

Climatography of the United States

No. 20

1971-2000

Station: RIPLEY, MS

COOP ID: 227467

Climate Division: MS 3

NWS Call Sign:

Elevation: 520 Feet

Lat: 34°44N

Lon: 88°57W

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	47.7	27.7	37.7	79+	1952	1	44.6	1974	-13	1966	30	26.0	1977	846	0	.0	.0	13.4	3.6	21.3	.4
Feb	53.3	30.9	42.1	82	1996	24	48.9	1990	-2	1958	17	31.2	1978	642	0	.0	.0	17.2	1.7	16.9	.1
Mar	62.6	39.0	50.8	85+	1963	31	56.8	1974	8	1960	5	45.1	1971	445	4	.0	.0	26.5	.2	9.9	.0
Apr	71.8	46.4	59.1	92	1987	22	65.6	1981	24+	1989	11	54.0	1983	206	28	.0	.1	29.5	.0	2.5	.0
May	79.4	56.0	67.7	96	1982	31	72.9	1987	33+	1976	4	62.2	1976	58	142	.0	1.2	31.0	.0	.0	.0
Jun	86.8	64.0	75.4	104+	1952	29	79.8	1998	42	1984	1	70.7	1974	2	314	.0	11.0	30.0	.0	.0	.0
Jul	90.4	68.1	79.3	108	1980	15	83.7	1980	51	1967	15	76.7	1972	0	442	.8	18.6	31.0	.0	.0	.0
Aug	89.8	66.2	78.0	106	1954	16	82.8	1980	48+	1986	29	73.1	1992	0	403	.9	17.5	31.0	.0	.0	.0
Sep	83.7	59.2	71.5	105	1954	5	77.2	1998	34	1967	30	66.0	1974	24	218	.1	7.6	30.0	.0	.0	.0
Oct	73.0	46.3	59.7	95+	1953	1	65.8	1984	17	1952	29	53.6	1987	210	44	.0	.3	30.7	.0	2.1	.0
Nov	61.1	37.9	49.5	85+	1955	14	56.4	1985	10	1970	25	40.7	1976	468	3	.0	.0	25.0	.1	10.0	.0
Dec	51.2	30.6	40.9	77+	1951	7	50.9	1984	-6+	1989	23	30.2	1989	747	0	.0	.0	17.6	1.9	18.4	.2
Ann	70.9	47.7	59.3	108	Jul 1980	15	83.7	Jul 1980	-13	Jan 1966	30	26.0	Jan 1977	3648	1598	1.8	56.3	312.9	7.5	81.1	.7

+ 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: 1948-2001

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

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No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: RIPLEY, MS

COOP ID: 227467

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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	5.17	4.88	5.31	1974	11	13.87	1974	.56	1986	10.1	7.8	3.5	1.5	1.29	1.78	2.53	3.20	3.86	4.55	5.33	6.25	7.45	9.36	11.15
Feb	4.69	4.16	5.15	1966	10	9.90	1990	1.20	1978	8.4	6.9	3.0	1.3	1.49	1.93	2.59	3.16	3.70	4.26	4.88	5.60	6.54	7.99	9.33
Mar	6.08	5.48	6.92	1973	15	17.50	1973	2.53	1985	10.2	8.1	4.2	1.7	2.27	2.84	3.65	4.34	4.98	5.64	6.36	7.20	8.26	9.89	11.39
Apr	5.52	4.73	4.92	1998	28	12.49	1991	1.71	1976	9.2	7.1	3.7	2.0	1.87	2.39	3.16	3.80	4.42	5.06	5.76	6.58	7.62	9.24	10.73
May	5.42	5.18	4.45	1978	7	11.18	1978	1.26	1992	10.4	8.3	3.3	1.6	1.91	2.42	3.16	3.79	4.38	5.00	5.67	6.44	7.44	8.98	10.40
Jun	4.69	3.98	4.00	1974	1	11.10	1989	.00	1988	8.7	6.8	3.2	1.6	1.03	1.70	2.48	3.10	3.69	4.30	4.96	5.73	6.72	8.26	9.68
Jul	4.67	4.39	6.27	1953	22	7.94	1995	1.12	1978	9.2	7.2	3.0	1.4	1.70	2.14	2.77	3.30	3.80	4.32	4.88	5.53	6.36	7.64	8.82
Aug	3.00	2.69	2.97	1963	29	6.56	1985	.15	1999	7.1	5.2	2.0	.8	.53	.79	1.23	1.64	2.06	2.52	3.04	3.66	4.50	5.85	7.14
Sep	3.73	2.97	4.63	1979	14	9.25	1979	.27	1999	7.5	5.6	2.6	.9	.53	.84	1.38	1.89	2.43	3.03	3.71	4.55	5.68	7.53	9.31
Oct	3.38	3.43	4.29	1976	25	7.76	1976	.00	2000	6.1	4.9	2.5	1.0	.63	1.10	1.67	2.13	2.58	3.04	3.55	4.15	4.93	6.14	7.28
Nov	5.70	5.40	6.62	1973	27	12.99	1973	1.55	1971	8.9	6.9	3.5	1.8	1.71	2.25	3.06	3.76	4.44	5.14	5.92	6.84	8.02	9.87	11.58
Dec	6.22	5.29	8.66	1991	1	16.46	1991	.62	1980	10.1	7.9	4.0	2.0	1.49	2.07	2.98	3.79	4.59	5.44	6.39	7.53	9.01	11.37	13.59
Ann	58.27	54.69	8.66	Dec 1991	1	17.50	Mar 1973	.00+	Oct 2000	105.9	82.7	38.5	17.6	42.36	45.47	49.43	52.43	55.09	57.65	60.29	63.21	66.74	71.84	76.24

