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: DALLAS 2 NE, OR **COOP ID: 352112**

Climate Division: OR 2 **NWS Call Sign:** **Elevation: 290 Feet** **Lat: 44˚57N** **Lon: 123˚18W**

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	45.3	33.1	39.2	65	1984	4	42.9	1994	-11	1950	31	31.8	1979	800	0	.0	.0	10.2	.8	13.3	.0
Feb	49.7	34.8	42.3	71	1968	27	47.8	1992	-2	1950	3	35.4	1989	637	0	.0	.0	16.3	.5	9.9	.0
Mar	55.2	36.9	46.1	90	1949	22	51.1	1992	10	1971	1	41.0	1971	589	0	.0	.0	26.3	.0	7.6	.0
Apr	60.4	39.4	49.9	88	1957	29	53.5	1989	24	1969	30	45.2	1975	453	0	.0	.0	29.1	.0	3.9	.0
May	66.9	43.7	55.3	98	1983	28	60.3	1997	27	1954	1	51.3	1977	304	3	.0	.4	31.0	.0	.6	.0
Jun	73.0	47.8	60.4	102+	1992	23	64.6	1986	31	1976	3	55.4	1971	160	21	.1	1.7	30.0	.0	@	.0
Jul	80.9	50.4	65.7	106	1956	19	69.6	1996	35	1962	4	61.7	1993	58	77	.6	6.0	31.0	.0	.0	.0
Aug	81.5	49.8	65.7	106	1981	8	69.5	1997	34+	1985	31	61.8	1980	61	82	.9	6.4	31.0	.0	.0	.0
Sep	76.7	47.0	61.9	104	1944	6	65.6	1974	30	1971	30	58.1	1986	134	39	.2	3.0	30.0	.0	.1	.0
Oct	64.7	41.2	53.0	91+	1988	2	57.5	1987	22+	1971	29	50.0	1971	374	0	.0	.1	30.6	.0	2.1	.0
Nov	50.7	37.2	44.0	76	1966	1	49.7	1995	9	1955	15	37.0	1985	633	0	.0	.0	19.3	.1	6.9	.0
Dec	44.2	33.2	38.7	66	1964	28	42.6	1974	-2+	1972	11	33.2	1985	815	0	.0	.0	7.7	1.1	13.1	.1
Ann	62.4	41.2	51.9	106+	Aug 1981	8	69.6	Jul 1996	-11	Jan 1950	31	31.8	Jan 1979	5018	222	1.8	17.6	292.5	2.5	57.5	.1

+ 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: 1928-2001

(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	7.82	8.52	3.91	1974	15	13.71	1995	.26	1985
Feb	6.66	6.28	3.23	1996	6	17.05	1999	1.29	1988
Mar	5.33	5.14	2.30	1943	31	11.18	1983	1.10	1992
Apr	3.24	2.63	2.33	1937	13	7.20	1996	.67	1977
May	2.21	2.05	1.57	1991	17	5.80	1998	.02	1992
Jun	1.41	1.19	1.53	2001	27	3.78	1981	.10	1987
Jul	.50	.32	1.75	1987	18	2.05	1987	.00+	1994
Aug	.67	.55	1.21	1954	30	1.73+	1978	.00+	1998
Sep	1.44	.96	1.42	1969	18	4.01	1978	.00	1975
Oct	3.28	2.98	3.92	1994	27	7.43	1975	.13	1988
Nov	7.79	7.23	4.20	1996	19	21.24	1973	1.55	1976
Dec	8.78	8.65	4.32	1964	22	21.93	1996	1.83	1976
Ann	49.13	48.41	4.32	Dec 1964	22	21.93	Dec 1996	.00+	Aug 1998

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	17.7	12.2	5.2	1.8
Feb	15.5	10.6	4.3	1.3
Mar	16.4	11.1	3.1	.7
Apr	12.8	7.4	1.8	.3
May	10.3	5.7	1.0	.2
Jun	7.2	3.9	.7	.1
Jul	3.3	1.3	.2	.1
Aug	3.5	1.8	.4	.0
Sep	6.5	3.7	1.0	@
Oct	10.4	6.1	2.3	.6
Nov	17.5	13.0	4.8	1.5
Dec	17.6	12.7	6.0	2.4
Ann	138.7	89.5	30.8	9.0

