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: DIXIE, ID **COOP ID: 102575**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 5,620 Feet** **Lat: 45˚33N** **Lon: 115˚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 >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	30.3	4.1	17.2	51	1994	24	24.2	1981	-42+	1979	2	5.7	1979	1482	0	.0	.0	.1	17.7	30.9	11.9
Feb	34.6	6.7	20.7	59	1996	14	28.5	1995	-42	1956	16	12.5	1989	1242	0	.0	.0	1.3	10.2	28.2	8.6
Mar	39.4	14.0	26.7	64+	1986	28	34.9	1986	-36	1955	5	19.3	1971	1186	0	.0	.0	4.6	5.0	31.0	3.1
Apr	46.1	21.2	33.7	78	1987	28	39.0	1987	-9	1975	2	26.4	1975	940	0	.0	.0	10.6	1.2	29.3	.4
May	55.8	29.1	42.5	86	1986	31	47.6	1987	4	1972	1	36.8	1975	700	0	.0	.0	21.4	.1	23.9	.0
Jun	65.4	35.1	50.3	88+	1977	7	56.2	1986	19+	1985	17	46.5	1975	443	0	.0	@	27.6	.0	10.5	.0
Jul	74.9	37.7	56.3	96	1960	19	61.5	1975	23	1971	7	48.8	1993	277	8	@	1.5	30.8	.0	4.7	.0
Aug	75.5	35.9	55.7	99	1961	4	59.6	1971	19+	1992	25	51.6	1980	294	6	.0	1.6	30.8	.0	8.1	.0
Sep	65.9	28.8	47.4	93	1955	5	52.8	1990	9	1965	17	42.5	1971	530	0	.0	@	26.7	.1	23.1	.0
Oct	53.4	22.6	38.0	80+	1992	2	45.2	1988	-13+	1971	30	30.7	1984	837	0	.0	.0	18.5	.8	29.8	.2
Nov	37.6	13.7	25.7	64+	1999	15	32.6	1999	-35	1955	15	19.6	1985	1180	0	.0	.0	2.9	9.4	29.4	3.8
Dec	30.6	4.5	17.6	52	1993	11	25.5	1980	-49	1990	22	7.0	1990	1471	0	.0	.0	.1	17.5	31.0	12.2
Ann	50.8	21.1	36.0	99	Aug 1961	4	61.5	Jul 1975	-49	Dec 1990	22	5.7	Jan 1979	10582	14	@	3.1	175.4	62.0	279.9	40.2

\+ 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: 1952-2001

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

Issue Date: February 2004

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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	3.34	2.90	1.41+	1982	17	8.17	1971	.67	1981
Feb	2.68	2.72	1.50	1982	22	5.45	1972	.41	1991
Mar	2.45	2.33	1.27	1964	21	6.67	1974	.71	1992
Apr	2.11	1.88	1.24	1954	5	4.18	1975	.84	1977
May	2.26	2.21	1.09	1957	13	5.12	1996	.00	1982
Jun	2.19	2.13	1.63	1969	10	5.33	1981	.29	1996
Jul	1.33	1.28	1.01	1964	30	2.72	1983	.07	1991
Aug	1.23	1.01	1.43	1995	16	2.94	1975	.00	2000
Sep	1.33	1.39	1.40	1970	8	3.75	1977	.00+	1990
Oct	1.51	1.12	1.37	1962	10	5.96	1975	.00	1987
Nov	3.19	3.18	1.50	1996	19	9.60	1995	.68	1976
Dec	3.58	3.45	2.82	1997	31	7.34	1996	.28	1986
Ann	27.20	27.00	2.82	Dec 1997	31	9.60	Nov 1995	.00+	Aug 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	15.5	9.9	1.7	.2
Feb	12.4	8.2	1.2	.2
Mar	13.7	8.5	.8	@
Apr	11.3	7.2	.7	@
May	11.6	7.4	.8	.1
Jun	10.0	6.2	.9	.2
Jul	6.9	4.2	.7	.1
Aug	7.3	3.6	.6	.1
Sep	5.9	3.5	.5	.0
Oct	7.6	4.6	.8	.2
Nov	14.9	10.0	1.4	.2
Dec	15.7	10.9	1.5	.3
Ann	132.8	84.2	11.6	1.6

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	.74	1.05	1.54	1.98	2.42	2.89	3.42	4.06	4.89	6.22	7.48
Feb	.57	.82	1.21	1.57	1.93	2.31	2.74	3.25	3.93	5.01	6.03
Mar	.74	.97	1.32	1.62	1.91	2.22	2.55	2.94	3.45	4.25	4.98
Apr	.91	1.10	1.36	1.58	1.79	1.99	2.21	2.47	2.79	3.28	3.72
May	.57	.89	1.26	1.55	1.83	2.10	2.40	2.75	3.19	3.87	4.50
Jun	.60	.81	1.12	1.40	1.67	1.95	2.26	2.63	3.12	3.87	4.58
Jul	.21	.33	.52	.70	.89	1.10	1.34	1.63	2.01	2.64	3.24
Aug	.08	.20	.40	.58	.77	.98	1.22	1.51	1.92	2.58	3.21
Sep	.00	.00	.30	.53	.76	1.02	1.31	1.68	2.16	2.97	3.76
Oct	.09	.24	.48	.70	.93	1.19	1.49	1.86	2.36	3.18	3.98
Nov	.86	1.16	1.62	2.02	2.42	2.83	3.30	3.84	4.56	5.67	6.71
Dec	.85	1.18	1.71	2.17	2.64	3.13	3.68	4.34	5.20	6.56	7.84
Ann	16.14	18.14	20.77	22.82	24.68	26.51	28.42	30.57	33.22	37.13	40.58

