

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: INDEPENDENCE 1 W, MS

1971-2000

COOP ID: 224377

Climate Division: MS 2

NWS Call Sign:

Elevation: 345 Feet

Lat: 34°42N

Lon: 89°49W

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	47.8	29.1	38.5	77	1972	25	45.1	1990	-8	1985	21	27.3	1977	824	0	.0	.0	14.1	3.7	19.9	.2
Feb	53.5	32.3	42.9	80+	1981	28	51.2	1976	-1	1996	4	32.2	1978	619	0	.0	.0	17.1	1.9	15.3	@
Mar	62.4	40.6	51.5	84+	1963	30	57.9	1974	11	1996	9	45.8	1996	423	5	.0	.0	26.6	.3	7.9	.0
Apr	71.7	48.1	59.9	93	1987	22	67.0	1981	24	1989	11	52.7	1983	196	43	.0	.1	29.3	.0	1.5	.0
May	79.5	57.3	68.4	97+	1962	26	73.8	1977	35	1976	4	63.1	1976	51	157	.0	1.5	31.0	.0	.0	.0
Jun	87.2	65.5	76.4	101	1988	30	80.4	1998	45+	1966	1	70.9	1982	2	343	.2	9.3	30.0	.0	.0	.0
Jul	91.1	69.3	80.2	105+	1980	14	86.0	1980	53	1984	20	77.2	1982	0	470	.5	17.6	31.0	.0	.0	.0
Aug	90.3	67.2	78.8	106	2000	31	84.4	1980	50+	1986	29	73.4	1992	1	426	.5	15.8	31.0	.0	.0	.0
Sep	84.4	60.5	72.5	104	2000	1	77.0	1980	36+	2001	26	67.1	1974	22	245	.2	6.9	30.0	.0	.0	.0
Oct	74.1	48.0	61.1	93	1998	1	67.6	1971	23+	1981	24	55.8	1987	172	49	.0	.3	30.8	.0	1.4	.0
Nov	61.6	39.7	50.7	86	2000	1	59.1	1985	14+	1970	24	42.8	1976	438	7	.0	.0	24.8	.1	9.0	.0
Dec	51.5	32.3	41.9	77	1998	5	50.2	1971	-5+	1989	22	31.1	1989	717	0	.0	.0	18.0	2.1	16.6	.2
Ann	71.3	49.2	60.2	106	Aug 2000	31	86.0	Jul 1980	-8	Jan 1985	21	27.3	Jan 1977	3465	1745	1.4	51.5	313.7	8.1	71.6	.4

+ 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: 1957-2001

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

029-A

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Station: INDEPENDENCE 1 W, MS

COOP ID: 224377

Climate Division: MS 2

NWS Call Sign:

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Lat: 34°42N

Lon: 89°49W

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	4.43	3.99	3.82	1974	11	10.76	1974	.66	1986	9.5	7.5	3.3	1.3	1.21	1.63	2.27	2.83	3.37	3.95	4.58	5.33	6.31	7.84	9.28
Feb	4.00	3.93	4.60	1966	10	9.35	1990	.86	1980	7.5	6.2	2.8	1.1	1.03	1.40	1.99	2.50	3.00	3.54	4.13	4.83	5.75	7.20	8.56
Mar	5.17	4.90	4.11	1992	10	10.90	1980	2.10	1985	9.8	8.0	3.6	1.4	2.25	2.72	3.37	3.89	4.39	4.89	5.42	6.04	6.81	7.99	9.06
Apr	4.90	4.63	6.04	1969	10	16.15	1991	1.64	1989	8.5	6.5	3.4	1.6	1.45	1.92	2.61	3.22	3.80	4.41	5.09	5.88	6.90	8.51	9.99
May	5.45	4.60	4.13	1978	7	11.97	1984	1.33	1988	9.3	7.7	3.6	1.7	1.66	2.18	2.95	3.61	4.26	4.93	5.66	6.53	7.65	9.40	11.01
Jun	4.80	4.36	4.59	1997	17	11.03	1997	.00	1988	8.0	6.3	3.0	1.5	.90	1.56	2.37	3.03	3.66	4.31	5.03	5.88	6.98	8.70	10.30
Jul	3.88	3.56	5.68	1989	2	9.44	1989	.63	2000	7.3	5.7	2.8	1.1	.61	.94	1.51	2.04	2.59	3.20	3.89	4.73	5.87	7.70	9.46
Aug	3.04	2.60	5.07	1993	6	9.18	1993	.43	2000	6.3	4.5	1.9	.8	.39	.63	1.06	1.49	1.93	2.43	3.01	3.72	4.68	6.26	7.79
Sep	3.43	3.43	4.33	1997	24	7.42	1996	.32	1982	6.8	5.0	2.4	1.0	.80	1.12	1.62	2.07	2.52	2.99	3.52	4.16	4.99	6.31	7.55
Oct	3.09	2.62	4.11	2001	12	9.20	1984	.02	2000	6.0	4.5	2.4	1.1	.49	.76	1.21	1.63	2.07	2.55	3.10	3.77	4.67	6.12	7.51
Nov	4.87	4.02	6.60	1968	28	10.18	1973	1.63+	1998	8.7	6.5	3.5	1.6	1.52	1.98	2.67	3.26	3.83	4.42	5.07	5.83	6.81	8.33	9.74
Dec	5.09	4.28	4.85	1978	4	13.65	1982	.67	1980	9.2	7.4	3.4	1.5	1.20	1.67	2.42	3.08	3.74	4.44	5.23	6.16	7.39	9.34	11.17
Ann	52.15	52.43	6.60	Nov 1968	28	16.15	Apr 1991	.00	Jun 1988	96.9	75.8	36.1	15.7	37.91	40.68	44.23	46.91	49.29	51.58	53.95	56.55	59.71	64.27	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: 1957-2001

