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: CORDOVA AP, AK **COOP ID: 502177**

Climate Division: AK 2 **NWS Call Sign: CDV** **Elevation: 38 Feet** **Lat: 60˚29N** **Lon: 145˚27W**

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 >= 90	Max >= 70	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	31.6	17.6	24.6	58	1961	21	39.5	1977	-30	1972	10	11.4	1996	1253	0	.0	.0	.1	14.0	24.8	5.6
Feb	34.8	19.6	27.2	58+	1995	5	40.0	1977	-23	1999	4	10.5	1979	1058	0	.0	.0	.1	9.6	21.9	4.3
Mar	39.0	23.1	31.1	59	1965	2	38.9	1981	-24	1956	3	21.4	1972	1054	0	.0	.0	1.0	3.7	24.6	1.3
Apr	45.6	29.7	37.7	67+	1989	30	41.5	1993	-2	1986	1	27.9	1972	821	0	.0	.0	7.6	.5	19.4	@
May	52.8	36.8	44.8	82	1969	24	50.6	1981	19	1972	2	40.3	1972	627	0	.0	.8	19.8	.0	6.7	.0
Jun	58.5	43.2	50.9	84+	1995	10	53.7	1980	29+	1955	6	47.3+	1985	425	0	.0	2.1	28.5	.0	.1	.0
Jul	61.8	47.2	54.5	89	1995	16	57.4	1989	33	1976	24	51.7	1973	326	0	.0	3.5	31.0	.0	.0	.0
Aug	61.8	45.9	53.9	86	1977	20	56.9	1977	29	1984	28	50.5	1973	346	0	.0	3.4	31.0	.0	.1	.0
Sep	56.1	40.0	48.1	74	1996	2	53.0	1995	20+	1972	22	42.6	1992	508	0	.0	.4	27.4	.0	4.9	.0
Oct	46.4	32.5	39.5	70	1954	1	43.6+	1980	-1	1975	31	34.0	1985	792	0	.0	.0	9.0	.4	14.3	@
Nov	36.8	23.3	30.1	55+	1962	3	40.6	1976	-10	1985	16	15.5	1985	1048	0	.0	.0	.6	7.2	22.6	1.4
Dec	33.1	20.2	26.7	54	1969	17	37.3	1986	-23	1964	14	11.7	1980	1189	0	.0	.0	.1	11.3	24.5	3.5
Ann	46.5	31.6	39.1	89	Jul 1995	16	57.4	Jul 1989	-30	Jan 1972	10	10.5	Feb 1979	9447	0	.0	10.2	156.2	46.7	163.9	16.1

\+ 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: 1949-2001

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

Issue Date: May 2005

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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	7.14	5.87	2.93	1986	3	19.62	1981	.94	1996
Feb	6.51	5.97	3.70	1964	5	12.56	1992	.64	1989
Mar	6.06	5.60	2.51	1990	28	16.42	1992	.93	1983
Apr	5.67	4.76	4.43	1971	12	12.17	1971	1.25	1979
May	6.24	5.25	2.85	1961	16	13.56	1971	1.82	1996
Jun	5.47	4.96	2.85	1989	23	12.40	1987	1.97	1996
Jul	5.61	5.02	4.62	1958	27	11.11	1981	1.71	1972
Aug	9.42	8.70	7.61	1981	7	32.52	1981	2.98	1987
Sep	14.30	13.49	6.20	1989	24	29.28	1989	5.64	1986
Oct	12.62	13.87	4.96	1965	10	21.35	1978	2.40	1985
Nov	7.60	6.83	4.63	1976	30	30.59	1976	.38	1985
Dec	9.62	9.42	4.80	1989	10	26.38	1989	2.18	1983
Ann	96.26	89.83	7.61	Aug 1981	7	32.52	Aug 1981	.38	Nov 1985

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	17.0	12.2	5.1	1.9
Feb	15.6	10.8	4.7	1.7
Mar	16.9	11.3	4.1	1.2
Apr	17.7	11.5	3.6	1.2
May	19.4	13.6	4.0	1.1
Jun	18.7	12.1	3.4	.8
Jul	19.5	12.3	3.3	.9
Aug	18.9	13.7	6.0	2.7
Sep	20.7	16.6	9.5	4.8
Oct	21.1	16.8	8.9	4.0
Nov	17.4	12.5	5.1	2.2
Dec	19.7	14.6	6.4	2.8
Ann	222.6	158.0	64.1	25.3

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	1.42	2.07	3.12	4.08	5.05	6.10	7.28	8.70	10.57	13.59	16.44
Feb	1.66	2.28	3.22	4.06	4.88	5.75	6.72	7.87	9.37	11.74	13.96
Mar	1.42	1.99	2.87	3.67	4.46	5.29	6.23	7.35	8.81	11.14	13.33
Apr	1.66	2.20	3.01	3.71	4.39	5.10	5.88	6.80	8.00	9.87	11.60
May	2.02	2.62	3.49	4.23	4.95	5.69	6.50	7.45	8.67	10.57	12.32
Jun	2.22	2.72	3.43	4.02	4.57	5.13	5.73	6.43	7.32	8.67	9.90
Jul	2.05	2.58	3.34	3.97	4.58	5.20	5.87	6.65	7.65	9.19	10.60
Aug	2.62	3.51	4.87	6.05	7.21	8.42	9.76	11.34	13.40	16.63	19.64
Sep	5.82	7.13	8.98	10.51	11.95	13.41	14.99	16.80	19.11	22.63	25.83
Oct	4.54	5.72	7.44	8.88	10.25	11.66	13.19	14.98	17.25	20.77	23.99
Nov	.89	1.47	2.54	3.60	4.73	5.99	7.46	9.29	11.77	15.85	19.83
Dec	2.70	3.62	5.00	6.20	7.38	8.61	9.97	11.58	13.67	16.94	19.99
Ann	62.40	68.72	76.95	83.28	88.97	94.51	100.28	106.70	114.56	126.08	136.14