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	1.74	2.46	3.61	4.64	5.68	6.78	8.02	9.50	11.44	14.54	17.47
Feb	1.80	2.43	3.39	4.23	5.06	5.93	6.89	8.03	9.52	11.85	14.03
Mar	1.92	2.42	3.14	3.75	4.33	4.92	5.57	6.32	7.28	8.77	10.13
Apr	.84	1.14	1.61	2.03	2.44	2.87	3.35	3.91	4.66	5.82	6.92
May	.31	.49	.81	1.12	1.44	1.79	2.20	2.70	3.37	4.47	5.53
Jun	.28	.41	.62	.81	1.00	1.21	1.44	1.72	2.09	2.69	3.25
Jul	.00	.00	.06	.14	.22	.33	.45	.61	.84	1.22	1.61
Aug	.00	.00	.06	.15	.26	.40	.57	.80	1.13	1.70	2.28
Sep	.03	.13	.31	.52	.75	1.02	1.34	1.75	2.33	3.31	4.28
Oct	.47	.74	1.21	1.67	2.14	2.66	3.27	4.01	5.01	6.64	8.20
Nov	2.09	2.83	3.95	4.94	5.91	6.93	8.06	9.40	11.15	13.88	16.44
Dec	2.68	3.51	4.76	5.83	6.87	7.94	9.13	10.52	12.32	15.13	17.73
Ann	31.28	34.59	38.91	42.25	45.25	48.18	51.23	54.64	58.81	64.93	70.29

\+ 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: 1928-2001
(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	.8	.0	#	0	3.0	1993	8	7.0	1993	18	1971	14	2	1971	.6	.4	.1	.0	.0	.1	.0	.0	.0
Feb	1.6	.0	#	0	14.0	1990	15	22.0	1990	12+	1990	15	2+	1990	.5	.4	.3	.2	@	.8	.7	.6	.2
Mar	.2	.0	#	0	2.0	1985	26	2.1	1985	8	1971	1	1	1971	.2	.1	.0	.0	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1983	10	#+	1983	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.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	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	.3	.0	#	0	7.0	1977	22	7.0	1977	7	1977	22	#+	1993	.1	@	@	@	.0	@	@	@	.0
Dec	2.0	.0	#	0	8.5	1972	5	18.0	1972	13	1972	6	4	1972	1.0	.8	.2	.1	.0	1.1	.7	.5	.2
Ann	4.9	.0	N/A	N/A	14.0	Feb 1990	15	22.0	Feb 1990	18	Jan 1971	14	4	Dec 1972	2.4	1.7	.6	.3	@	2.0	1.4	1.1	.4

+ 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	6/06	5/31	5/27	5/23	5/19	5/16	5/12	5/08	5/02
32	5/21	5/13	5/07	5/02	4/28	4/23	4/18	4/12	4/04
28	4/19	4/07	3/29	3/22	3/15	3/08	2/28	2/20	2/07
24	3/04	2/21	2/14	2/08	2/01	1/26	1/20	1/12	12/30
20	2/20	2/08	1/30	1/21	1/12	1/01	12/12	0/00	0/00
16	2/13	1/31	1/20	1/09	12/27	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	9/08	9/15	9/20	9/24	9/28	10/02	10/06	10/11	10/18
32	10/01	10/08	10/13	10/18	10/22	10/26	10/30	11/04	11/12
28	10/25	11/03	11/08	11/14	11/18	11/23	11/28	12/04	12/12
24	11/09	11/20	11/27	12/04	12/10	12/17	12/24	1/01	1/14
20	11/29	12/13	12/24	1/03	1/13	1/27	0/00	0/00	0/00
16	12/11	12/26	1/07	1/20	2/07	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	159	150	143	137	131	126	120	113	103
32	209	198	190	183	177	170	163	155	144
28	294	278	267	257	248	238	229	217	201
24	365	342	329	320	311	302	293	283	269
20	>365	>365	>365	>365	>365	>365	341	321	301
16	>365	>365	>365	>365	>365	>365	>365	360	325

***** 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	800	637	589	453	304	160	58	61	134	374	633	815	5018
60	645	497	434	305	168	67	11	13	53	225	483	660	3561
57	552	413	343	222	105	32	2	4	23	148	396	567	2807
55	490	357	286	170	72	17	1	1	12	104	339	505	2354
50	341	226	156	73	18	2	0	0	1	33	210	356	1416
32	18	3	0	0	0	0	0	0	0	0	6	20	47

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	241	291	434	537	722	851	1042	1044	895	649	363	228	7297
55	0	0	7	17	81	178	330	332	217	40	6	0	1208
57	0	0	2	8	52	133	270	273	168	22	3	0	931
60	0	0	0	2	22	78	185	189	107	6	0	0	589
65	0	0	0	0	3	21	77	82	39	0	0	0	222
70	0	0	0	0	0	3	17	20	8	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	86	132	218	319	499	634	821	824	683	436	169	75	86	218	436	755	1254	1888	2709	3533	4216	4652	4821	4896
45	29	46	93	178	344	484	666	669	533	283	73	28	29	75	168	346	690	1174	1840	2509	3042	3325	3398	3426
50	0	7	26	79	199	334	511	514	384	150	20	0	0	7	33	112	311	645	1156	1670	2054	2204	2224	2224
55	0	0	0	27	93	192	357	359	240	58	1	0	0	0	0	27	120	312	669	1028	1268	1326	1327	1327
60	0	0	0	1	36	91	207	209	118	15	0	0	0	0	0	1	37	128	335	544	662	677	677	677
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	24	47	109	180	296	381	510	516	429	251	56	14	24	71	180	360	656	1037	1547	2063	2492	2743	2799	2813

(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