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: DILLON, SC **COOP ID: 382386**

Climate Division: SC 4 **NWS Call Sign:** **Elevation: 115 Feet** **Lat: 34˚25N** **Lon: 79˚23W**

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	52.7	31.6	42.2	81	1950	26	54.5	1974	-1	1985	21	31.1	1977	712	0	.0	.0	20.1	.6	16.9	.1
Feb	56.7	33.4	45.1	83+	1997	28	53.0	1990	5+	1973	13	36.2	1978	559	0	.0	.0	20.5	.4	13.7	.0
Mar	64.7	39.7	52.2	91	1985	30	59.6	1997	11	1980	3	46.4	1971	402	5	.0	.1	28.6	.1	7.0	.0
Apr	73.1	47.3	60.2	94+	1981	29	64.6+	1999	24	1964	1	55.0	1983	178	33	.0	.9	29.8	.0	1.3	.0
May	80.0	56.6	68.3	97+	1964	29	73.5	1991	30	1963	2	64.1	1972	43	147	.0	4.2	31.0	.0	.0	.0
Jun	86.0	65.1	75.6	107	1954	28	80.2	1998	42	1976	6	69.6	1972	3	320	.3	13.0	30.0	.0	.0	.0
Jul	89.2	69.7	79.5	104+	1983	23	84.5	1993	49	1963	11	76.2	1974	0	448	1.4	20.3	31.0	.0	.0	.0
Aug	87.5	68.1	77.8	106	1983	22	82.0	1999	48	1968	31	74.1	1981	0	396	.6	16.0	31.0	.0	.0	.0
Sep	82.6	62.2	72.4	101+	1983	12	77.0	1980	36+	1950	26	68.0	1984	9	229	.2	7.0	30.0	.0	.0	.0
Oct	73.5	49.0	61.3	100	1954	6	66.3	1990	18	1962	27	55.2	1976	178	62	.0	.5	31.0	.0	1.0	.0
Nov	65.0	40.5	52.8	88	1961	5	62.3	1985	12	1970	25	44.7	1976	380	12	.0	.0	28.6	.0	8.0	.0
Dec	55.7	33.8	44.8	82	1998	9	53.1	1971	2	1989	25	36.2	1989	627	0	.0	.0	22.9	.3	14.2	.0
Ann	72.2	49.8	61.0	107	Jun 1954	28	84.5	Jul 1993	-1	Jan 1985	21	31.1	Jan 1977	3091	1652	2.5	62.0	334.5	1.4	62.1	.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: 1948-2001

(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	4.16	4.25	3.30	1955	11	6.78	1999	.81	1981
Feb	3.29	2.70	2.95	1998	17	8.06	1998	1.00	1978
Mar	4.41	3.98	4.82	1983	18	11.82	1983	1.10	1985
Apr	3.19	3.27	2.98	1978	26	7.07	1978	.13	1976
May	3.36	3.31	2.54	1966	27	5.39	1972	.98	1997
Jun	4.47	4.47	5.88	1967	23	8.64	1995	.18	1990
Jul	5.44	4.61	3.62	1981	30	10.90	1981	.80	1992
Aug	5.27	4.68	3.78	1974	6	14.89	1974	1.57	1997
Sep	4.13	3.24	7.65	1979	5	11.50	1999	.05	1985
Oct	2.99	2.54	4.48	1968	18	10.58	1971	.00	2000
Nov	2.80	2.46	3.19	1979	26	7.76	1985	.71	1984
Dec	3.54	3.03	3.50	1994	23	7.76	1973	.20	1988
Ann	47.05	46.45	7.65	Sep 1979	5	14.89	Aug 1974	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	7.7	3.0	1.0
Feb	8.3	6.1	2.5	.8
Mar	9.6	7.1	2.9	1.2
Apr	7.4	5.4	1.9	.9
May	9.6	6.8	2.4	.7
Jun	8.9	6.4	3.1	1.4
Jul	10.5	8.2	3.6	1.7
Aug	9.7	7.5	3.5	1.7
Sep	7.6	5.5	2.4	1.1
Oct	6.3	4.3	1.8	.8
Nov	6.9	4.7	2.1	.7
Dec	9.1	6.3	2.5	.8
Ann	105.0	76.0	31.7	12.8

