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: INTRICATE BAY, AK **COOP ID: 503933**

Climate Division: AK 6 **NWS Call Sign:** **Elevation: 170 Feet** **Lat: 59˚34N** **Lon: 154˚28W**

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	25.1	8.6	16.9	60	1999	23	36.6	1977	-43+	1997	5	-3.9	1971	1503	0	.0	.0	@	15.8	27.2	10.7
Feb	26.1	8.4	17.3	53	1986	13	34.2	2000	-50	1999	1	2.4	1979	1337	0	.0	.0	.1	14.8	25.0	10.9
Mar	33.4	14.3	23.9	54	1974	24	35.8	1984	-47	1971	8	.5	1972	1276	0	.0	.0	.3	9.8	26.9	7.2
Apr	42.2	23.9	33.1	61	1995	29	39.7	1989	-20+	1985	11	20.8	1972	959	0	.0	.0	4.8	3.2	23.3	1.4
May	53.2	33.6	43.4	79+	1997	25	48.0	1981	3	1971	8	36.8	1971	668	0	.0	.7	21.4	@	12.8	.0
Jun	61.6	41.5	51.6	82	1997	29	55.3	1997	26+	1994	3	46.7	1972	403	0	.0	3.8	28.9	.0	2.6	.0
Jul	65.7	46.9	56.3	84	1972	6	60.8	1997	25	1965	23	53.0	1971	270	0	.0	7.8	31.0	.0	.2	.0
Aug	63.5	46.0	54.8	83	1968	7	57.8	1978	22	2001	24	51.6	1980	318	0	.0	4.4	30.9	.0	.9	.0
Sep	55.4	40.0	47.7	71+	1979	12	52.8	1995	10	1992	26	39.2	1992	519	0	.0	.2	26.7	.0	6.3	.0
Oct	42.5	28.6	35.6	62	1986	1	41.8	1979	-5+	1975	31	30.0	1996	913	0	.0	.0	5.1	3.2	20.2	.2
Nov	33.2	19.4	26.3	53+	1986	11	35.0	2000	-19	1963	24	16.7	1975	1162	0	.0	.0	.3	11.8	25.7	2.7
Dec	27.6	12.7	20.2	49+	2000	13	35.1	2000	-39	1964	12	7.5	1996	1390	0	.0	.0	.0	15.5	27.7	8.5
Ann	44.1	27.0	35.6	84	Jul 1972	6	60.8	Jul 1997	-50	Feb 1999	1	-3.9	Jan 1971	10718	0	.0	16.9	149.5	74.1	198.8	41.6

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1959-2001

(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	2.87	1.98	2.34	1960	18	12.17	1981	.39	1996
Feb	2.46	2.37	1.73	1988	26	7.43	1980	.25	1982
Mar	2.09	1.55	2.80	1981	1	11.49	1981	.00	1986
Apr	2.37	1.95	2.03	1998	3	7.06	1988	.00	1986
May	2.52	2.27	1.68	1977	18	6.59	1971	.20	1992
Jun	1.80	1.58	1.34	1972	2	4.06	1987	.40	1993
Jul	2.27	2.03	1.18	1965	8	4.78	1998	.44	1989
Aug	4.02	3.72	1.87	1959	24	8.18	1996	1.71	1987
Sep	4.47	4.12	2.14	1976	17	7.75	1990	2.01	1984
Oct	3.72	3.26	2.80	1969	13	10.02	1980	.10	1991
Nov	3.39	2.79	3.08	1983	29	12.03	1983	.43	1995
Dec	3.34	3.20	3.76	2001	26	8.45	1986	.09	1980
Ann	35.32	33.96	3.76	Dec 2001	26	12.17	Jan 1981	.00+	Apr 1986

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.9	6.7	1.6	.4
Feb	8.5	5.9	1.5	.3
Mar	8.3	5.2	1.1	.3
Apr	10.2	6.2	1.2	.2
May	10.8	6.9	1.3	.2
Jun	9.7	5.4	.9	.1
Jul	10.6	6.5	1.4	.0
Aug	14.0	9.4	2.6	.7
Sep	14.6	10.3	2.9	.6
Oct	12.5	8.4	2.2	.6
Nov	11.7	7.3	2.0	.6
Dec	13.1	8.4	1.7	.4
Ann	133.9	86.6	20.4	4.4

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	.38	.61	1.02	1.42	1.84	2.30	2.84	3.50	4.40	5.87	7.30
Feb	.34	.55	.90	1.24	1.60	1.99	2.44	3.00	3.76	4.99	6.17
Mar	.10	.28	.59	.90	1.22	1.59	2.03	2.57	3.31	4.54	5.73
Apr	.28	.57	.97	1.31	1.65	2.02	2.43	2.92	3.58	4.63	5.62
May	.44	.67	1.03	1.38	1.73	2.11	2.55	3.08	3.78	4.91	6.00
Jun	.49	.66	.92	1.15	1.37	1.61	1.87	2.17	2.57	3.20	3.78
Jul	.68	.90	1.22	1.50	1.77	2.05	2.36	2.73	3.20	3.93	4.62
Aug	1.55	1.93	2.46	2.90	3.32	3.75	4.21	4.74	5.42	6.46	7.42
Sep	2.30	2.66	3.17	3.56	3.93	4.29	4.68	5.12	5.67	6.49	7.22
Oct	.81	1.16	1.70	2.19	2.69	3.21	3.81	4.52	5.45	6.94	8.34
Nov	.62	.92	1.42	1.88	2.35	2.86	3.44	4.14	5.07	6.56	7.99
Dec	.52	.80	1.29	1.75	2.22	2.75	3.35	4.08	5.06	6.66	8.19
Ann	23.56	25.78	28.65	30.85	32.83	34.74	36.73	38.95	41.64	45.59	49.02

