Climate Division: MS 2

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

COOP ID: 229400

Lon: 89°38W

Station: WATER VALLEY 1 NNE, MS

NWS Call Sign:

Temperature (°F)

Elevation: 376 Feet Lat: 34°10N

									ŗ	Гетр	eratui	re (°F)									
	Max Min Daily(2) Mean Mean Mean Mean 49.9 29.5 39.7 82 1972 25 46.5 1974 -10+ 1966 30 28.1 1977														Days (1) emp 65		Mean	Numb	er of I	Days (3)	
Month			Mean	-	Year	Day	Month(1)	Year		Year	Day	Month(1)	Year	Heating	Cooling	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	49.9	29.5	39.7	82	1972	25	46.5	1974	-10+	1966	30	28.1	1977	783	0	.0	.0	17.3	2.2	20.4	.3
Feb	55.6	32.7	44.2	83	1996	26	51.5	1990	-13	1951	2	33.5	1978	584	0	.0	.0	19.5	1.2	15.8	.0
Mar	64.8	40.9	52.9	87	1982	19	58.7	1974	9	1980	3	47.6	1978	386	8	.0	.0	27.9	.1	8.9	.0
Apr	73.2	48.2	60.7	94	1987	22	67.1	1981	24	1987	4	54.5	1983	166	38	.0	.2	29.7	.0	2.3	.0
May	80.2	57.8	69.0	97+	1951	30	74.3	1987	35	1976	4	63.2	1976	45	169	.0	1.5	31.0	.0	.0	.0
Jun	87.3	66.1	76.7	104+	1952	28	80.0	1998	42	1984	1	72.2	1974	1	350	.1	10.4	30.0	.0	.0	.0
Jul	90.7	69.9	80.3	108	1952	29	84.1	1980	51	1967	15	77.7	1994	0	474	.7	19.8	31.0	.0	.0	.0
Aug	90.7	67.9	79.3	107+	2000	30	83.3	2000	49	1986	29	75.0	1992	0	443	1.1	19.2	31.0	.0	.0	.0
Sep	85.4	61.2	73.3	104+	2000	1	78.7	1998	33+	1967	29	68.0	1974	16	265	.6	10.3	30.0	.0	.0	.0
Oct	75.4	48.4	61.9	97	1998	1	67.8	1971	24+	1952	29	56.8	1976	157	60	.0	.9	30.9	.0	1.5	.0
Nov	63.3	39.9	51.6	89	1984	1	57.5	1985	12+	1970	24	43.6	1976	408	5	.0	.0	27.0	@	9.4	.0
Dec	53.3	32.3	42.8	81	1982	3	52.7	1984	-4+	1989	23	33.1	1989	689	0	.0	.0	20.5	1.1	18.0	.2
Ann	72.5	49.6	61.0	108	Jul 1952	29	84.1	Jul 1980	-13	Feb 1951	2	28.1	Jan 1977	3235	1812	2.5	62.3	325.8	4.6	76.3	.5

⁺ Also occurred on an earlier date(s)

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Issue Date: February 2004 066-A

- (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

[@] Denotes mean number of days greater than 0 but less than .05

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COOP ID: 229400

Station: WATER VALLEY 1 NNE, MS

Climate Division: MS 2 NWS Call Sign: Elevation: 376 Feet Lat: 34°10N Lon: 89°38W

