

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: OBERLIN FIRE TOWER, LA

1971-2000

COOP ID: 166938

Climate Division: LA 7

NWS Call Sign:

Elevation: 65 Feet

Lat: 30° 36N

Lon: 92° 47W

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	59.6	41.2	50.4	82+	1972	14	56.9	1999	9	1962	12	41.6	1978	467	5	.0	.0	24.4	.3	8.0	.0
Feb	64.9	44.4	54.7	85+	1956	27	60.5	2000	16	1996	3	44.8	1978	301	12	.0	.0	24.8	.3	4.7	.0
Mar	72.2	51.0	61.6	89	1967	15	66.5	1974	21	1980	3	56.8	1996	151	45	.0	.0	30.2	.0	1.0	.0
Apr	79.2	56.6	67.9	93+	1954	7	72.9	1981	31	1987	5	63.6	1983	38	125	.0	.3	30.0	.0	.1	.0
May	85.8	64.5	75.2	97	1998	31	78.3	1998	43+	1960	13	71.7	1976	1	316	.0	3.6	31.0	.0	.0	.0
Jun	90.7	70.2	80.5	100	1998	26	84.3	1998	51	1956	4	78.0	1976	0	463	@	16.3	30.0	.0	.0	.0
Jul	92.4	72.6	82.5	102+	1954	14	85.8	1998	56	1967	15	80.4	1972	0	543	.5	23.8	31.0	.0	.0	.0
Aug	92.8	72.1	82.5	106+	1962	8	85.8	1999	56	1956	23	79.0	1992	0	540	.8	24.1	31.0	.0	.0	.0
Sep	88.1	67.6	77.9	108+	2000	1	82.2	1980	40+	1967	29	74.8	1975	0	387	.3	13.5	30.0	.0	.0	.0
Oct	79.9	57.4	68.7	96	1954	1	73.2	1984	28	1993	31	61.4	1976	41	154	.0	2.3	31.0	.0	.1	.0
Nov	69.8	49.4	59.6	90	1971	3	65.9	1973	20	1976	30	52.1	1976	208	47	.0	@	29.2	.0	1.7	.0
Dec	62.0	43.0	52.5	83	1970	6	61.5	1984	8	1989	23	43.6	1989	402	14	.0	.0	26.7	.2	6.3	.0
Ann	78.1	57.5	67.8	108+	Sep 2000	1	85.8+	Aug 1999	8	Dec 1989	23	41.6	Jan 1978	1609	2651	1.6	83.9	349.3	.8	21.9	.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: 1952-2001

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

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Precipitation (inches)

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	6.74	5.60	5.00	1959	30	14.51	1991	1.16	2000	12.0	8.4	4.2	2.2	1.86	2.50	3.47	4.31	5.15	6.01	6.98	8.12	9.60	11.92	14.09
Feb	4.57	4.03	8.51	1955	5	10.44	1979	.35	2000	9.1	6.3	3.2	1.5	.81	1.22	1.88	2.51	3.14	3.83	4.62	5.57	6.84	8.88	10.83
Mar	5.48	4.79	6.71	1973	24	15.07	1980	1.78	1986	9.3	6.3	3.3	1.8	1.48	2.00	2.79	3.48	4.16	4.88	5.67	6.61	7.83	9.75	11.54
Apr	4.79	3.54	11.43	1995	11	14.30	1995	.37	1987	7.7	5.4	2.7	1.5	.68	1.08	1.76	2.43	3.12	3.89	4.77	5.85	7.31	9.69	11.98
May	6.78	6.12	10.95	1955	20	15.14	1991	.00	1998	9.0	6.7	3.8	2.2	1.53	2.49	3.62	4.51	5.36	6.23	7.17	8.27	9.69	11.88	13.91
Jun	6.20	5.63	6.98	1989	27	20.38	1989	1.09	1998	10.5	8.0	3.5	2.1	1.09	1.64	2.54	3.39	4.26	5.20	6.27	7.57	9.29	12.09	14.75
Jul	5.44	4.98	6.28	1979	25	12.17	1979	1.71	1993	11.3	8.1	3.8	1.9	1.92	2.43	3.18	3.80	4.40	5.01	5.68	6.46	7.45	8.99	10.40
Aug	4.57	4.68	3.88	1962	29	8.73	1974	.23	1999	10.1	7.3	3.0	1.4	.99	1.41	2.08	2.69	3.30	3.95	4.68	5.56	6.71	8.56	10.30
Sep	5.89	5.14	12.85	1979	20	15.67	1979	1.44	1989	9.6	7.3	3.2	1.4	1.51	2.06	2.92	3.68	4.42	5.21	6.08	7.12	8.47	10.61	12.62
Oct	4.75	3.62	7.75	1970	12	18.22	1985	.48	1978	6.7	4.9	2.8	1.6	.65	1.04	1.72	2.38	3.08	3.84	4.72	5.80	7.27	9.66	11.96
Nov	5.52	5.03	4.80	1997	29	12.34	1977	.64	1999	9.3	6.9	3.5	1.7	1.81	2.34	3.11	3.76	4.39	5.04	5.75	6.59	7.66	9.32	10.85
Dec	6.17	6.20	6.40	1983	11	13.31	1971	2.66	1980	10.9	7.4	3.5	1.9	2.40	2.97	3.79	4.47	5.11	5.76	6.46	7.28	8.31	9.90	11.35
Ann	66.90	66.35	12.85	Sep 1979	20	20.38	Jun 1989	.00	May 1998	115.5	83.0	40.5	21.2	48.00	51.68	56.37	59.93	63.09	66.15	69.30	72.78	76.99	83.10	88.38

