

Climatology of the United States No. 20

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

Station: VICKSBURG MILITARY PARK, MS

1971-2000

COOP ID: 229216

Climate Division: MS 7

NWS Call Sign:

Elevation: 255 Feet

Lat: 32° 21N

Lon: 90° 51W

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	58.8	35.5	47.2	81	1972	24	54.1	1989	3	1982	11	37.1	1977	564	0	.0	.0	23.8	.6	13.1	.0
Feb	64.0	38.7	51.4	86	1977	25	59.2	1999	8	1996	5	41.5	1978	389	7	.0	.0	24.2	.3	9.0	.0
Mar	71.6	45.2	58.4	90	1982	18	63.4	1985	14	1996	9	54.6+	1996	222	18	.0	@	30.1	.0	3.3	.0
Apr	77.8	52.3	65.1	94	1999	15	70.8	1981	25	1987	4	60.5	1983	81	81	.0	.4	30.0	.0	.4	.0
May	84.2	60.6	72.4	97	1977	31	75.7	1998	42	1989	12	68.2	1976	7	236	.0	3.4	31.0	.0	.0	.0
Jun	90.0	67.6	78.8	102+	1977	28	82.3	1998	50	1984	2	75.4	1974	0	413	.2	17.5	30.0	.0	.0	.0
Jul	92.3	71.0	81.7	106	2000	16	85.0	2000	54	1990	15	78.7	1994	0	516	.6	25.0	31.0	.0	.0	.0
Aug	92.1	70.1	81.1	110	2000	31	85.4	2000	51	1990	9	76.5	1992	0	499	.7	23.4	31.0	.0	.0	.0
Sep	87.8	64.9	76.4	106	2000	1	81.1	1972	41+	1967	29	72.0	1974	2	343	.3	13.2	30.0	.0	.0	.0
Oct	79.4	53.6	66.5	96	1998	1	71.4	1984	28	1993	31	60.4	1976	70	116	.0	1.3	31.0	.0	.2	.0
Nov	69.1	44.9	57.0	91	1999	9	62.9	1985	17	1976	30	49.0	1976	270	29	.0	.1	28.7	.0	3.3	.0
Dec	61.0	38.5	49.8	85+	1970	1	60.2	1984	2	1989	23	41.1	1989	484	11	.0	.0	25.9	.3	10.9	.0
Ann	77.3	53.6	65.5	110	Aug 2000	31	85.4	Aug 2000	2	Dec 1989	23	37.1	Jan 1977	2089	2269	1.8	84.3	346.7	1.2	40.2	.0

+ 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: 1967-2001

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

065-A

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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	6.28	5.39	5.50	1994	27	18.15	1974	1.18	1986	10.8	8.1	4.1	1.9	1.49	2.08	3.00	3.82	4.63	5.50	6.46	7.61	9.12	11.51	13.76
Feb	4.75	4.50	4.00	2001	28	10.23	1983	.87	2000	8.2	6.1	3.3	1.6	1.29	1.74	2.43	3.03	3.62	4.23	4.92	5.73	6.79	8.44	9.99
Mar	6.40	6.19	7.65	1973	16	15.42	1973	1.18	1992	9.3	7.1	4.1	2.3	1.94	2.55	3.46	4.24	5.00	5.78	6.65	7.67	8.99	11.05	12.95
Apr	5.60	4.83	5.59	1983	14	14.56	1991	1.02	1989	7.6	5.9	3.4	1.9	1.16	1.67	2.49	3.24	4.00	4.80	5.72	6.81	8.25	10.57	12.75
May	5.44	4.62	5.15	1990	31	13.23	1983	.68	1982	7.8	6.2	3.5	2.0	1.12	1.62	2.41	3.14	3.88	4.66	5.55	6.62	8.03	10.28	12.42
Jun	4.26	4.69	4.47	1997	10	8.57	1989	.52	1990	8.0	6.0	2.9	1.2	.97	1.36	1.99	2.55	3.11	3.70	4.37	5.17	6.22	7.88	9.45
Jul	4.25	3.59	7.70	1993	11	12.13	1989	.64	1997	8.6	6.3	2.8	1.4	.79	1.17	1.79	2.37	2.96	3.59	4.31	5.18	6.33	8.19	9.95
Aug	3.12	2.51	6.43	1982	1	10.79	1992	.46	1990	6.3	4.8	1.7	.8	.39	.64	1.08	1.51	1.97	2.48	3.07	3.81	4.80	6.43	8.01
Sep	3.36	3.03	3.71+	1979	20	6.98	1991	.58	1984	6.5	5.0	2.1	.8	1.16	1.48	1.94	2.33	2.71	3.09	3.51	4.00	4.63	5.60	6.49
Oct	3.80	3.13	7.50	1975	16	11.59	1984	.16	1989	5.9	4.5	2.3	1.1	.37	.64	1.16	1.69	2.26	2.91	3.68	4.64	5.95	8.14	10.28
Nov	5.03	4.65	6.84	1987	16	10.85	1987	1.16	1971	8.5	6.4	3.2	1.9	1.87	2.34	3.01	3.58	4.12	4.67	5.26	5.95	6.84	8.20	9.44
Dec	5.70	5.29	5.19	1990	22	13.30	1982	.84	1980	9.0	6.8	3.6	2.0	1.54	2.08	2.90	3.62	4.33	5.07	5.89	6.87	8.14	10.12	11.98
Ann	57.99	57.86	7.70	Jul 1993	11	18.15	Jan 1974	.16	Oct 1989	96.5	73.2	37.0	18.9	42.72	45.72	49.53	52.42	54.97	57.42	59.95	62.74	66.11	70.98	75.17