										Pı	recipi	tation	(incl	nes)										
			P	recip	itatio	on Total	S			M	lean N of D	Numbo Pays (3		Proba	ability th		nonthly/	annual j	precipita ated am		ll be equ		less tha	an the
		ans/ ans(1)				Extremes	5			D	aily Pre	cipitatio	n		Th		•		-	vs Probal incomplet	•		ion	
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	5.25	5.04	4.71	1974	11	12.69	1974	.29	1986	9.7	7.6	3.7	1.5	1.13	1.62	2.39	3.08	3.79	4.53	5.37	6.38	7.71	9.83	11.83
Feb	4.56	4.03	5.65	1991	19	11.61	1990	1.13	1972	8.3	6.6	3.2	1.6	1.28	1.71	2.37	2.94	3.50	4.08	4.73	5.49	6.48	8.04	9.49
Mar	6.23	5.38	4.61	1973	15	17.89	1973	1.40	1982	9.8	7.7	3.9	2.4	1.95	2.54	3.42	4.17	4.90	5.65	6.48	7.45	8.71	10.66	12.47
Apr	5.57	4.53	4.30	1955	13	16.21	1991	1.55	1986	7.7	6.3	3.7	2.2	1.43	1.95	2.76	3.48	4.18	4.92	5.75	6.73	8.01	10.02	11.91
May	5.57	5.17	5.68	1984	7	11.85	1978	.64	1992	8.9	7.4	3.6	1.9	1.18	1.70	2.51	3.26	4.00	4.80	5.70	6.77	8.19	10.46	12.60
Jun	4.92	4.30	3.16	1996	14	12.57	1974	.63	1988	8.1	6.9	3.4	1.5	.96	1.40	2.12	2.79	3.46	4.19	5.01	5.99	7.30	9.41	11.40
Jul	4.41	3.73	5.28	1955	24	8.49	1992	1.01	1986	8.1	6.9	3.0	1.4	1.22	1.63	2.27	2.83	3.37	3.94	4.57	5.32	6.29	7.81	9.23
Aug	3.34	3.10	4.44	1960	19	10.06	1982	.09	2000	6.3	5.0	2.5	1.1	.55	.84	1.32	1.78	2.26	2.77	3.36	4.07	5.03	6.58	8.06
Sep	3.27	3.27	4.80	1958	21	7.91	1988	.37	1998	6.9	5.1	2.2	.9	.43	.69	1.16	1.61	2.09	2.62	3.23	3.99	5.01	6.69	8.31
Oct	3.56	3.38	3.94	1984	7	11.30	1984	.44	1978	5.8	4.7	2.5	1.3	.67	.99	1.51	1.99	2.48	3.01	3.61	4.34	5.30	6.84	8.31
Nov	5.60	5.25	5.80	1948	19	12.24	1973	1.07	1971	8.6	6.8	3.7	1.9	1.45	1.98	2.79	3.51	4.22	4.96	5.79	6.77	8.05	10.06	11.95
Dec	6.08	4.95	6.15	1982	26	18.82	1982	.44	1980	9.6	7.8	3.9	2.0	1.30	1.86	2.75	3.56	4.37	5.24	6.22	7.39	8.93	11.40	13.73
Ann	58.36	56.35	6.15	Dec 1982	26	18.82	Dec 1982	.09	Aug 2000	97.8	78.8	39.3	19.7	39.41	43.00	47.65	51.21	54.38	57.47	60.67	64.22	68.55	74.87	80.36

⁺ Also occurred on an earlier date(s)

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[#] 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

Climatography of the United States No. 20 1971-2000

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COOP ID: 229400

Station: WATER VALLEY 1 NNE, MS

Climate Division: MS 2 NWS Call Sign: Elevation: 376 Feet Lat: 34°10N Lon: 89°38W

		Fall Depth Depth Depth Spow Year Day Monthly Year Spow Year Day Mean Year																					
						Sn	ow To	tals									Mea	n Nu	mber	of Day	VS (1)		
	Mean	s/Medi	ians (1))					Extre	mes (2)							ow Fa					Depth esholo	
Month	Snow Fall Mean	Fall	Depth	Depth	Daily Snow	Year	Day	Monthly Snow	Year	Daily Snow	Year	Day	Monthly Mean Snow	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	1.5	.6	#	#	5.0	1988	7	5.5+	2000	5+	2000	28	1	1988	.6	.6	.3	@	.0	.8	.2	.1	.0
Feb	1.0	.0	#	0	5.0	1971	8	8.0	1985	4	1985	2	1	1996	.6	.3	.2	@	.0	.9	.1	.0	.0
Mar	.1	.0	#	0	2.0	1984	10	2.0	1984	2	1984	10	#+	1999	.1	.1	.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	#	1993	30	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.1	.0	#	0	1.0	1975	23	1.5	1976	1+	1991	8	#+	1991	.2	.1	.0	.0	.0	.1	.0	.0	.0
Dec	.3	.0	#	0	2.0	1982	12	2.5	1983	2	1983	17	#+	2000	.3	.2	.0	.0	.0	.2	.0	.0	.0
Ann	3.0	.6	N/A	N/A	5.0+	Jan 1988	7	8.0	Feb 1985	5+	Jan 2000	28	1+	Feb 1996	1.8	1.3	.5	@	.0	2.0	.3	.1	.0

⁺ Also occurred on an earlier date(s) #Denotes trace amounts

- (1) Derived from Snow Climatology and 1971-2000 daily data
- (2) Derived from 1971-2000 daily data

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[@] 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