\+ 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: 1949-2001
(3) Derived from 1971-2000 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	16.2	13.2	5	3	17.0	1993	16	58.9	1993	37	1980	16	22	1980	6.2	4.1	1.8	1.0	.2	17.8	13.3	9.7	4.3
Feb	15.5	13.1	4	1	17.0	1990	17	41.6	1990	27	1991	9	15	1991	5.8	4.8	2.0	1.0	.1	15.1	9.8	8.3	3.8
Mar	19.3	13.1	7	4	19.8	1999	14	52.3	1992	30	1979	2	23	1989	7.0	4.8	2.3	1.3	.3	19.9	15.9	13.4	8.0
Apr	7.8	4.0	3	1	16.9	1971	12	42.5	1971	28	1976	5	15	1985	3.7	2.5	.9	.4	.1	10.2	7.5	6.0	3.7
May	.4	.0	#	0	4.1	1971	7	7.1	1971	40	1972	1	18	1972	.2	.1	.1	.0	.0	1.4	1.1	.9	.7
Jun	#	.0	0	0	#	1971	2	.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
Oct	2.1	1.0	#	0	8.0	1984	30	16.3	1976	8	1984	30	1	1996	1.1	.9	.2	.1	.0	.9	.1	.1	.0
Nov	10.1	8.6	#	0	9.4	1992	28	26.2	1999	14	1975	12	4+	1999	4.8	3.3	1.4	.5	.0	8.3	3.8	1.3	.1
Dec	18.8	10.1	3	2	25.8	1991	27	78.2	1991	22	1991	28	12	1971	7.0	5.0	2.3	1.0	.2	15.7	9.8	6.6	2.9
Ann	90.2	63.1	N/A	N/A	25.8	Dec 1991	27	78.2	Dec 1991	40	May 1972	1	23	Mar 1989	35.8	25.5	11.0	5.3	.9	89.3	61.3	46.3	23.5

+ 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	7/06	6/30	6/25	6/21	6/17	6/13	6/09	6/04	5/29
32	6/01	5/28	5/26	5/23	5/21	5/19	5/17	5/14	5/11
28	5/21	5/16	5/11	5/08	5/05	5/01	4/28	4/24	4/18
24	5/04	4/30	4/26	4/23	4/20	4/18	4/15	4/11	4/07
20	4/20	4/15	4/11	4/07	4/04	4/01	3/28	3/24	3/18
16	4/12	4/05	3/31	3/27	3/23	3/19	3/15	3/10	3/03

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	8/16	8/21	8/24	8/27	8/30	9/02	9/05	9/08	9/13
32	9/02	9/06	9/10	9/13	9/15	9/18	9/21	9/24	9/29
28	9/14	9/19	9/22	9/25	9/28	9/30	10/03	10/06	10/11
24	9/27	10/04	10/08	10/12	10/15	10/19	10/23	10/27	11/02
20	10/10	10/15	10/19	10/23	10/26	10/29	11/01	11/05	11/10
16	10/19	10/26	10/31	11/04	11/08	11/12	11/16	11/21	11/28

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	99	90	84	79	74	69	63	57	48
32	132	127	123	119	116	113	110	106	100
28	169	161	155	150	145	141	136	130	121
24	202	194	187	182	177	172	167	161	152
20	231	222	215	209	204	199	193	187	177
16	263	252	243	236	229	223	216	207	196

***** 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	1253	1058	1054	821	627	425	326	346	508	792	1048	1189	9447
60	1099	918	899	671	472	275	174	195	358	637	898	1034	7630
57	1014	839	806	581	379	190	93	115	270	544	808	941	6580
55	956	786	744	521	319	138	55	75	214	482	755	879	5924
50	812	656	591	375	180	45	6	14	97	332	615	735	4458
32	373	267	147	32	1	0	0	0	0	26	215	281	1342

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	143	133	117	201	397	565	697	677	482	258	157	115	3942
55	14	8	0	0	2	13	39	38	6	0	7	0	127
57	9	5	0	0	0	5	16	17	2	0	0	0	54
60	2	0	0	0	0	0	3	4	0	0	0	0	9
65	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	0	1	0	31	163	335	459	438	254	75	11	0	0	1	1	32	195	530	989	1427	1681	1756	1767	1767
45	0	0	0	1	55	185	304	283	118	14	0	0	0	0	0	1	56	241	545	828	946	960	960	960
50	0	0	0	0	8	66	150	137	32	0	0	0	0	0	0	0	8	74	224	361	393	393	393	393
55	0	0	0	0	0	11	36	30	0	0	0	0	0	0	0	0	0	11	47	77	77	77	77	77
60	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	0	15	70	137	196	197	106	10	0	0	0	0	0	15	85	222	418	615	721	731	731	731

(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.
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 were calculated from a serially complete daily data set. A serial dataset was not available for precipitation,
To ensure that a station's data was adequate to estimate these statistics, the following criteria were used:
1. A station must have 80% of its data for the 1971-2000 time period.
2. Only months with at least 21 days are used.
3. There must be a least 21 months (meeting criteria 2.) in the sample.

g. Snowfall and snow depth statistics were derived daily values quality controlled to be consistent with 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 differences 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. Other inconsistencies may appear from comparing statistically modeled values such as degree days to observed temperatures.

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. 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