

Climatography of the United States

No. 20

1971-2000

Station: FALFURRIAS, TX

COOP ID: 413063

Climate Division: TX 9

NWS Call Sign:

Elevation: 120 Feet Lat: 27°13N Lon: 98°08W

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	67.6	43.9	55.8	96+	1972	23	63.1	2000	9	1962	12	48.5	1977	321	36	.0	.4	27.5	.1	4.0	.0
Feb	72.0	47.2	59.6	102	1940	28	67.4	2000	15	1951	3	51.4	1978	192	40	.0	.9	26.6	.1	2.0	.0
Mar	79.3	54.1	66.7	105+	1954	31	72.4	2000	17	1917	5	61.0	1987	60	113	.2	3.3	30.9	.0	.5	.0
Apr	85.1	60.5	72.8	110+	1963	10	78.4	1999	30	1920	5	67.6	1987	10	243	.4	9.1	30.0	.0	.0	.0
May	89.9	68.1	79.0	110	1925	24	83.9	1998	43	1925	1	74.2	1972	1	436	1.4	17.9	31.0	.0	.0	.0
Jun	94.4	72.3	83.4	115	1998	16	90.4	1998	51	1919	4	79.9	1972	0	551	3.5	25.4	30.0	.0	.0	.0
Jul	97.0	73.2	85.1	112	1925	15	90.0	1998	60+	1915	26	81.5	1976	0	624	9.1	29.0	31.0	.0	.0	.0
Aug	97.0	72.6	84.8	112	1925	13	88.6	1997	60+	1972	29	81.6	1972	0	614	9.5	29.0	31.0	.0	.0	.0
Sep	92.4	69.7	81.1	111+	2000	7	83.8	1982	43	1909	29	76.2	1974	0	482	2.4	22.0	30.0	.0	.0	.0
Oct	85.5	61.7	73.6	101+	1937	6	76.7	1984	28+	1993	31	65.7	1976	7	273	.2	10.3	30.9	.0	@	.0
Nov	76.5	53.1	64.8	97+	1931	11	71.3	1994	20	1911	30	56.0	1976	121	115	.0	1.4	29.4	.0	.7	.0
Dec	69.5	46.1	57.8	97	1972	6	66.0	1984	13	1989	24	47.3	1989	261	37	.0	.3	28.9	.2	2.7	.0
Ann	83.9	60.2	72.0	115	Jun 1998	16	90.4	Jun 1998	9	Jan 1962	12	47.3	Dec 1989	973	3564	26.7	149.0	357.2	.4	9.9	.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: 1907-2001

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

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No. 20 1971-2000

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

Station: FALFURRIAS, TX

COOP ID: 413063

Climate Division: TX 9

NWS Call Sign:

Elevation: 120 Feet Lat: 27°13N

Lon: 98°08W

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	1.12	.81	4.76	1958	5	3.82	1992	.00	1996	5.5	2.8	.6	.2	.05	.15	.32	.48	.66	.86	1.09	1.38	1.77	2.42	3.06
Feb	1.56	1.09	3.78	1982	19	6.23	1982	.00+	1996	5.1	2.8	.9	.4	.00	.05	.23	.45	.70	1.01	1.39	1.88	2.58	3.79	5.00
Mar	.86	.63	2.70	1925	23	2.75	1994	.00+	1989	3.7	1.8	.6	.3	.00	.00	.10	.22	.37	.54	.76	1.04	1.44	2.13	2.83
Apr	1.48	.95	3.98	1946	22	5.43	1979	.00+	1984	4.4	2.5	.9	.3	.00	.04	.21	.41	.65	.94	1.30	1.77	2.45	3.61	4.79
May	2.95	2.67	5.01	2000	3	7.11	1997	.00	1998	5.8	3.8	2.2	.8	.32	.68	1.17	1.59	2.03	2.49	3.01	3.64	4.47	5.81	7.08
Jun	3.25	1.82	4.42	1962	2	12.98	1973	.00	1980	6.2	4.4	2.0	1.1	.08	.28	.70	1.16	1.68	2.28	3.02	3.95	5.26	7.48	9.69
Jul	1.84	1.14	4.52	1934	26	11.57	1976	.00+	1996	4.5	2.7	1.1	.5	.00	.04	.21	.45	.74	1.10	1.57	2.17	3.06	4.61	6.18
Aug	2.91	1.83	7.36	1980	10	12.87	1980	.00	1997	5.3	3.5	1.4	1.0	.03	.14	.45	.82	1.28	1.83	2.53	3.46	4.79	7.10	9.44
Sep	3.84	3.08	10.00	1967	20	12.93	1973	.49	1982	7.2	5.2	2.2	.9	.67	1.01	1.57	2.09	2.63	3.21	3.87	4.68	5.75	7.48	9.14
Oct	3.22	2.25	4.80	1942	5	8.92	2000	.00	1989	5.5	3.5	2.0	1.2	.17	.47	.96	1.43	1.94	2.50	3.15	3.96	5.07	6.89	8.66
Nov	1.31	1.11	3.61	1922	7	5.23	1976	.00+	1994	4.1	2.4	.9	.2	.00	.13	.36	.57	.79	1.02	1.30	1.63	2.09	2.85	3.58
Dec	1.08	.54	2.65	1918	18	4.50	1986	.08	1977	4.7	2.3	.6	.2	.04	.09	.20	.34	.51	.71	.96	1.28	1.75	2.56	3.37
Ann	25.42	24.83	10.00	Sep 1967	20	12.98	Jun 1973	.00+	May 1998	62.0	37.7	15.4	7.1	14.22	16.19	18.82	20.88	22.77	24.63	26.59	28.79	31.53	35.59	39.19