+ 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: 1952-2001

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

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Station: OBERLIN FIRE TOWER, LA

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Climate Division: LA 7

NWS Call Sign:

Elevation: 65 Feet

Lat: 30°36N

Lon: 92°47W

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	#	.0	#	0	#	1982	14	#	1982	#	1982	14	#	1982	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	#	0	#	1988	8	#	1988	#	1988	6	#	1988	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.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	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	#+	Feb 1988	8	#+	Feb 1988	#+	Feb 1988	6	#+	Feb 1988	.0	.0	.0	.0	.0	.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

Complete documentation available from:

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Climate Division: LA 7

NWS Call Sign:

Elevation: 65 Feet

Lat: 30°36N

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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	4/07	3/30	3/24	3/19	3/15	3/10	3/06	2/28	2/20
32	3/24	3/15	3/09	3/03	2/26	2/21	2/16	2/10	2/01
28	3/08	2/26	2/19	2/13	2/07	2/01	1/26	1/18	1/06
24	2/23	2/12	2/05	1/29	1/22	1/15	1/04	0/00	0/00
20	2/01	1/19	1/07	12/19	0/00	0/00	0/00	0/00	0/00
16	1/12	0/00	0/00	0/00	0/00	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	10/29	11/03	11/07	11/10	11/14	11/17	11/20	11/24	11/29
32	11/03	11/11	11/17	11/22	11/26	12/01	12/06	12/12	12/20
28	11/21	11/29	12/04	12/09	12/13	12/18	12/23	12/29	1/07
24	12/08	12/18	12/26	1/03	1/10	1/19	2/01	0/00	0/00
20	12/21	1/04	1/18	2/07	0/00	0/00	0/00	0/00	0/00
16	1/10	0/00	0/00	0/00	0/00	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	271	262	254	248	243	237	231	224	214
32	304	293	285	278	272	266	259	252	241
28	352	333	323	315	308	301	293	285	273
24	>365	>365	>365	>365	353	337	326	316	303
20	>365	>365	>365	>365	>365	>365	>365	>365	336
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

* 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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COOP ID: 166938

Climate Division: LA 7 NWS Call Sign: Elevation: 65 Feet Lat: 30°36N Lon: 92°47W

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	467	301	151	38	1	0	0	0	0	41	208	402	1609
60	333	188	68	8	0	0	0	0	0	11	119	271	998
57	263	135	35	2	0	0	0	0	0	4	78	205	722
55	223	106	21	1	0	0	0	0	0	2	56	168	577
50	138	47	5	0	0	0	0	0	0	0	21	91	302
32	7	0	0	0	0	0	0	0	0	0	0	0	7

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	578	635	918	1077	1338	1453	1566	1563	1377	1136	829	635	13105
55	80	97	226	388	625	763	853	850	687	425	195	90	5279
57	59	70	178	329	563	703	791	788	627	365	157	65	4695
60	36	39	118	245	470	613	698	695	537	278	108	38	3875
65	5	12	45	125	316	463	543	540	387	154	47	14	2651
70	4	1	11	46	173	313	388	385	242	64	16	2	1645

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	344	423	657	817	1072	1203	1308	1306	1132	890	588	401	344	767	1424	2241	3313	4516	5824	7130	8262	9152	9740	10141
45	226	296	506	667	917	1053	1153	1151	982	735	444	270	226	522	1028	1695	2612	3665	4818	5969	6951	7686	8130	8400
50	135	194	362	518	762	903	998	996	832	581	313	167	135	329	691	1209	1971	2874	3872	4868	5700	6281	6594	6761
55	73	108	235	373	607	753	843	841	682	428	202	96	73	181	416	789	1396	2149	2992	3833	4515	4943	5145	5241
60	30	51	127	237	452	603	688	686	532	285	112	43	30	81	208	445	897	1500	2188	2874	3406	3691	3803	3846
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	201	251	409	535	745	840	904	896	782	590	365	236	201	452	861	1396	2141	2981	3885	4781	5563	6153	6518	6754

(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