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: ROCK MILLS, AL **COOP ID: 017025**

Climate Division: AL 5 **NWS Call Sign:** **Elevation: 745 Feet** **Lat: 33˚10N** **Lon: 85˚17W**

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	54.8	29.9	42.4	83	1949	12	54.0	1974	0+	1966	31	33.0	1977	703	0	.0	.0	23.1	.6	22.3	@
Feb	59.3	32.1	45.7	82+	1989	16	53.3	1990	6	1966	1	38.2	1978	540	0	.0	.0	22.1	.5	15.6	.0
Mar	67.8	38.7	53.3	87	1982	18	59.8	1997	11	1943	4	46.5	1971	373	9	.0	.0	29.9	@	7.5	.0
Apr	76.7	44.9	60.8	92+	1989	23	65.4	1981	24	2000	9	56.2	1983	155	30	.0	.5	29.9	.0	2.2	.0
May	83.5	53.8	68.7	98+	1962	19	72.6	1987	32+	1971	5	64.5	1997	38	150	.0	2.6	31.0	.0	.1	.0
Jun	90.3	62.0	76.2	103	1954	28	79.7	1981	30	1954	22	72.6	1997	1	336	.3	15.0	30.0	.0	.0	.0
Jul	92.5	66.5	79.5	107	1952	25	82.7	1980	52+	1967	16	77.1	1994	0	450	.7	21.7	31.0	.0	.0	.0
Aug	91.3	65.2	78.3	104	1947	4	81.2	1980	49	1992	29	74.2	1992	0	411	.5	22.5	31.0	.0	.0	.0
Sep	85.9	59.3	72.6	100+	1990	8	77.2	1980	32	1967	30	69.1	2000	11	239	@	8.1	30.0	.0	.0	.0
Oct	76.8	45.5	61.2	99	1954	5	67.7	1984	21+	1954	31	55.6	1987	168	49	.0	.5	31.0	.0	2.4	.0
Nov	66.8	37.5	52.2	86+	2000	1	60.7	1985	6	1950	25	45.6	1976	393	8	.0	.0	29.2	.0	9.9	.0
Dec	57.7	31.5	44.6	80+	1971	16	52.4	1984	-1	1962	13	35.7	2000	633	0	.0	.0	25.7	.2	17.5	.0
Ann	75.3	47.2	61.3	107	Jul 1952	25	82.7	Jul 1980	-1	Dec 1962	13	33.0	Jan 1977	3015	1682	1.5	70.9	343.9	1.3	77.5	@

\+ 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: 1938-2001

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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	5.91	5.88	4.23	1972	11	11.00	1972	1.34	1981
Feb	5.11	4.72	7.04	1961	25	11.06	1990	1.26	2000
Mar	6.05	5.08	5.32	1990	16	14.10	1976	1.48	1982
Apr	4.42	4.09	4.55	1945	25	12.52	1979	1.06	1986
May	3.65	3.41	2.92	2001	28	7.72	1980	.86	2000
Jun	4.21	3.47	5.79	1999	17	11.21	1999	.48	1988
Jul	4.64	4.03	4.04	1948	10	9.32	1994	1.35	1990
Aug	3.63	3.39	4.00	1945	13	8.38	1992	.92	1972
Sep	3.69	3.62	4.83	1988	16	12.08	1988	.20	1984
Oct	2.69	2.63	4.75	1965	1	7.67	1975	.15	1978
Nov	4.60	3.90	4.69	1948	27	11.78	1992	1.62	1981
Dec	4.68	4.03	4.24	1972	21	11.17	1972	.38	1988
Ann	53.28	53.20	7.04	Feb 1961	25	14.10	Mar 1976	.15	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.8	8.2	3.8	1.4
Feb	9.3	6.8	3.8	1.8
Mar	10.4	7.8	3.9	1.8
Apr	8.9	6.1	2.9	1.2
May	9.3	6.5	2.1	.8
Jun	10.9	6.7	1.9	.8
Jul	10.6	8.5	3.5	1.6
Aug	7.1	5.0	1.5	.7
Sep	8.2	5.5	2.4	1.0
Oct	6.8	4.4	1.7	.8
Nov	5.9	4.3	2.1	1.1
Dec	10.6	6.9	3.0	1.1
Ann	109.8	76.7	32.6	14.1

