

Climatology of the United States

No. 20

1971-2000

Station: PADUCAH, TX

COOP ID: 416740

Climate Division: TX 2

NWS Call Sign:

Elevation: 1,900 Feet Lat: 34°01N

Lon: 100°18W

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	52.8	26.2	39.5	87	1956	5	46.3	1989	-4	1963	13	28.6	1979	791	0	.0	.0	18.9	3.5	23.8	.0
Feb	58.3	30.7	44.5	93+	1996	23	52.7	1976	-2+	1985	2	32.5	1978	578	0	.0	.1	20.1	1.9	16.1	.1
Mar	67.4	37.8	52.6	102	1989	13	57.6	1974	7+	1980	3	48.4	1996	386	1	.1	1.0	27.7	.3	7.5	.0
Apr	76.4	46.3	61.4	105	1959	25	67.2	1978	24	1997	12	55.5	1997	162	53	.1	3.4	29.4	.0	1.1	.0
May	83.8	56.4	70.1	112	2000	25	77.3	1996	36+	1978	5	65.3	1976	34	193	1.3	8.0	31.0	.0	.0	.0
Jun	91.5	65.2	78.4	118	1994	28	83.5	1990	49+	1983	8	73.9	1982	2	403	3.6	18.4	30.0	.0	.0	.0
Jul	96.8	69.3	83.1	112	1995	29	88.2	1980	57	1990	14	79.4	1976	0	559	9.7	27.0	31.0	.0	.0	.0
Aug	95.1	68.1	81.6	111	1964	6	86.1	1983	54	1961	25	77.2	1971	0	514	7.6	24.7	31.0	.0	.0	.0
Sep	87.0	60.5	73.8	108+	2000	6	80.8	1998	32	1984	30	66.4	1974	16	279	2.0	13.5	30.0	.0	@	.0
Oct	77.1	49.0	63.1	105+	2000	3	66.5	1979	21	1993	31	55.1	1976	117	56	.2	2.9	30.6	@	.7	.0
Nov	63.9	37.0	50.5	90	1980	9	58.2	1999	13+	1991	3	43.5	1972	442	6	.0	@	25.4	.2	9.7	.0
Dec	54.4	28.5	41.5	89	1955	23	45.3	1999	-7+	1989	24	29.3	1983	729	0	.0	.0	20.3	2.1	21.0	.2
Ann	75.4	47.9	61.7	118	Jun 1994	28	88.2	Jul 1980	-7+	Dec 1989	24	28.6	Jan 1979	3257	2064	24.6	99.0	325.4	8.0	79.9	.3

+ 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: 1946-2001

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

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

Station: PADUCAH, TX

COOP ID: 416740

Climate Division: TX 2

NWS Call Sign:

Elevation: 1,900 Feet Lat: 34°01N

Lon: 100°18W

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	.82	.55	1.77	1968	22	2.73	1973	.00+	1986	3.9	2.0	.5	.1	.00	.00	.15	.28	.42	.59	.78	1.02	1.35	1.91	2.46
Feb	1.11	.86	1.95	1964	4	3.41	1987	.00	1991	4.4	2.9	.7	.2	.02	.09	.23	.39	.57	.77	1.03	1.35	1.80	2.57	3.33
Mar	1.31	.76	3.40	2000	22	6.06	2000	.04	1997	4.7	2.7	.7	.2	.08	.16	.33	.50	.70	.94	1.22	1.58	2.08	2.93	3.78
Apr	1.92	1.56	3.21	1997	25	9.56	1997	.00	1996	5.0	3.4	1.2	.6	.05	.17	.42	.69	1.00	1.35	1.78	2.33	3.11	4.41	5.71
May	3.85	3.59	5.95	1959	22	11.30	1982	.13	1988	7.4	5.3	2.6	1.3	.61	.94	1.50	2.03	2.58	3.18	3.86	4.70	5.82	7.65	9.39
Jun	3.67	3.06	6.65	1991	2	10.31	1991	.03	1998	6.9	5.0	2.3	1.0	.28	.52	.99	1.50	2.06	2.71	3.48	4.46	5.81	8.09	10.34
Jul	1.72	1.60	2.34	1975	25	5.81	1975	.01	1980	5.0	3.1	1.1	.5	.10	.19	.40	.63	.90	1.21	1.59	2.08	2.76	3.93	5.09
Aug	2.63	2.34	4.15	1995	2	7.66	1995	.00+	2000	5.9	3.8	1.6	.8	.00	.21	.65	1.06	1.50	1.99	2.57	3.27	4.24	5.86	7.44
Sep	2.96	2.74	3.05	2001	21	8.62	1991	.03	1979	6.2	4.4	2.0	1.0	.12	.26	.59	.97	1.43	1.97	2.65	3.54	4.80	6.98	9.17
Oct	2.06	1.50	5.30	1983	20	10.98	1983	.00	1992	5.6	3.4	1.4	.4	.02	.10	.31	.58	.90	1.29	1.79	2.45	3.39	5.04	6.71
Nov	1.08	.91	1.67	1994	5	3.70	1992	.00+	1999	4.0	2.2	.8	.3	.00	.00	.27	.46	.65	.85	1.08	1.37	1.75	2.38	2.98
Dec	.98	.76	2.85	1959	15	4.17	1991	.00+	2000	4.1	2.1	.6	.2	.00	.02	.11	.23	.39	.58	.83	1.16	1.64	2.47	3.33
Ann	24.11	24.45	6.65	Jun 1991	2	11.30	May 1982	.00+	Dec 2000	63.1	40.3	15.5	6.6	15.80	17.36	19.39	20.94	22.34	23.69	25.11	26.68	28.60	31.41	33.86