\+ 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: 1952-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	39.2	31.5	38	39
Feb	31.7	31.5	44	46
Mar	27.4	25.0	38	36
Apr	15.8	16.5	23	22
May	6.8	6.5	4	1
Jun	.7	.0	#	0
Jul	.0	.0	0	0
Aug	#	.0	0	0
Sep	.5	.0	#	0
Oct	5.6	2.8	#	#
Nov	30.8	30.6	7	7
Dec	39.3	38.0	23	25
Ann	197.8	182.4	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	24.0	1989	10	90.5	1971	83	1989	10	63	1989
Feb	19.0	1994	24	64.0	1972	81	1999	24	74	1999
Mar	12.0	1974	6	66.5	1977	78	1972	3	61+	1997
Apr	9.0	1971	24	34.5	1975	59	1982	15	49	1975
May	9.0	1989	18	19.0	1975	48	1975	6	29	1975
Jun	3.5	1974	7	6.0	1980	6	1975	1	#+	2000
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	#	1971	23	#	1971	0	0	0	0	0
Sep	2.0	1977	22	3.0	1972	4	1999	27	#+	2000
Oct	9.0	1975	23	28.5	1975	16	1975	28	4	1975
Nov	14.0	1995	27	63.5	1973	30	1994	30	14	1973
Dec	16.0	1995	31	71.5	1978	56+	1998	31	41	1977
Ann	24.0	Jan 1989	10	90.5	Jan 1971	83	Jan 1989	10	74	Feb 1999

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	14.0	12.0	5.4	2.4	.4
Feb	10.7	9.0	3.8	1.6	.3
Mar	11.3	9.9	3.1	1.1	.1
Apr	7.5	6.2	2.2	.5	.0
May	2.7	2.2	.8	.3	.0
Jun	.4	.4	.1	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.4	.3	.0	.0	.0
Oct	2.2	1.8	.7	.2	.0
Nov	12.3	10.1	4.4	1.6	.2
Dec	14.0	12.2	5.3	2.3	.4
Ann	75.5	64.1	25.8	10.0	1.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	30.9	30.9	30.9	30.9
Feb	27.8	27.8	27.8	27.8
Mar	30.6	30.6	30.6	30.6
Apr	27.2	26.8	26.0	22.9
May	9.8	8.0	6.9	4.5
Jun	.4	.1	@	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.3	.0	.0	.0
Oct	3.4	1.8	1.1	.4
Nov	24.3	19.6	16.7	8.9
Dec	30.4	29.8	29.4	25.9
Ann	185.1	175.4	169.4	151.9

+ 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	8/04	8/01	7/30	7/29	7/27	7/26	7/24	7/23	7/20
32	8/03	7/28	7/23	7/19	7/16	7/12	7/08	7/04	6/27
28	7/23	7/15	7/09	7/05	6/30	6/25	6/21	6/15	6/07
24	6/26	6/18	6/12	6/07	6/02	5/29	5/24	5/18	5/10
20	5/31	5/23	5/18	5/14	5/09	5/05	5/01	4/25	4/18
16	5/11	5/06	5/02	4/29	4/26	4/23	4/20	4/16	4/10

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	7/31	8/01	8/02	8/03	8/04	8/04	8/05	8/07
32	7/31	8/03	8/06	8/09	8/11	8/13	8/16	8/19	8/23
28	8/05	8/12	8/16	8/20	8/23	8/27	8/30	9/04	9/10
24	8/31	9/04	9/08	9/10	9/13	9/15	9/18	9/21	9/26
20	9/07	9/12	9/16	9/19	9/22	9/26	9/29	10/03	10/08
16	9/23	9/29	10/03	10/07	10/10	10/13	10/17	10/21	10/27

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	14	11	9	7	6	4	2	0	0
32	51	42	36	31	26	21	15	9	0
28	85	74	66	60	53	47	40	32	22
24	129	120	113	107	102	96	90	84	74
20	164	154	147	141	135	130	124	117	107
16	191	183	176	171	166	162	156	150	142

***** 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	1482	1242	1186	940	700	443	277	294	530	837	1180	1471	10582
60	1327	1102	1031	790	545	298	150	163	383	682	1030	1316	8817
57	1234	1018	938	700	452	219	94	104	299	589	940	1223	7810
55	1172	962	876	640	393	171	64	72	247	527	880	1161	7165
50	1017	822	721	490	252	79	17	20	136	375	730	1006	5665
32	467	335	214	75	8	0	0	0	0	27	230	462	1818

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	8	16	50	125	331	547	754	735	460	213	39	14	3292
55	0	0	0	0	3	28	105	94	17	0	0	0	247
57	0	0	0	0	1	16	74	64	9	0	0	0	164
60	0	0	0	0	0	5	36	30	3	0	0	0	74
65	0	0	0	0	0	0	8	6	0	0	0	0	14
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	0	29	142	330	522	518	235	66	0	0	0	0	0	29	171	501	1023	1541	1776	1842	1842	1842
45	0	0	0	4	62	200	371	366	124	15	0	0	0	0	0	4	66	266	637	1003	1127	1142	1142	1142
50	0	0	0	0	25	101	230	225	49	1	0	0	0	0	0	0	25	126	356	581	630	631	631	631
55	0	0	0	0	3	38	111	106	10	0	0	0	0	0	0	0	3	41	152	258	268	268	268	268
60	0	0	0	0	0	7	36	37	0	0	0	0	0	0	0	0	0	7	43	80	80	80	80	80
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	10	48	132	255	401	413	240	108	6	0	0	1	11	59	191	446	847	1260	1500	1608	1614	1614

(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 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