

Climatology of the United States

No. 20

1971-2000

Station: SALISBURY, NC

COOP ID: 317615

Climate Division: NC 4

NWS Call Sign:

Elevation: 700 Feet Lat: 35°41N Lon: 80°29W

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	50.8	29.5	40.2	82	1937	15	50.9	1974	-11	1940	28	29.7	1977	771	0	.0	.0	16.4	1.2	19.7	.1
Feb	55.6	31.8	43.7	82	1948	28	51.4	1976	0+	1958	18	35.7	1978	597	0	.0	.0	19.4	.5	16.1	.0
Mar	64.1	39.1	51.6	93	1907	29	56.7	1997	2	1980	3	47.2	1971	417	3	.0	.0	28.5	.1	8.4	.0
Apr	73.0	46.4	59.7	95	1915	26	63.4	1981	21	1982	24	55.5	1983	174	15	.0	.3	29.8	.0	1.9	.0
May	79.6	55.1	67.4	102	1941	22	72.1	1991	29	1976	9	63.5	1992	46	118	.0	1.6	31.0	.0	.1	.0
Jun	86.1	63.5	74.8	105	1944	19	78.6	1986	41+	1972	11	70.8	1979	2	296	.1	8.9	30.0	.0	.0	.0
Jul	89.5	67.8	78.7	105+	1952	29	83.1	1993	49	1919	1	75.7	1979	0	424	.6	17.0	31.0	.0	.0	.0
Aug	87.8	66.6	77.2	105+	1983	21	80.4	1987	45	1905	29	74.7	1985	0	378	.4	12.2	31.0	.0	.0	.0
Sep	81.8	59.7	70.8	103+	1954	6	74.7	1998	34	1942	30	67.5	1974	17	190	.0	4.0	30.0	.0	.0	.0
Oct	72.4	47.1	59.8	100	1919	5	66.2	1984	21+	2001	29	52.9	1988	203	40	.0	.2	30.9	.0	1.8	.0
Nov	62.5	38.6	50.6	89	1900	2	57.6	1985	11+	1950	26	44.9	1996	435	2	.0	.0	27.1	.0	9.7	.0
Dec	53.5	31.8	42.7	79	1984	19	51.4	1971	-5	1935	31	34.5	2000	694	0	.0	.0	19.8	.4	18.0	.0
Ann	71.4	48.1	59.8	105+	Aug 1983	21	83.1	Jul 1993	-11	Jan 1940	28	29.7	Jan 1977	3356	1466	1.1	44.2	324.9	2.2	75.7	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1893-2001

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

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Climatology 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: SALISBURY, NC

COOP ID: 317615

Climate Division: NC 4

NWS Call Sign:

Elevation: 700 Feet Lat: 35°41N

Lon: 80°29W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	3.53	3.44	3.80	1915	7	7.24	1978	1.00	1981	9.5	6.7	2.8	.9	1.22	1.55	2.04	2.45	2.84	3.25	3.69	4.20	4.86	5.89	6.83
Feb	3.60	3.60	3.14	1929	28	7.97	1984	.54	1978	7.7	5.9	2.8	1.1	1.01	1.36	1.87	2.32	2.76	3.22	3.73	4.33	5.11	6.34	7.48
Mar	4.18	3.72	4.22	1952	4	8.43	1993	.97	1985	9.2	6.9	3.1	1.3	1.44	1.83	2.41	2.89	3.36	3.84	4.36	4.97	5.75	6.96	8.07
Apr	3.28	3.22	3.00	1984	10	6.74	1997	.37	1986	7.7	6.0	2.4	.7	.77	1.07	1.55	1.98	2.41	2.86	3.37	3.97	4.76	6.02	7.20
May	3.76	3.71	4.70	1940	30	8.25	1975	.42	1999	8.5	6.2	2.6	1.2	.87	1.22	1.77	2.26	2.75	3.27	3.86	4.56	5.47	6.93	8.30
Jun	3.91	3.10	3.78	1979	16	9.96	1981	.10	1986	8.5	6.2	2.4	1.0	.66	.99	1.56	2.10	2.65	3.25	3.94	4.77	5.88	7.68	9.40
Jul	3.94	3.26	4.35	1944	14	9.03	1995	.99	1983	8.5	6.2	2.6	1.1	1.06	1.44	2.00	2.50	2.99	3.50	4.07	4.75	5.63	7.00	8.28
Aug	3.19	2.61	5.30	1943	29	7.44	1974	.63	1975	7.5	5.4	2.2	.7	.84	1.15	1.61	2.02	2.42	2.84	3.30	3.85	4.57	5.71	6.77
Sep	3.69	3.53	4.31	1928	19	9.10	1975	.00	1985	6.6	4.4	2.6	1.3	.57	1.06	1.69	2.20	2.71	3.24	3.84	4.54	5.46	6.91	8.28
Oct	3.63	2.99	5.20	1929	2	14.02	1990	.00	2000	5.9	4.5	2.4	1.3	.23	.59	1.16	1.70	2.26	2.88	3.59	4.47	5.67	7.62	9.51
Nov	3.04	2.79	3.00	1912	7	5.61	1972	.44	1981	7.8	5.5	2.3	.8	1.03	1.31	1.73	2.09	2.43	2.78	3.17	3.62	4.19	5.08	5.90
Dec	3.11	3.00	3.16	1958	28	6.54	1973	.58	2000	8.5	5.8	2.2	.9	.80	1.09	1.54	1.94	2.34	2.75	3.21	3.75	4.47	5.59	6.64
Ann	42.86	42.18	5.30	Aug 1943	29	14.02	Oct 1990	.00+	Oct 2000	95.9	69.7	30.4	12.3	31.23	33.50	36.40	38.59	40.53	42.40	44.33	46.46	49.03	52.75	55.96