+ 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: 1946-2001

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

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

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

Station: PADUCAH, TX

COOP ID: 416740

Climate Division: TX 2

NWS Call Sign:

Elevation: 1,900 Feet

Lat: 34°01N

Lon: 100°18W

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	2.7	1.0	#	#	8.5	1983	2	10.5	1983	7	1988	8	3	1988	1.2	1.0	.3	.1	.0	1.7	.5	.2	.0
Feb	1.9	.1	#	#	5.0	1986	10	11.5	1980	5	1986	11	1	1986	1.1	.8	.2	@	.0	1.2	.4	.1	.0
Mar	.3	.0	#	0	4.0	1989	21	5.0	1989	4	1989	21	#+	1998	.2	.1	@	.0	.0	.1	@	.0	.0
Apr	.1	.0	#	0	4.0	1983	5	4.0	1983	4	1983	5	#	1983	@	@	@	.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	1.0	1991	31	1.0	1991	1	1991	31	#+	1993	@	@	.0	.0	.0	@	.0	.0	.0
Nov	1.0	.0	#	0	6.0	1980	17	9.0	1980	5	1980	17	1	1980	.4	.3	.1	.1	.0	.5	.2	@	.0
Dec	1.4	.2	#	#	7.0	1971	3	10.5	1971	8	1971	3	1	1987	.7	.6	.1	@	.0	.7	.2	.1	.0
Ann	7.4	1.3	N/A	N/A	8.5	Jan 1983	2	11.5	Feb 1980	8	Dec 1971	3	3	Jan 1988	3.6	2.8	.7	.2	.0	4.2	1.3	.4	.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

Climatography of the United States

No. 20 1971-2000

Station: PADUCAH, TX

COOP ID: 416740

Climate Division: TX 2

NWS Call Sign:

Elevation: 1,900 Feet

Lat: 34° 01N

Lon: 100° 18W

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	4/21	4/16	4/13	4/11	4/08	4/06	4/03	3/31	3/27
32	4/11	4/06	4/03	3/31	3/29	3/26	3/23	3/20	3/15
28	4/05	3/29	3/24	3/20	3/17	3/13	3/09	3/04	2/26
24	3/26	3/18	3/12	3/07	3/02	2/26	2/21	2/15	2/06
20	3/15	3/05	2/26	2/20	2/15	2/09	2/03	1/27	1/17
16	3/10	2/26	2/17	2/10	2/03	1/27	1/19	1/09	12/26
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	10/06	10/12	10/17	10/21	10/25	10/28	11/01	11/06	11/12
32	10/19	10/25	10/29	11/02	11/05	11/09	11/12	11/17	11/23
28	10/28	11/03	11/08	11/11	11/15	11/18	11/22	11/26	12/02
24	11/07	11/14	11/19	11/23	11/27	12/01	12/06	12/11	12/18
20	11/18	11/26	12/02	12/07	12/11	12/16	12/21	12/27	1/04
16	11/20	12/02	12/10	12/17	12/24	12/31	1/07	1/16	1/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	218	211	206	202	198	195	191	186	179
32	242	235	230	225	221	217	212	207	199
28	266	258	252	247	242	238	233	227	219
24	302	291	283	276	269	263	256	248	236
20	337	322	312	304	297	290	282	273	261
16	>365	359	339	328	319	310	302	293	280

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

**Climatography
of the United States
No. 20
1971-2000**

Station: PADUCAH, TX

COOP ID: 416740

Climate Division: TX 2

NWS Call Sign:

Elevation: 1,900 Feet Lat: 34°01N

Lon: 100°18W

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	791	578	386	162	34	2	0	0	16	117	442	729	3257
60	638	448	244	79	8	0	0	0	3	45	308	575	2348
57	549	372	171	44	3	0	0	0	0	22	237	486	1884
55	492	325	130	28	1	0	0	0	0	12	196	429	1613
50	353	223	56	7	0	0	0	0	0	2	112	294	1047
32	46	24	0	0	0	0	0	0	0	0	3	24	97

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	278	373	639	881	1182	1391	1582	1537	1253	963	557	318	10954
55	11	30	56	219	470	701	869	824	563	262	60	11	4076
57	6	21	35	175	410	641	807	762	503	209	41	5	3615
60	2	13	15	120	322	551	714	669	416	140	22	1	2985
65	0	0	1	53	193	403	559	514	279	56	6	0	2064
70	0	0	0	17	96	265	404	362	166	15	0	0	1325

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	131	222	415	646	937	1154	1333	1286	1014	719	339	159	131	353	768	1414	2351	3505	4838	6124	7138	7857	8196	8355
45	62	136	286	502	782	1004	1178	1131	865	567	225	78	62	198	484	986	1768	2772	3950	5081	5946	6513	6738	6816
50	27	71	175	360	627	854	1023	976	715	421	130	31	27	98	273	633	1260	2114	3137	4113	4828	5249	5379	5410
55	4	32	91	234	476	704	868	821	567	283	63	4	4	36	127	361	837	1541	2409	3230	3797	4080	4143	4147
60	0	9	40	129	327	554	713	666	424	163	24	0	0	9	49	178	505	1059	1772	2438	2862	3025	3049	3049
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	127	177	285	413	597	760	863	833	659	454	234	135	127	304	589	1002	1599	2359	3222	4055	4714	5168	5402	5537

(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