

Climatology of the United States

No. 20

1971-2000

Station: OAKLEY EXP STA, MS

COOP ID: 226476

Climate Division: MS 7

NWS Call Sign:

Elevation: 205 Feet

Lat: 32° 12N

Lon: 90° 31W

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	55.6	33.8	44.7	80+	1972	25	51.5	1974	2	1985	21	34.2	1977	637	0	.0	.0	21.3	1.1	15.6	.0
Feb	60.7	37.2	49.0	85	1986	21	55.4	1976	9	1996	4	38.4	1978	451	2	.0	.0	22.5	.6	10.3	.0
Mar	68.5	44.7	56.6	88+	1974	30	61.9	1985	12	1996	9	51.5	1996	276	16	.0	.0	29.0	.0	3.6	.0
Apr	75.5	51.1	63.3	91+	1987	22	69.3	1981	27+	1987	4	58.7	1997	112	61	.0	.2	30.0	.0	.6	.0
May	82.7	60.3	71.5	95+	1977	31	75.5	1996	39	1992	7	66.3	1976	17	219	.0	3.2	31.0	.0	.0	.0
Jun	89.1	66.9	78.0	101	1978	29	81.2	1998	48+	1984	1	74.0	1974	0	391	.1	16.0	30.0	.0	.0	.0
Jul	92.0	70.0	81.0	105	2000	18	84.7	1998	55	1972	7	78.3	1994	0	497	1.0	24.0	31.0	.0	.0	.0
Aug	91.9	68.5	80.2	110	2000	31	85.4	2000	50	1989	10	76.8	1992	0	470	1.3	22.7	31.0	.0	.0	.0
Sep	87.2	62.7	75.0	109	2000	1	80.9	1998	37+	1983	22	69.6	1974	8	306	.3	13.2	30.0	.0	.0	.0
Oct	78.0	50.3	64.2	96+	1998	1	69.9	1984	27+	1989	20	57.6	1976	116	89	.0	1.2	30.9	.0	.7	.0
Nov	67.2	42.2	54.7	88	1998	1	61.7	1985	17	1976	30	45.8	1976	328	19	.0	.0	28.3	@	6.4	.0
Dec	58.6	36.1	47.4	83	1982	3	57.5	1984	1	1989	23	38.7	1989	553	7	.0	.0	23.9	.5	13.3	.0
Ann	75.6	52.0	63.8	110	Aug 2000	31	85.4	Aug 2000	1	Dec 1989	23	34.2	Jan 1977	2498	2077	2.7	80.5	338.9	2.2	50.5	.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: 1948-2001

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

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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

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COOP ID: 226476

Climate Division: MS 7

NWS Call Sign:

Elevation: 205 Feet

Lat: 32°12N

Lon: 90°31W

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	6.24	5.57	6.20	1979	20	14.30	1979	1.06	1986	11.7	7.9	4.1	1.9	1.60	2.19	3.09	3.89	4.68	5.51	6.44	7.53	8.96	11.22	13.34
Feb	4.80	4.13	4.95	1975	16	10.34	1987	1.28	2000	9.1	5.9	3.4	1.7	1.38	1.84	2.52	3.12	3.70	4.31	4.98	5.77	6.79	8.40	9.89
Mar	6.36	6.26	4.76	1991	29	15.52	1976	2.07	1978	9.7	7.1	4.2	2.2	2.55	3.14	3.97	4.65	5.29	5.95	6.66	7.48	8.51	10.10	11.54
Apr	5.94	4.40	6.42	1980	12	17.54	1991	1.09	1981	7.9	5.7	3.5	2.2	1.00	1.52	2.38	3.20	4.03	4.94	5.98	7.24	8.93	11.66	14.27
May	4.81	4.86	4.34	1967	22	10.41	1983	.10	1998	9.3	6.8	3.1	1.6	.62	1.00	1.69	2.36	3.07	3.85	4.76	5.88	7.40	9.89	12.30
Jun	4.67	4.28	4.18	1958	16	12.59	1987	1.03	1988	9.0	6.5	3.0	1.5	.97	1.40	2.09	2.71	3.34	4.01	4.77	5.68	6.88	8.80	10.62
Jul	3.84	3.15	7.20	2001	27	10.72	1989	.52	1997	9.3	6.4	2.8	.9	.98	1.34	1.90	2.39	2.88	3.39	3.96	4.64	5.53	6.93	8.24
Aug	3.77	3.16	4.55	1992	27	8.99	1992	.66	2000	7.9	5.5	2.2	1.2	.87	1.22	1.77	2.26	2.76	3.28	3.87	4.57	5.49	6.95	8.33
Sep	3.02	3.09	2.97	1974	26	5.72	1973	.62	1984	7.4	4.7	1.8	.8	.85	1.13	1.57	1.94	2.31	2.70	3.13	3.63	4.29	5.32	6.28
Oct	3.46	2.40	4.04	1984	21	11.18	1984	.09	1978	6.3	4.3	2.3	1.1	.30	.54	1.00	1.48	2.00	2.60	3.32	4.22	5.46	7.53	9.57
Nov	5.15	4.74	6.17	1964	28	10.49	1977	1.27	1981	8.7	6.3	3.5	1.7	1.56	2.05	2.78	3.41	4.02	4.66	5.35	6.17	7.23	8.89	10.42
Dec	5.39	4.60	4.80	1997	24	12.51	1982	.97	1980	10.2	7.0	3.5	1.6	1.76	2.27	3.03	3.67	4.28	4.92	5.62	6.43	7.48	9.11	10.62
Ann	57.45	57.10	7.20	Jul 2001	27	17.54	Apr 1991	.09	Oct 1978	106.5	74.1	37.4	18.4	43.53	46.29	49.79	52.42	54.74	56.97	59.26	61.78	64.81	69.18	72.93