+ 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: 1967-2001

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

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Lat: 32°21N

Lon: 90°51W

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	.5	.0	0	0	6.3	1982	14	6.3	1982	0	0	0	0	0	.1	.1	.1	.1	.0	.0	.0	.0	.0
Feb	#	.0	#	0	#	1989	6	#+	1989	#	1989	6	#	1989	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	#	0	.5	1978	4	.5	1978	1	1978	4	#	1978	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	#	0	#	1990	24	#+	1990	5	1997	14	#+	1997	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.5	.0	N/A	N/A	6.3	Jan 1982	14	6.3	Jan 1982	5	Dec 1997	14	#+	Dec 1997	.2	.1	.1	.1	.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	4/14	4/09	4/05	4/02	3/30	3/27	3/24	3/20	3/15
32	4/08	4/02	3/28	3/24	3/20	3/16	3/12	3/07	2/28
28	3/23	3/15	3/10	3/05	3/01	2/24	2/20	2/14	2/07
24	3/10	3/02	2/23	2/18	2/13	2/08	2/02	1/27	1/18
20	3/02	2/20	2/12	2/05	1/29	1/22	1/13	12/31	0/00
16	2/13	2/01	1/23	1/13	12/30	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	10/17	10/24	10/29	11/02	11/06	11/10	11/14	11/19	11/25
32	10/28	11/04	11/08	11/12	11/16	11/19	11/23	11/28	12/04
28	11/10	11/17	11/21	11/25	11/29	12/03	12/07	12/11	12/18
24	11/17	11/29	12/07	12/14	12/21	12/28	1/04	1/13	1/25
20	11/28	12/09	12/18	12/25	1/01	1/09	1/18	1/31	0/00
16	12/18	12/28	1/04	1/13	1/26	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	248	238	231	225	220	215	209	202	192
32	268	258	251	246	240	235	229	222	212
28	304	293	285	279	273	266	260	252	242
24	342	326	318	311	305	299	293	286	276
20	>365	>365	>365	352	333	323	313	304	292
16	>365	>365	>365	>365	>365	>365	>365	346	330

* 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	564	389	222	81	7	0	0	0	2	70	270	484	2089
60	424	263	114	26	1	0	0	0	0	24	166	346	1364
57	347	199	67	10	0	0	0	0	0	10	117	273	1023
55	300	162	44	5	0	0	0	0	0	6	90	230	837
50	203	88	11	0	0	0	0	0	0	1	39	143	485
32	17	1	0	0	0	0	0	0	0	0	0	6	24

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	487	543	819	991	1252	1403	1539	1522	1331	1069	749	555	12260
55	56	59	150	305	539	713	826	809	641	362	148	67	4675
57	41	40	111	251	477	653	764	747	581	305	116	48	4134
60	25	21	65	176	385	563	671	654	491	225	75	28	3379
65	0	7	18	81	236	413	516	499	343	116	29	11	2269
70	0	0	2	25	112	264	361	344	207	45	9	0	1369

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	269	360	578	756	1013	1168	1299	1277	1098	832	520	334	269	629	1207	1963	2976	4144	5443	6720	7818	8650	9170	9504
45	166	245	430	606	858	1018	1144	1122	948	677	378	218	166	411	841	1447	2305	3323	4467	5589	6537	7214	7592	7810
50	93	149	293	457	703	868	989	967	798	523	254	128	93	242	535	992	1695	2563	3552	4519	5317	5840	6094	6222
55	48	77	178	316	548	718	834	812	648	371	153	71	48	125	303	619	1167	1885	2719	3531	4179	4550	4703	4774
60	19	31	89	191	393	568	679	657	500	231	80	31	19	50	139	330	723	1291	1970	2627	3127	3358	3438	3469
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	177	237	375	496	687	807	890	870	750	544	328	209	177	414	789	1285	1972	2779	3669	4539	5289	5833	6161	6370

(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