\+ 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: 1959-2001
(3) Derived from 1971-2000 daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	12.0	8.0	7	5
Feb	11.0	7.0	6	6
Mar	8.4	8.4	6	4
Apr	5.6	2.9	3	1
May	1.5	.0	#	0
Jun	#	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	3.4	1.6	#	0
Nov	10.0	9.0	2	2
Dec	16.6	12.6	7	8
Ann	68.5	49.5	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	15.0	1986	6	43.0	1986	45	2000	29	32	2000
Feb	17.0	1980	2	52.8	1971	48	2000	1	25	1972
Mar	11.0	1996	22	26.5	1975	41	1971	14	34	1971
Apr	9.0	1982	10	27.6	1976	42	1972	18	35	1972
May	8.0	1971	14	22.5	1971	10	1971	14	2	1971
Jun	#	1971	1	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.2	1996	23	.3	1996	0	0	0	0	0
Oct	10.0	1998	24	12.5	1982	12+	2000	28	2+	1999
Nov	8.0+	1986	21	35.8	1994	24	1989	30	13	1994
Dec	12.0	1997	19	46.9	1997	40	1994	29	27	1994
Ann	17.0	Feb 1980	2	52.8	Feb 1971	48	Feb 2000	1	35	Apr 1972

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	5.0	3.9	1.6	.7	.1
Feb	4.0	3.2	1.6	.7	.1
Mar	3.7	2.9	1.2	.4	.1
Apr	2.6	2.1	.7	.3	.0
May	.6	.6	.2	.1	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	.0	.0	.0	.0
Oct	1.7	1.1	.4	.1	@
Nov	5.4	3.4	1.2	.4	.0
Dec	7.3	5.3	2.4	1.0	.1
Ann	30.4	22.5	9.3	3.7	.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	24.0	20.0	17.0	10.3
Feb	20.4	16.1	14.2	6.7
Mar	20.7	16.9	13.6	6.3
Apr	9.7	7.8	6.3	3.4
May	1.1	.7	.4	@
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	2.5	1.4	.6	.3
Nov	13.4	8.7	5.7	2.1
Dec	24.1	19.8	16.7	11.3
Ann	115.9	91.4	74.5	40.4

+ 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	7/22	7/15	7/10	7/05	7/01	6/27	6/22	6/17	6/10
32	7/06	6/29	6/25	6/21	6/17	6/13	6/09	6/05	5/29
28	6/10	6/05	6/02	5/30	5/27	5/25	5/22	5/18	5/13
24	5/22	5/17	5/13	5/09	5/06	5/03	4/30	4/26	4/21
20	5/13	5/07	5/03	4/29	4/25	4/22	4/18	4/14	4/08
16	5/03	4/28	4/24	4/21	4/18	4/16	4/13	4/09	4/04

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	8/04	8/08	8/11	8/14	8/17	8/19	8/22	8/25	8/29
32	8/14	8/20	8/24	8/27	8/31	9/03	9/07	9/11	9/17
28	9/03	9/08	9/11	9/14	9/17	9/20	9/23	9/26	10/01
24	9/13	9/18	9/22	9/25	9/28	10/01	10/04	10/08	10/13
20	9/23	9/28	10/02	10/05	10/08	10/11	10/15	10/18	10/24
16	10/05	10/09	10/13	10/15	10/18	10/20	10/23	10/26	10/31

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	73	63	57	51	46	41	35	28	19
32	102	92	85	79	74	68	63	56	46
28	132	125	120	116	112	108	104	99	92
24	163	157	152	148	144	140	136	131	124
20	190	181	175	170	165	160	155	149	141
16	201	194	190	186	182	178	174	169	163

***** 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	1503	1337	1276	959	668	403	270	318	519	913	1162	1390	10718
60	1359	1207	1129	809	513	255	123	169	371	758	1012	1239	8944
57	1271	1128	1043	719	421	174	59	94	287	665	922	1151	7934
55	1213	1075	985	663	363	126	29	58	234	603	862	1092	7303
50	1072	945	841	524	226	43	2	10	125	450	712	948	5898
32	626	530	409	148	9	0	0	0	1	57	246	485	2511

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	156	117	156	179	364	587	753	705	472	168	74	118	3849
55	31	19	19	5	4	23	69	50	15	0	0	12	247
57	27	16	15	1	1	10	36	24	8	0	0	9	147
60	21	10	8	0	0	2	8	5	2	0	0	4	60
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	0	1	10	137	352	507	457	243	37	4	0	0	0	1	11	148	500	1007	1464	1707	1744	1748	1748
45	0	0	0	0	46	206	352	302	114	6	0	0	0	0	0	0	46	252	604	906	1020	1026	1026	1026
50	0	0	0	0	7	83	199	155	32	0	0	0	0	0	0	0	7	90	289	444	476	476	476	476
55	0	0	0	0	0	17	70	48	0	0	0	0	0	0	0	0	0	17	87	135	135	135	135	135
60	0	0	0	0	0	0	6	2	0	0	0	0	0	0	0	0	0	0	6	8	8	8	8	8
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	0	2	77	184	259	229	96	6	0	0	0	0	0	2	79	263	522	751	847	853	853	853

(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:
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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 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