+ 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: 1893-2001

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

Complete documentation available from:
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151 Patton Avenue
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Station: SALISBURY, NC

COOP ID: 317615

Climate Division: NC 4

NWS Call Sign:

Elevation: 700 Feet

Lat: 35°41N

Lon: 80°29W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
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	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	1.9	.0	#	0	8.5	1973	8	8.5	1973	8	1981	30	#+	2000	.6	.4	.3	.1	.0	.1	.1	.1	.0
Feb	2.8	.2	#	0	12.0	1979	18	20.0	1979	10	1984	6	#+	1994	.6	.4	.2	.2	.1	.3	.1	.1	@
Mar	.6	.0	#	0	4.7	1978	3	5.1	1978	2+	1978	3	#+	1978	.2	.2	.1	.0	.0	.1	.0	.0	.0
Apr	#	.0	0	0	#	1977	7	#	1977	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	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	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	0	0	#	1987	11	#+	1987	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.8	.0	#	0	8.0	1971	3	8.0	1971	8	1971	3	#	1971	.1	.1	.1	.1	.0	@	@	@	.0
Ann	6.1	.2	N/A	N/A	12.0	Feb 1979	18	20.0	Feb 1979	10	Feb 1984	6	#+	Jan 2000	1.5	1.1	.7	.4	.1	.5	.2	.2	@

+ 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

Complete documentation available from:

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No. 20 1971-2000

Station: SALISBURY, NC

COOP ID: 317615

Climate Division: NC 4

NWS Call Sign:

Elevation: 700 Feet

Lat: 35° 41N

Lon: 80° 29W

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	5/11	5/05	5/01	4/27	4/24	4/21	4/17	4/13	4/07
32	4/26	4/20	4/16	4/12	4/09	4/06	4/02	3/29	3/23
28	4/10	4/04	3/31	3/27	3/24	3/21	3/17	3/13	3/08
24	3/29	3/22	3/16	3/12	3/08	3/03	2/27	2/22	2/14
20	3/16	3/08	3/02	2/25	2/20	2/16	2/11	2/05	1/28
16	3/06	2/23	2/16	2/09	2/03	1/28	1/22	1/14	1/04
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	9/30	10/05	10/08	10/11	10/14	10/16	10/19	10/22	10/27
32	10/09	10/14	10/18	10/21	10/25	10/28	10/31	11/04	11/09
28	10/24	10/29	11/02	11/05	11/08	11/11	11/15	11/18	11/24
24	11/04	11/11	11/15	11/19	11/23	11/26	11/30	12/05	12/11
20	11/19	11/27	12/03	12/07	12/12	12/16	12/21	12/27	1/04
16	11/29	12/09	12/17	12/23	12/29	1/04	1/10	1/18	1/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	194	186	181	176	172	167	163	157	150
32	218	211	206	202	198	194	189	184	177
28	255	246	239	234	229	223	218	211	202
24	285	276	270	265	260	255	249	243	234
20	325	314	306	300	294	288	281	273	263
16	>365	353	336	327	319	313	306	298	287

* 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

Complete documentation available from:
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COOP ID: 317615

Climate Division: NC 4 NWS Call Sign: Elevation: 700 Feet Lat: 35°41N Lon: 80°29W

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	771	597	417	174	46	2	0	0	17	203	435	694	3356
60	623	457	276	74	10	0	0	0	3	108	295	545	2391
57	535	379	202	37	3	0	0	0	1	67	220	457	1901
55	478	327	160	21	1	0	0	0	0	46	175	400	1608
50	346	209	78	3	0	0	0	0	0	14	88	272	1010
32	53	10	0	0	0	0	0	0	0	0	0	26	89

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	305	337	609	831	1095	1284	1447	1401	1163	860	557	355	10244
55	17	10	55	162	383	594	734	688	473	193	42	16	3367
57	12	6	35	118	323	534	672	626	413	152	26	11	2928
60	7	0	16	65	237	444	579	533	326	99	12	6	2324
65	0	0	3	15	118	296	424	378	190	40	2	0	1466
70	0	0	0	1	43	163	271	226	83	11	0	0	798

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	123	184	381	604	857	1055	1211	1161	934	624	332	159	123	307	688	1292	2149	3204	4415	5576	6510	7134	7466	7625
45	61	103	250	455	702	905	1056	1006	784	470	211	85	61	164	414	869	1571	2476	3532	4538	5322	5792	6003	6088
50	29	52	149	313	547	755	901	851	634	321	121	43	29	81	230	543	1090	1845	2746	3597	4231	4552	4673	4716
55	2	16	76	192	395	605	746	696	484	195	52	15	2	18	94	286	681	1286	2032	2728	3212	3407	3459	3474
60	0	2	32	100	256	455	591	541	336	100	17	0	0	2	34	134	390	845	1436	1977	2313	2413	2430	2430
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	79	126	245	388	565	722	831	804	626	398	210	104	79	205	450	838	1403	2125	2956	3760	4386	4784	4994	5098

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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