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	2.23	2.78	3.57	4.23	4.85	5.49	6.18	6.99	8.01	9.58	11.01
Feb	1.81	2.30	2.99	3.58	4.14	4.71	5.34	6.07	7.00	8.43	9.75
Mar	1.87	2.44	3.30	4.03	4.74	5.48	6.29	7.24	8.47	10.39	12.16
Apr	1.28	1.70	2.34	2.88	3.42	3.97	4.59	5.31	6.24	7.71	9.07
May	1.43	1.77	2.25	2.65	3.02	3.41	3.82	4.30	4.91	5.84	6.69
Jun	.79	1.17	1.78	2.35	2.94	3.56	4.27	5.13	6.27	8.11	9.85
Jul	1.60	2.04	2.68	3.22	3.73	4.27	4.85	5.52	6.39	7.73	8.97
Aug	1.29	1.64	2.13	2.54	2.94	3.35	3.79	4.30	4.96	5.98	6.91
Sep	.71	1.04	1.58	2.08	2.59	3.13	3.75	4.49	5.48	7.06	8.56
Oct	.41	.63	1.02	1.39	1.78	2.20	2.69	3.28	4.08	5.38	6.63
Nov	1.54	1.98	2.61	3.16	3.68	4.21	4.80	5.48	6.36	7.73	8.98
Dec	1.16	1.60	2.28	2.88	3.48	4.11	4.82	5.66	6.76	8.49	10.12
Ann	39.90	42.54	45.89	48.42	50.65	52.79	55.00	57.43	60.36	64.58	68.21

\+ 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: 1938-2001
(3) Derived from 1971-2000 serially complete 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	.5	.0	#	0
Feb	#	.0	0	0
Mar	.4	.0	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	0
Ann	1.0	.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	6.0	1992	19	6.0	1992	1	2000	28	#	2000
Feb	#	1980	6	#+	1980	0	0	0	0	0
Mar	6.0	1983	23	6.0	1983	0	0	0	0	0
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	2000	19	1.0	2000	0	0	0	0	0
Ann	6.0+	Jan 1992	19	6.0+	Jan 1992	1	Jan 2000	28	#	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.1	.1	.1	.1	.0
Feb	.0	.0	.0	.0	.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	.3	.3	.2	.2	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.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	.0	.0	.0	.0
Ann	.0	.0	.0	.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	4/30	4/25	4/22	4/19	4/16	4/14	4/11	4/08	4/03
32	4/26	4/18	4/13	4/09	4/05	4/01	3/27	3/22	3/15
28	4/08	4/01	3/27	3/22	3/18	3/13	3/09	3/03	2/24
24	3/22	3/14	3/09	3/04	2/28	2/24	2/19	2/13	2/04
20	3/06	2/26	2/20	2/15	2/09	2/04	1/29	1/21	0/00
16	2/25	2/16	2/09	2/03	1/28	1/22	1/14	12/30	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	10/01	10/06	10/10	10/13	10/16	10/19	10/22	10/25	10/30
32	10/08	10/15	10/19	10/23	10/27	10/31	11/04	11/09	11/15
28	10/24	10/31	11/05	11/10	11/14	11/18	11/23	11/28	12/05
24	10/31	11/10	11/18	11/24	11/30	12/06	12/13	12/21	1/03
20	11/19	11/28	12/05	12/11	12/17	12/23	12/30	1/08	0/00
16	12/03	12/14	12/22	12/29	1/05	1/13	1/22	2/08	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	201	194	190	186	182	178	174	169	162
32	235	225	217	211	205	199	192	185	174
28	274	263	255	247	241	234	227	219	207
24	311	294	285	278	271	265	259	251	241
20	>365	338	322	313	306	299	292	285	275
16	>365	>365	>365	347	333	323	314	305	294

***** 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	703	540	373	155	38	1	0	0	11	168	393	633	3015
60	557	401	241	68	8	0	0	0	2	82	262	487	2108
57	471	323	176	35	2	0	0	0	0	48	195	402	1652
55	416	272	138	20	1	0	0	0	0	31	157	348	1383
50	291	162	66	4	0	0	0	0	0	8	81	230	842
32	35	4	0	0	0	0	0	0	0	0	0	17	56

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	355	388	659	865	1136	1325	1473	1434	1218	904	605	407	10769
55	23	12	84	195	423	635	760	721	528	222	71	24	3698
57	16	7	59	150	363	575	698	659	468	177	50	16	3238
60	10	1	32	93	276	485	605	566	379	119	26	9	2601
65	0	0	9	30	150	336	450	411	239	49	8	0	1682
70	0	0	0	6	63	194	295	257	122	14	0	0	951

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	146	221	432	638	882	1068	1225	1186	985	667	389	196	146	367	799	1437	2319	3387	4612	5798	6783	7450	7839	8035
45	62	125	288	490	727	918	1070	1031	835	513	253	99	62	187	475	965	1692	2610	3680	4711	5546	6059	6312	6411
50	27	57	168	346	572	768	915	876	685	361	143	47	27	84	252	598	1170	1938	2853	3729	4414	4775	4918	4965
55	7	19	81	212	417	618	760	721	535	225	69	22	7	26	107	319	736	1354	2114	2835	3370	3595	3664	3686
60	0	1	32	108	268	468	605	566	387	110	27	2	0	1	33	141	409	877	1482	2048	2435	2545	2572	2574
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	110	166	297	427	585	707	826	797	663	452	275	143	110	276	573	1000	1585	2292	3118	3915	4578	5030	5305	5448

(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