+ 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: 1907-2001

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

Complete documentation available from:
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Station: FALFURRIAS, TX

COOP ID: 413063

Climate Division: TX 9

NWS Call Sign:

Elevation: 120 Feet

Lat: 27°13N

Lon: 98°08W

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	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	.0	N/A	N/A	.0	0	0	.0	0	0	0	0	0	0	.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: TX 9

NWS Call Sign:

Elevation: 120 Feet

Lat: 27° 13N

Lon: 98° 08W

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	3/27	3/17	3/09	3/03	2/25	2/20	2/13	2/06	1/27
32	3/18	3/04	2/22	2/14	2/06	1/29	1/20	1/09	12/24
28	2/20	2/09	1/31	1/24	1/16	1/09	12/31	12/17	0/00
24	2/01	1/18	1/05	12/17	0/00	0/00	0/00	0/00	0/00
20	12/27	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	11/07	11/14	11/20	11/24	11/28	12/02	12/06	12/11	12/18
32	11/19	11/27	12/03	12/08	12/13	12/18	12/24	12/31	1/10
28	12/02	12/12	12/20	12/26	1/02	1/09	1/17	1/29	0/00
24	12/23	1/03	1/15	0/00	0/00	0/00	0/00	0/00	0/00
20	1/02	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	311	298	289	282	275	268	260	251	239
32	364	341	329	319	311	302	294	283	269
28	>365	>365	>365	359	347	339	332	324	314
24	>365	>365	>365	>365	>365	>365	>365	>365	350
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
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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Climate Division: TX 9 NWS Call Sign: Elevation: 120 Feet Lat: 27°13N Lon: 98°08W

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	321	192	60	10	1	0	0	0	0	7	121	261	973
60	213	109	17	0	0	0	0	0	0	1	59	159	558
57	161	70	6	0	0	0	0	0	0	0	34	111	382
55	130	49	3	0	0	0	0	0	0	0	23	83	288
50	64	18	0	0	0	0	0	0	0	0	7	33	122
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	738	772	1076	1223	1458	1541	1647	1637	1472	1290	984	800	14638
55	154	177	366	533	745	851	934	924	782	577	317	169	6529
57	124	142	307	473	683	791	872	862	722	515	268	135	5894
60	82	97	225	383	590	701	779	769	632	423	203	90	4974
65	36	40	113	243	436	551	624	614	482	273	115	37	3564
70	14	13	41	128	290	401	469	459	332	142	52	13	2354

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	510	583	841	993	1221	1312	1408	1401	1239	1053	754	570	510	1093	1934	2927	4148	5460	6868	8269	9508	10561	11315	11885
45	367	446	686	843	1066	1162	1253	1246	1089	899	607	420	367	813	1499	2342	3408	4570	5823	7069	8158	9057	9664	10084
50	248	319	538	693	911	1012	1098	1091	939	745	465	292	248	567	1105	1798	2709	3721	4819	5910	6849	7594	8059	8351
55	151	204	388	545	756	862	943	936	789	590	332	187	151	355	743	1288	2044	2906	3849	4785	5574	6164	6496	6683
60	76	117	255	398	601	712	788	781	639	438	215	104	76	193	448	846	1447	2159	2947	3728	4367	4805	5020	5124
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	319	371	553	662	832	886	929	921	837	710	493	358	319	690	1243	1905	2737	3623	4552	5473	6310	7020	7513	7871

(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