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	1.55	1.94	2.50	2.96	3.40	3.86	4.35	4.92	5.64	6.76	7.78
Feb	.91	1.22	1.69	2.11	2.51	2.94	3.40	3.96	4.68	5.81	6.87
Mar	1.35	1.77	2.39	2.93	3.45	3.99	4.59	5.29	6.19	7.60	8.91
Apr	.56	.84	1.31	1.75	2.19	2.68	3.23	3.89	4.78	6.22	7.59
May	1.43	1.74	2.16	2.51	2.84	3.17	3.53	3.94	4.45	5.24	5.96
Jun	1.21	1.63	2.28	2.84	3.40	3.98	4.62	5.39	6.39	7.94	9.40
Jul	1.82	2.33	3.09	3.73	4.34	4.98	5.67	6.48	7.52	9.14	10.62
Aug	1.12	1.61	2.38	3.08	3.79	4.54	5.39	6.41	7.75	9.90	11.92
Sep	.46	.78	1.36	1.93	2.55	3.24	4.04	5.04	6.41	8.66	10.85
Oct	.17	.46	.92	1.36	1.83	2.34	2.94	3.69	4.70	6.36	7.97
Nov	.73	.99	1.40	1.76	2.11	2.48	2.89	3.38	4.02	5.03	5.98
Dec	.77	1.09	1.61	2.08	2.55	3.06	3.62	4.30	5.19	6.62	7.97
Ann	34.12	36.64	39.86	42.30	44.46	46.55	48.70	51.07	53.95	58.10	61.69

\+ 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: 1948-2001
(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	.2	.0	#	0
Feb	.3	.0	#	0
Mar	.3	.0	#	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.1	.0	#	0
Ann	.9	.0	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	3.0	2000	25	3.0	2000	2	1973	8	#	1973
Feb	6.0	1979	19	6.0	1979	6	1979	19	#+	1984
Mar	6.5	1983	25	6.5	1983	7	1983	25	#+	1983
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.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	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	1.0	1993	23	1.0	1993	1	1980	27	#	1980
Ann	6.5	Mar 1983	25	6.5	Mar 1983	7	Mar 1983	25	#+	Feb 1984

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.1	.1	.0	.0
Feb	.1	.1	.1	.1	.0
Mar	.1	.1	.1	.1	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.1	.1	.0	.0	.0
Ann	.5	.4	.3	.2	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	.0	.0	.0
Feb	@	@	@	.0
Mar	@	@	@	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	@	@	@	.0

+ 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	5/01	4/25	4/20	4/16	4/13	4/09	4/05	3/31	3/25
32	4/17	4/10	4/05	4/01	3/28	3/24	3/20	3/15	3/08
28	4/07	3/29	3/23	3/18	3/13	3/07	3/02	2/24	2/15
24	3/14	3/06	2/28	2/23	2/19	2/14	2/09	2/03	1/26
20	3/07	2/26	2/19	2/13	2/07	2/01	1/26	1/17	1/02
16	2/16	2/06	1/30	1/22	1/13	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	10/08	10/13	10/18	10/21	10/24	10/27	10/31	11/04	11/10
32	10/16	10/22	10/26	10/30	11/02	11/06	11/09	11/14	11/20
28	10/30	11/05	11/09	11/13	11/16	11/20	11/23	11/27	12/03
24	11/07	11/18	11/26	12/03	12/10	12/16	12/23	12/31	1/11
20	11/20	12/03	12/12	12/20	12/28	1/04	1/13	1/24	2/14
16	12/08	12/22	1/02	1/13	1/27	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	224	214	206	200	194	188	181	174	164
32	251	240	232	225	219	212	206	198	187
28	282	271	262	255	248	241	234	225	213
24	335	321	311	302	294	285	277	266	252
20	>365	>365	335	322	312	304	296	288	276
16	>365	>365	>365	>365	>365	>365	349	329	311

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	712	559	402	178	43	3	0	0	9	178	380	627	3091
60	568	426	264	88	10	0	0	0	1	95	253	481	2186
57	484	348	194	50	3	0	0	0	0	60	190	395	1724
55	430	299	154	32	1	0	0	0	0	42	153	341	1452
50	309	193	76	8	0	0	0	0	0	14	79	224	903
32	47	12	0	0	0	0	0	0	0	0	0	16	75

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	360	376	627	845	1127	1308	1471	1419	1211	907	622	413	10686
55	31	20	68	186	415	618	758	706	521	236	85	25	3669
57	23	13	46	145	355	558	696	644	461	192	62	17	3212
60	14	7	23	92	269	468	603	551	372	134	35	9	2577
65	0	0	5	33	147	320	448	396	229	62	12	0	1652
70	0	0	0	8	62	186	296	244	109	21	2	0	928

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	177	232	429	646	925	1105	1266	1210	1009	698	422	235	177	409	838	1484	2409	3514	4780	5990	6999	7697	8119	8354
45	100	137	295	497	770	955	1111	1055	859	543	288	136	100	237	532	1029	1799	2754	3865	4920	5779	6322	6610	6746
50	48	76	181	356	615	805	956	900	709	393	183	73	48	124	305	661	1276	2081	3037	3937	4646	5039	5222	5295
55	21	33	96	227	461	655	801	745	559	257	104	37	21	54	150	377	838	1493	2294	3039	3598	3855	3959	3996
60	3	12	42	127	311	506	646	590	410	145	50	12	3	15	57	184	495	1001	1647	2237	2647	2792	2842	2854
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	118	158	280	414	610	757	869	837	683	452	278	151	118	276	556	970	1580	2337	3206	4043	4726	5178	5456	5607

(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