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

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Station: INDEPENDENCE 1 W, MS

COOP ID: 224377

Climate Division: MS 2

NWS Call Sign:

Elevation: 345 Feet

Lat: 34° 42N

Lon: 89° 49W

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	1.2	.0	#	0	10.0	1988	7	11.0	1988	8	1985	4	2	1985	.4	.4	.1	.1	.1	.1	.0	.0	.0
Feb	1.0	.0	#	0	5.0	1988	12	5.0+	1988	3	1985	2	#+	1996	.3	.3	.1	.1	.0	.2	.0	.0	.0
Mar	.2	.0	0	0	2.0	1984	10	2.0	1984	0	0	0	0	0	.1	.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	0	1.0	1991	8	1.0	1991	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	2.0	1998	24	3.0	1998	2	1998	24	#+	2000	.1	.1	.0	.0	.0	.1	.0	.0	.0
Ann	2.6	.0	N/A	N/A	10.0	Jan 1988	7	11.0	Jan 1988	8	Jan 1985	4	2	Jan 1985	1.0	1.0	.2	.2	.1	.4	.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:

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

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No. 20
1971-2000**

Station: INDEPENDENCE 1 W, MS

COOP ID: 224377

Climate Division: MS 2

NWS Call Sign:

Elevation: 345 Feet

Lat: 34° 42N

Lon: 89° 49W

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	4/25	4/20	4/17	4/13	4/11	4/08	4/05	4/01	3/27
32	4/16	4/11	4/08	4/05	4/02	3/30	3/27	3/24	3/19
28	4/06	3/31	3/26	3/22	3/18	3/15	3/11	3/06	2/27
24	3/20	3/13	3/08	3/03	2/27	2/23	2/18	2/13	2/05
20	3/07	3/01	2/24	2/20	2/17	2/13	2/09	2/05	1/30
16	3/08	2/24	2/16	2/08	2/01	1/25	1/17	1/07	12/19
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	10/13	10/16	10/18	10/20	10/23	10/27
32	10/15	10/20	10/24	10/27	10/30	11/02	11/05	11/09	11/14
28	10/23	10/29	11/02	11/06	11/10	11/13	11/17	11/21	11/27
24	11/04	11/12	11/17	11/22	11/26	12/01	12/05	12/11	12/18
20	11/15	11/23	11/29	12/03	12/08	12/12	12/17	12/23	12/31
16	11/29	12/10	12/19	12/26	1/01	1/08	1/16	1/26	2/13
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	204	198	194	191	187	184	181	177	171
32	232	225	219	215	210	206	201	196	188
28	265	255	247	241	235	230	223	216	206
24	301	291	284	278	272	266	260	253	243
20	324	313	306	299	293	287	281	273	263
16	>365	>365	>365	339	327	317	308	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.

Derived from 1971-2000 serially complete daily data

Complete documentation available from:

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Station: INDEPENDENCE 1 W, MS

COOP ID: 224377

Climate Division: MS 2 NWS Call Sign: Elevation: 345 Feet Lat: 34°42N Lon: 89°49W

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	824	619	423	196	51	2	0	1	22	172	438	717	3465
60	676	485	285	106	15	0	0	0	5	85	305	570	2532
57	588	407	213	66	6	0	0	0	1	50	235	483	2049
55	530	356	172	45	3	0	0	0	0	33	194	427	1760
50	394	243	89	14	0	0	0	0	0	9	111	301	1161
32	76	24	1	0	0	0	0	0	0	0	3	38	142

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	275	330	605	837	1129	1331	1493	1448	1213	900	562	345	10468
55	16	18	63	192	419	641	780	735	523	220	63	21	3691
57	11	12	43	153	360	581	718	673	464	175	44	15	3249
60	7	7	22	103	276	491	625	580	378	117	24	8	2638
65	0	0	5	43	157	343	470	426	245	49	7	0	1745
70	0	0	0	14	72	206	315	277	137	15	0	0	1036

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	118	192	379	602	881	1082	1231	1191	968	657	342	169	118	310	689	1291	2172	3254	4485	5676	6644	7301	7643	7812
45	65	112	256	455	726	932	1076	1036	818	503	228	94	65	177	433	888	1614	2546	3622	4658	5476	5979	6207	6301
50	30	59	156	319	571	782	921	881	668	359	140	45	30	89	245	564	1135	1917	2838	3719	4387	4746	4886	4931
55	11	23	84	201	416	632	766	726	519	230	77	17	11	34	118	319	735	1367	2133	2859	3378	3608	3685	3702
60	0	2	33	113	274	483	611	571	376	129	34	1	0	2	35	148	422	905	1516	2087	2463	2592	2626	2627
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	68	120	228	376	579	748	849	815	653	426	210	95	68	188	416	792	1371	2119	2968	3783	4436	4862	5072	5167

(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 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.

- | | |
|---|---|
| <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