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: ISLAND PARK, ID **COOP ID: 104598**

Climate Division: ID10 **NWS Call Sign:** **Elevation: 6,290 Feet** **Lat: 44˚25N** **Lon: 111˚22W**

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	26.5	5.3	15.9	49+	1981	22	22.8	1998	-46+	1985	31	5.8	1979	1521	0	.0	.0	.0	23.6	30.9	13.2
Feb	31.2	7.2	19.2	55	1963	6	26.2	2000	-54	1982	5	7.5	1985	1283	0	.0	.0	.4	14.5	28.2	9.6
Mar	38.0	14.8	26.4	60+	1978	29	34.5	1986	-36+	1966	4	17.3	1976	1197	0	.0	.0	2.5	6.0	30.7	5.5
Apr	47.9	23.3	35.6	76	1985	30	41.1	1990	-18	1975	2	28.3	1975	881	0	.0	.0	12.1	.5	27.4	.8
May	58.7	32.1	45.4	84	1986	31	51.0	1992	7	1967	2	40.0	1975	608	0	.0	.0	25.1	@	17.3	.0
Jun	69.8	38.0	53.9	90+	1988	26	60.4	1988	20	1983	19	48.4	1998	337	5	.0	.1	29.3	.0	5.1	.0
Jul	78.8	42.4	60.6	94+	2000	31	64.6	1989	25+	1986	6	52.0	1993	165	30	.0	.5	31.0	.0	1.3	.0
Aug	79.3	40.5	59.9	96+	2000	9	64.8	1971	20	1992	26	55.4	1980	180	22	.0	.5	31.0	.0	2.8	.0
Sep	69.7	32.6	51.2	91	1950	3	58.3	1998	8	1983	20	46.4	1971	419	3	.0	.0	28.3	.0	15.3	.0
Oct	55.7	25.3	40.5	80+	2001	1	47.0	1988	-6	1971	29	35.9	1982	760	0	.0	.0	20.7	.9	27.8	.1
Nov	36.7	15.5	26.1	69	1940	19	34.1	1999	-34	1955	16	18.4	1994	1166	0	.0	.0	3.2	10.9	29.5	4.3
Dec	27.0	5.8	16.4	56	1939	5	22.2	1980	-51	1964	17	5.6	1990	1507	0	.0	.0	@	23.7	31.0	12.7
Ann	51.6	23.6	37.6	96+	Aug 2000	9	64.8	Aug 1971	-54	Feb 1982	5	5.6	Dec 1990	10024	60	.0	1.1	183.6	80.1	247.3	46.2

\+ 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: 1937-2001

(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	3.38	3.40	3.12	1982	4	6.93	1997	.47	1992
Feb	2.80	2.67	2.41	1982	15	6.12	1983	.33	1991
Mar	2.51	2.33	1.52	1974	2	8.40	1974	.31	1994
Apr	1.91	1.81	1.46	1982	12	4.16	1982	.54	1987
May	2.58	2.66	1.53	1967	10	4.90	1991	.63	1992
Jun	2.32	2.24	2.11	1970	10	6.20	1998	.48	1988
Jul	1.60	1.39	1.24	2001	9	3.79	1983	.20	1988
Aug	1.50	1.59	1.40	1951	4	3.59	1977	.28	1992
Sep	1.59	1.32	1.56	1945	22	4.12	1972	.00	1974
Oct	1.69	1.79	1.86	1938	15	4.02	1983	.03	1988
Nov	2.44	2.02	1.97	1949	10	6.89	1973	.05	1976
Dec	3.33	3.17	1.47	1952	7	8.31	1996	.08	1986
Ann	27.65	27.43	3.12	Jan 1982	4	8.40	Mar 1974	.00	Sep 1974

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	14.6	9.5	1.3	.3
Feb	10.7	6.9	1.5	.3
Mar	10.2	6.4	1.2	.3
Apr	8.1	5.2	1.0	.1
May	10.6	6.3	1.2	.2
Jun	11.1	6.3	1.2	.1
Jul	8.4	4.6	.6	@
Aug	8.4	4.4	.6	.1
Sep	6.9	4.1	1.0	.2
Oct	7.1	4.3	.9	.1
Nov	11.1	6.9	1.1	.1
Dec	12.6	8.2	1.9	.1
Ann	119.8	73.1	13.5	1.9

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	.88	1.20	1.69	2.12	2.54	2.99	3.49	4.08	4.85	6.07	7.20
Feb	.77	1.03	1.44	1.79	2.13	2.50	2.90	3.37	3.98	4.95	5.85
Mar	.62	.86	1.23	1.55	1.87	2.21	2.59	3.04	3.63	4.56	5.43
Apr	.60	.78	1.05	1.28	1.51	1.74	1.99	2.29	2.68	3.28	3.83
May	.75	1.00	1.36	1.68	1.99	2.32	2.68	3.10	3.64	4.50	5.29
Jun	.57	.79	1.12	1.42	1.72	2.04	2.39	2.81	3.36	4.22	5.04
Jul	.32	.46	.70	.91	1.13	1.36	1.63	1.94	2.36	3.04	3.68
Aug	.34	.48	.70	.90	1.09	1.30	1.54	1.82	2.19	2.78	3.34
Sep	.06	.19	.42	.66	.91	1.19	1.53	1.95	2.53	3.50	4.45
Oct	.19	.32	.55	.79	1.04	1.32	1.65	2.06	2.61	3.53	4.42
Nov	.35	.56	.91	1.25	1.60	1.99	2.44	2.98	3.72	4.92	6.08
Dec	.50	.78	1.26	1.73	2.20	2.73	3.33	4.07	5.06	6.68	8.23
Ann	18.09	19.88	22.21	23.99	25.60	27.16	28.79	30.60	32.81	36.04	38.86