+ 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

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NWS Call Sign:

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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	.8	.0	#	0	4.5	1982	14	4.5	1982	5	1982	14	#+	1982	.4	.2	.2	.0	.0	.2	.1	@	.0
Feb	.0	.0	#	0	.3	1985	1	.3+	1985	#	1989	7	#	1989	.1	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1978	4	#+	1978	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1987	3	#	1987	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	.1	1976	29	.1	1976	#	1976	29	#	1976	.1	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.2	1973	21	.2	1973	#	1973	21	#	1973	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.8	.0	N/A	N/A	4.5	Jan 1982	14	4.5	Jan 1982	5	Jan 1982	14	#+	Feb 1989	.7	.2	.2	.0	.0	.2	.1	@	.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	4/19	4/14	4/11	4/08	4/05	4/02	3/30	3/27	3/22
32	4/10	4/04	3/30	3/26	3/23	3/19	3/15	3/11	3/05
28	3/25	3/18	3/13	3/09	3/05	3/01	2/24	2/19	2/12
24	3/10	3/02	2/24	2/19	2/14	2/09	2/04	1/29	1/21
20	3/02	2/20	2/13	2/06	1/31	1/25	1/18	1/08	0/00
16	2/16	2/05	1/26	1/17	1/06	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	10/09	10/14	10/18	10/21	10/23	10/26	10/29	11/02	11/07
32	10/21	10/27	10/31	11/03	11/06	11/10	11/13	11/17	11/23
28	11/01	11/07	11/11	11/15	11/18	11/22	11/26	11/30	12/06
24	11/09	11/19	11/26	12/01	12/07	12/13	12/19	12/26	1/04
20	11/20	12/03	12/11	12/19	12/26	1/03	1/12	1/24	0/00
16	12/13	12/23	1/01	1/09	1/20	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	217	211	207	204	201	197	194	190	184
32	256	246	239	233	228	222	216	209	200
28	285	276	269	263	258	253	247	240	231
24	327	314	306	299	293	287	280	272	262
20	>365	>365	>365	340	326	316	307	297	285
16	>365	>365	>365	>365	>365	>365	>365	341	316

* 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

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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	637	451	276	112	17	0	0	0	8	116	328	553	2498
60	491	323	159	43	3	0	0	0	1	51	211	410	1692
57	409	252	106	20	1	0	0	0	0	27	155	330	1300
55	358	209	77	11	0	0	0	0	0	17	123	282	1077
50	246	124	27	1	0	0	0	0	0	4	59	182	643
32	26	3	0	0	0	0	0	0	0	0	0	11	40

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	419	478	763	940	1225	1381	1520	1493	1288	996	681	488	11672
55	38	40	126	260	512	691	807	780	598	299	114	46	4311
57	27	26	93	209	451	631	745	718	538	248	86	32	3804
60	17	14	53	143	360	541	652	625	449	179	52	18	3103
65	0	2	16	61	219	391	497	470	306	89	19	7	2077
70	0	0	2	17	109	244	342	316	181	34	5	0	1250

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	228	316	537	717	994	1156	1290	1260	1062	759	459	284	228	544	1081	1798	2792	3948	5238	6498	7560	8319	8778	9062
45	141	207	392	568	839	1006	1135	1105	912	604	330	179	141	348	740	1308	2147	3153	4288	5393	6305	6909	7239	7418
50	79	129	268	423	684	856	980	950	762	454	215	108	79	208	476	899	1583	2439	3419	4369	5131	5585	5800	5908
55	40	63	155	285	529	706	825	795	612	310	129	58	40	103	258	543	1072	1778	2603	3398	4010	4320	4449	4507
60	14	24	80	170	377	556	670	640	464	193	63	28	14	38	118	288	665	1221	1891	2531	2995	3188	3251	3279
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	146	201	336	460	675	798	882	854	716	506	300	184	146	347	683	1143	1818	2616	3498	4352	5068	5574	5874	6058

(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