993	52	99	@	3.9	31.0	.0	.0	.0
Aug	80.6	53.3	67.0	106	1981	10	70.8	1986	42	1973	18	63.8	1975	36	95	.2	4.0	31.0	.0	.0	.0
Sep	75.4	50.2	62.8	101	1987	1	66.3	1974	33	1999	27	58.8	1985	112	45	@	.9	30.0	.0	.0	.0
Oct	64.6	45.1	54.9	89+	1987	7	58.7	1988	28	1985	9	51.0	1971	316	1	.0	.0	30.2	.0	.3	.0
Nov	52.8	39.8	46.3	72	1967	1	50.8	1999	16+	1955	16	39.3	1985	560	0	.0	.0	21.0	.1	3.0	.0
Dec	46.9	35.2	41.1	72	1979	18	45.3	1979	3	1990	21	34.6	1990	742	0	.0	.0	11.2	.8	9.3	.0
Ann	62.7	43.6	53.1	106	Aug 1981	10	70.8	Aug 1986	3	Dec 1990	21	32.1	Jan 1979	4584	264	.2	9.5	297.1	1.7	32.5	.0

+ 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: 1955-2001

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

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Elevation: 712 Feet Lat: 43°55N

Lon: 122°46W

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	6.03	6.63	3.56	1966	4	11.23	2000	.74	1985	19.2	12.6	4.0	1.1	1.52	2.09	2.97	3.75	4.51	5.32	6.22	7.29	8.69	10.90	12.97
Feb	5.21	4.71	4.05	1961	10	9.96	1986	1.52	1988	18.1	12.0	3.2	.6	1.97	2.45	3.15	3.73	4.28	4.84	5.45	6.16	7.06	8.44	9.71
Mar	5.05	4.81	1.55	1997	2	10.25	1989	1.59	1992	19.9	13.0	3.1	.5	2.28	2.73	3.35	3.85	4.32	4.79	5.29	5.87	6.60	7.70	8.70
Apr	4.23	4.08	2.54	1992	10	7.82	1993	1.66	1987	18.4	11.8	2.4	.2	1.80	2.18	2.72	3.16	3.57	3.99	4.43	4.95	5.60	6.59	7.49
May	3.47	3.17	1.59	1991	8	7.32	1998	.67	1982	14.6	9.2	2.1	.3	1.00	1.33	1.83	2.26	2.68	3.12	3.60	4.18	4.92	6.08	7.16
Jun	2.12	1.77	1.34	1969	26	4.94	1993	.58	1977	9.3	5.9	1.3	.1	.69	.89	1.19	1.44	1.68	1.94	2.21	2.54	2.95	3.60	4.20
Jul	.79	.49	1.49	1987	19	3.52	1987	.01	1972	4.9	2.2	.4	.1	.02	.06	.14	.24	.36	.51	.69	.94	1.29	1.91	2.53
Aug	1.10	.73	2.07	1989	23	4.07	1989	.00+	2000	5.4	2.6	.8	.1	.00	.00	.05	.21	.41	.65	.95	1.34	1.89	2.83	3.80
Sep	1.76	1.62	2.32	1981	27	4.54	1986	.09	1991	7.4	4.8	1.0	.1	.10	.20	.42	.65	.92	1.24	1.63	2.12	2.81	3.99	5.17
Oct	3.28	2.97	2.00	1955	10	7.11	1996	.12	1987	12.2	7.6	2.2	.3	.57	.85	1.33	1.78	2.24	2.74	3.31	4.00	4.92	6.40	7.83
Nov	7.11	6.10	5.50	1996	19	16.92	1973	2.09	1993	20.1	14.1	4.8	1.5	2.25	2.93	3.93	4.78	5.61	6.46	7.40	8.50	9.91	12.12	14.16
Dec	6.57	5.36	4.62	1981	6	15.43	1981	1.23	1976	20.1	13.6	4.3	1.1	1.73	2.35	3.30	4.14	4.96	5.83	6.79	7.94	9.42	11.77	13.96
Ann	46.72	46.22	5.50	Nov 1996	19	16.92	Nov 1973	.00+	Aug 2000	169.6	109.4	29.6	6.0	34.04	36.52	39.68	42.08	44.19	46.24	48.35	50.67	53.48	57.55	61.06