\+ 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: 1937-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

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
Jan	43.5	46.5	40	37	24.0	1982	23	72.0	1995	72	1971	17	58	1971
Feb	34.3	32.5	48	51	12.0	1975	1	75.5	1975	72	1976	18	65	1997
Mar	31.2	30.0	48	47	24.0	1979	2	73.5	1974	89	1997	3	68	1971
Apr	13.4	12.0	30	31	11.0	1997	1	48.5	1975	82	1975	7	65	1975
May	3.4	.5	4	2	8.0	1981	7	17.0	1975	53	1975	1	31	1975
Jun	.3	.0	#	0	2.0	1975	25	2.0+	1992	2	1975	25	#	1975
Jul	.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
Sep	.4	.0	#	0	5.0	1978	18	6.0	1978	6	1978	19	#+	1978
Oct	6.6	2.8	1	#	12.0	1996	24	25.1	1996	18	1996	26	3+	1996
Nov	25.3	23.0	8	7	17.0	1995	28	68.0	1973	34+	1994	30	17	1984
Dec	31.3	32.5	25	24	15.0	1992	29	52.0	1974	58	1982	23	45	1994
Ann	189.7	179.8	N/A	N/A	24.0+	Jan 1982	23	75.5	Feb 1975	89	Mar 1997	3	68	Mar 1971

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	13.8	11.7	6.2	3.0	.6
Feb	10.0	8.7	4.8	2.7	.3
Mar	8.5	7.3	3.4	1.9	.5
Apr	5.4	4.6	1.6	.8	@
May	1.6	1.2	.4	.1	.0
Jun	.2	.1	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.2	.2	@	@	.0
Oct	2.6	2.0	.7	.6	@
Nov	8.7	7.6	3.4	1.5	.2
Dec	11.2	9.4	5.6	3.0	.9
Ann	62.2	52.8	26.1	13.6	2.5

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-9.9	-9.9
May	5.5	4.7	4.4	3.8
Jun	.1	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.1	.1	.1	.0
Oct	3.0	1.6	1.3	.6
Nov	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9

+ 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	7/28	7/24	7/21	7/18	7/15	7/13	7/10	7/06	7/02
32	7/22	7/15	7/10	7/06	7/02	6/28	6/24	6/19	6/12
28	6/30	6/23	6/18	6/14	6/10	6/06	6/02	5/28	5/21
24	6/07	5/31	5/26	5/21	5/17	5/13	5/09	5/03	4/26
20	5/20	5/14	5/09	5/06	5/02	4/29	4/25	4/21	4/15
16	5/08	5/03	4/30	4/27	4/24	4/21	4/18	4/14	4/09

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	7/31	8/05	8/09	8/12	8/14	8/17	8/20	8/24	8/28
32	8/06	8/12	8/16	8/20	8/23	8/26	8/30	9/03	9/09
28	8/18	8/24	8/29	9/02	9/05	9/09	9/12	9/17	9/23
24	9/08	9/13	9/17	9/20	9/22	9/25	9/28	10/02	10/07
20	9/14	9/20	9/24	9/28	10/01	10/04	10/08	10/12	10/18
16	9/23	9/30	10/05	10/09	10/13	10/17	10/21	10/26	11/02

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	47	41	37	33	29	26	22	18	12
32	75	67	61	56	51	47	41	36	27
28	113	104	97	91	86	81	75	69	60
24	153	144	138	133	127	122	117	111	102
20	175	166	161	155	151	146	141	135	127
16	196	187	182	176	172	167	162	156	148

***** 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	1521	1283	1197	881	608	337	165	180	419	760	1166	1507	10024
60	1366	1143	1042	731	454	206	75	82	281	605	1016	1352	8353
57	1273	1059	949	641	365	141	38	43	208	512	926	1259	7414
55	1211	1003	887	581	308	106	22	25	166	451	866	1197	6823
50	1056	863	732	435	183	41	4	5	82	304	716	1042	5463
32	506	375	230	60	3	0	0	0	0	18	241	496	1929

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	7	16	56	169	419	658	888	865	574	281	65	11	4009
55	0	0	0	0	10	73	196	178	50	1	0	0	508
57	0	0	0	0	5	49	150	133	33	0	0	0	370
60	0	0	0	0	1	23	95	80	15	0	0	0	214
65	0	0	0	0	0	5	30	22	3	0	0	0	60
70	0	0	0	0	0	0	7	3	0	0	0	0	10

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	0	43	208	422	650	626	339	95	2	0	0	0	0	43	251	673	1323	1949	2288	2383	2385	2385
45	0	0	0	15	104	278	495	471	212	32	0	0	0	0	0	15	119	397	892	1363	1575	1607	1607	1607
50	0	0	0	1	39	152	343	321	104	6	0	0	0	0	0	1	40	192	535	856	960	966	966	966
55	0	0	0	0	7	63	196	178	35	0	0	0	0	0	0	0	7	70	266	444	479	479	479	479
60	0	0	0	0	0	13	76	67	8	0	0	0	0	0	0	0	0	13	89	156	164	164	164	164
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	0	52	163	300	445	452	296	122	7	0	0	0	0	52	215	515	960	1412	1708	1830	1837	1837

(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 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