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COOP ID: 229400

Lon: 89°38W

Lat: 34°10N

Station: WATER VALLEY 1 NNE, MS

Climate Division: MS 2 NWS Call Signs

NWS Call Sign: Elevation: 376 Feet

				Freez	e Data				
			Spri	ng Freeze D	ates (Month/	Day)			
Temp (F)		P	robability of	later date i	n spring (thr	u Jul 31) tha	n indicated((*)	
Temp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	4/25	4/22	4/19	4/16	4/14	4/12	4/10	4/07	4/03
32	4/18	4/14	4/11	4/09	4/06	4/04	4/02	3/30	3/26
28	4/08	4/02	3/28	3/24	3/21	3/17	3/14	3/09	3/03
24	3/23	3/16	3/10	3/06	3/01	2/25	2/20	2/15	2/07
20	3/14	3/06	3/01	2/24	2/19	2/14	2/10	2/04	1/27
16	3/04	2/22	2/15	2/09	2/04	1/29	1/22	1/12	0/00
-			Fal	ll Freeze Da	tes (Month/D	ay)	•		-
Tomp (F)		Pro	bability of ea	arlier date i	n fall (beginn	ing Aug 1) t	han indicate	d(*)	
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	10/05	10/10	10/13	10/16	10/18	10/21	10/24	10/27	11/01
32	10/14	10/20	10/24	10/27	10/30	11/03	11/06	11/10	11/16
28	10/25	10/31	11/04	11/08	11/11	11/14	11/18	11/22	11/28
24	11/03	11/10	11/15	11/20	11/24	11/28	12/02	12/07	12/14
20	11/17	11/26	12/02	12/08	12/13	12/18	12/24	12/30	1/08
16	12/01	12/10	12/17	12/23	12/28	1/03	1/10	1/19	0/00
				Freeze F	ree Period				
Tomp (F)			Probability	of longer th	an indicated	freeze free p	eriod (Days)		
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	198	194	191	189	186	184	182	179	175
32	224	218	214	210	206	203	199	195	188
28	259	250	244	239	234	230	225	219	210
24	295	285	278	272	267	261	255	248	238
20	321	311	304	299	294	289	283	277	268
16	>365	>365	351	336	326	318	309	299	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.

Complete documentation available from:

Climate Division: MS 2

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COOP ID: 229400

Station: WATER VALLEY 1 NNE, MS

NWS Call Sign:

Elevation: 376 Feet Lat: 34°10N Lon: 89°38W

				Deg	ree Days to	o Selected	Base Tem	peratures	(°F)				
Base						Heatin	g Degree l	Days (1)					
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	783	584	386	166	45	1	0	0	16	157	408	689	3235
60	637	450	252	79	13	0	0	0	3	75	275	543	2327
57	549	372	186	43	5	0	0	0	1	43	206	457	1862
55	492	322	148	27	2	0	0	0	0	28	166	402	1587
50	360	211	73	6	0	0	0	0	0	7	87	280	1024
32	62	15	0	0	0	0	0	0	0	0	1	33	111

Base						Coolin	g Degree l	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	301	354	645	862	1147	1340	1497	1466	1239	926	588	367	10732
55	19	17	80	198	436	650	784	753	549	241	63	24	3814
57	14	11	56	155	377	590	722	691	490	194	43	17	3360
60	8	6	29	101	292	500	629	598	402	134	22	10	2731
65	0	0	8	38	169	350	474	443	265	60	5	0	1812
70	0	0	0	10	80	207	319	291	151	20	0	0	1078

										Gro	wing	Degre	e Uni	ts (2)										
Base					Growing	g Degree	Units (M	(Ionthly)								Growi	ng Degre	ee Units (Accumu	lated Mo	nthly)			•
	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														349	762	1376	2265	3360	4606	5825	6835	7526	7904	8091
45	75	127	283	466	734	945	1091	1064	860	537	252	109	75	202	485	951	1685	2630	3721	4785	5645	6182	6434	6543
50	38	67	176	332	579	795	936	909	710	392	158	60	38	105	281	613	1192	1987	2923	3832	4542	4934	5092	5152
55	16	30	94	210	424	645	781	754	560	256	88	28	16	46	140	350	774	1419	2200	2954	3514	3770	3858	3886
60	0	7	42	116	280	495	626	599	415	149	42	5	0	7	49	165	445	940	1566	2165	2580	2729	2771	2776
Base	Base Growing Degree Units for Corn (Monthly)														Gr	owing D	egree Un	its for C	orn (Acc	umulate	d Month	ly)		
50/86	94	150	272	400	587	754	859	830	676	462	248	125	94	244	516	916	1503	2257	3116	3946	4622	5084	5332	5457

(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

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

- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. Freeze Data Table

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

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