+ 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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Station: RIPLEY, MS

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Climate Division: MS 3

NWS Call Sign:

Elevation: 520 Feet

Lat: 34° 44N

Lon: 88° 57W

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	1.4	.3	#	0	7.0	1998	16	7.0	1998	3	2000	28	#+	2000	.7	.4	.1	@	.0	.2	.0	.0	.0
Feb	1.3	.0	#	0	6.5	1971	8	7.5	1985	7	1971	8	1	1971	.5	.4	.2	@	.0	.1	.0	.0	.0
Mar	.0	.0	#	0	.5	1980	2	.5	1980	1+	1984	10	#+	1984	.1	.0	.0	.0	.0	@	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	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	.1	.0	#	0	.8	1976	29	.8	1976	1	1976	29	#	1976	.1	.0	.0	.0	.0	@	.0	.0	.0
Dec	.3	.0	#	0	2.5	1983	16	3.0	1983	3	1985	20	2	1985	.2	.1	.0	.0	.0	@	.0	.0	.0
Ann	3.1	.3	N/A	N/A	7.0	Jan 1998	16	7.5	Feb 1985	7	Feb 1971	8	2	Dec 1985	1.6	.9	.3	@	.0	.3	.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

Complete documentation available from:

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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	4/29	4/25	4/21	4/19	4/16	4/13	4/11	4/07	4/03
32	4/19	4/15	4/12	4/10	4/08	4/05	4/03	3/31	3/27
28	4/08	4/04	3/31	3/28	3/26	3/23	3/20	3/17	3/12
24	3/26	3/19	3/14	3/10	3/06	3/03	2/26	2/22	2/15
20	3/14	3/07	3/01	2/25	2/20	2/16	2/12	2/06	1/30
16	3/08	2/27	2/20	2/15	2/10	2/04	1/30	1/23	1/12
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	10/04	10/08	10/11	10/14	10/16	10/19	10/21	10/25	10/29
32	10/11	10/17	10/21	10/25	10/28	11/01	11/04	11/09	11/15
28	10/26	10/30	11/02	11/05	11/07	11/10	11/13	11/16	11/20
24	11/06	11/12	11/17	11/21	11/24	11/27	12/01	12/06	12/12
20	11/11	11/20	11/27	12/03	12/08	12/14	12/19	12/26	1/05
16	11/26	12/07	12/15	12/22	12/28	1/04	1/11	1/19	2/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	200	194	190	186	183	179	175	171	165
32	222	216	211	207	203	199	195	190	184
28	247	240	235	230	226	222	217	212	205
24	287	278	272	267	262	257	252	245	237
20	324	310	302	295	288	282	275	267	256
16	>365	343	331	323	316	309	302	295	284

* 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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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	846	642	445	206	58	2	0	0	24	210	468	747	3648
60	691	504	305	109	18	0	0	0	6	114	330	598	2675
57	606	426	231	66	7	0	0	0	2	73	254	511	2176
55	548	374	188	44	4	0	0	0	1	51	210	454	1874
50	409	256	101	13	0	0	0	0	0	17	119	324	1239
32	78	24	1	0	0	0	0	0	0	0	2	45	150

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	256	306	583	812	1106	1302	1465	1426	1184	858	527	322	10147
55	12	12	57	166	397	612	752	713	495	196	45	18	3475
57	9	8	38	128	338	552	690	651	436	155	29	12	3046
60	0	2	19	81	256	462	597	558	350	104	15	6	2450
65	0	0	4	28	142	314	442	403	218	44	3	0	1598
70	0	0	0	7	62	176	287	254	114	14	0	0	914

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	107	174	364	580	869	1073	1227	1193	959	628	324	157	107	281	645	1225	2094	3167	4394	5587	6546	7174	7498	7655
45	54	100	240	435	714	923	1072	1038	809	474	215	86	54	154	394	829	1543	2466	3538	4576	5385	5859	6074	6160
50	27	53	147	305	559	773	917	883	659	332	124	45	27	80	227	532	1091	1864	2781	3664	4323	4655	4779	4824
55	6	20	77	187	404	623	762	728	509	211	64	13	6	26	103	290	694	1317	2079	2807	3316	3527	3591	3604
60	0	2	34	102	265	473	607	573	367	115	27	1	0	2	36	138	403	876	1483	2056	2423	2538	2565	2566
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	66	115	230	375	571	735	845	810	643	410	204	93	66	181	411	786	1357	2092	2937	3747	4390	4800	5004	5097

(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