+ 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: 1955-2001

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

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Lat: 43°55N

Lon: 122°46W

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	1.4	.0	#	0	6.6	1971	14	9.1	1971	8	1971	14	#+	1993	.7	.5	.1	.1	.0	.2	.1	@	.0
Feb	1.3	.0	#	0	4.4	1989	2	6.6	1989	6	1989	2	1	1989	.6	.4	.1	.0	.0	.5	.2	.1	.0
Mar	.0	.0	#	0	.0	0	0	.0	0	2	1971	1	#	1971	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	#	.0	0	0	#	1971	17	#	1971	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	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	#	0	#	1983	20	#	1983	#	1983	20	#	1983	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	1.4	.0	#	0	4.5	1990	19	6.9	1972	5+	1990	19	1	1990	.9	.4	.2	.0	.0	.9	.4	.1	.0
Ann	4.1	.0	N/A	N/A	6.6	Jan 1971	14	9.1	Jan 1971	8	Jan 1971	14	1+	Dec 1990	2.2	1.3	.4	.1	.0	1.6	.7	.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

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Lon: 122° 46W

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	5/21	5/14	5/08	5/03	4/29	4/24	4/20	4/14	4/06
32	4/21	4/10	4/01	3/25	3/19	3/12	3/05	2/25	2/13
28	3/03	2/20	2/12	2/05	1/30	1/23	1/16	1/06	12/20
24	2/15	2/06	1/30	1/23	1/16	1/08	12/25	0/00	0/00
20	2/08	1/27	1/17	1/08	12/28	12/10	0/00	0/00	0/00
16	1/22	1/03	0/00	0/00	0/00	0/00	0/00	0/00	0/00
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	10/08	10/17	10/23	10/28	11/02	11/07	11/12	11/19	11/27
32	10/26	11/03	11/08	11/13	11/18	11/22	11/27	12/02	12/10
28	11/09	11/19	11/26	12/02	12/08	12/14	12/20	12/29	1/13
24	11/28	12/10	12/20	12/28	1/07	1/19	0/00	0/00	0/00
20	12/06	12/21	1/01	1/12	1/24	2/15	0/00	0/00	0/00
16	12/27	1/14	0/00	0/00	0/00	0/00	0/00	0/00	0/00
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	220	209	200	193	187	180	173	164	153
32	285	271	260	251	243	235	226	215	201
28	>365	357	334	321	311	302	293	282	268
24	>365	>365	>365	>365	>365	359	337	322	307
20	>365	>365	>365	>365	>365	>365	>365	347	326
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

* 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

Complete documentation available from:

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NWS Call Sign:

Elevation: 712 Feet Lat: 43°55N Lon: 122°46W

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	743	584	552	434	301	152	52	36	112	316	560	742	4584
60	588	444	397	287	166	59	11	5	39	174	411	587	3168
57	495	360	310	206	104	26	3	0	16	105	327	494	2446
55	435	308	252	157	72	13	1	0	7	70	273	433	2021
50	293	183	132	67	19	1	0	0	0	18	156	288	1157
32	14	2	0	0	0	0	0	0	0	0	2	10	28

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	294	342	471	556	725	858	1070	1082	923	708	432	291	7752
55	2	4	10	23	84	181	357	369	240	65	13	1	1349
57	0	0	5	12	55	134	298	308	188	38	7	0	1045
60	0	0	0	4	24	77	213	220	122	14	1	0	675
65	0	0	0	0	4	20	99	95	45	1	0	0	264
70	0	0	0	0	0	2	30	23	10	0	0	0	65

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	105	156	238	332	488	630	832	843	692	473	217	106	105	261	499	831	1319	1949	2781	3624	4316	4789	5006	5112
45	38	61	111	187	335	480	677	688	542	319	100	33	38	99	210	397	732	1212	1889	2577	3119	3438	3538	3571
50	1	15	35	86	196	330	522	533	393	176	35	3	1	16	51	137	333	663	1185	1718	2111	2287	2322	2325
55	0	0	4	34	92	191	367	378	246	74	5	0	0	0	4	38	130	321	688	1066	1312	1386	1391	1391
60	0	0	0	5	32	84	222	227	120	18	0	0	0	0	0	5	37	121	343	570	690	708	708	708
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	31	60	105	160	262	356	514	524	412	240	71	30	31	91	196	356	618	974	1488	2012	2424	2664	2735	2765

(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