

# Climatography of the United States

No. 20

1971-2000

Station: PARIS, TX

COOP ID: 416794

Climate Division: TX 3

NWS Call Sign:

Elevation: 542 Feet Lat: 33°40N Lon: 95°34W

## 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	51.2	29.9	40.6	90	1911	31	47.4	1990	-5+	1930	19	29.8	1978	757	0	.0	.0	17.5	2.5	18.8	.0
Feb	57.4	34.5	46.0	90+	1996	22	54.3	1999	-2	1903	17	33.1	1978	539	6	.0	@	20.0	1.5	11.0	.0
Mar	65.7	43.0	54.4	94	1916	21	60.1	1974	7+	1943	4	47.6	1996	341	12	.0	.0	28.3	.2	3.5	.0
Apr	74.0	50.6	62.3	95+	1936	13	68.2	1981	25	1920	5	56.8	1983	134	53	.0	.4	29.9	.0	.3	.0
May	81.3	59.9	70.6	100	1998	31	77.0	1998	30+	1900	18	65.9	1976	29	203	@	3.4	31.0	.0	.0	.0
Jun	89.4	67.9	78.7	108+	1936	21	84.5	1998	46	1902	22	74.9	1983	0	409	.7	16.3	30.0	.0	.0	.0
Jul	94.3	71.9	83.1	111	1954	25	91.1	1998	57	1971	31	78.7	1976	0	562	5.3	25.8	31.0	.0	.0	.0
Aug	94.5	70.6	82.6	115	1936	10	88.9	2000	43	1897	16	76.9	1992	0	544	6.3	25.3	31.0	.0	.0	.0
Sep	87.1	63.3	75.2	112+	2000	3	83.1	1998	34	1942	27	66.4	1974	13	320	1.1	13.8	30.0	.0	.0	.0
Oct	76.7	51.9	64.3	99+	1953	1	68.4	1998	19	1917	30	56.8	1976	97	76	.0	1.7	30.8	.0	.2	.0
Nov	63.1	41.4	52.3	94+	1906	10	60.8	1999	15	1911	30	45.5	1976	394	12	.0	.0	26.0	.1	5.3	.0
Dec	54.0	32.9	43.5	87	1933	5	50.5	1984	0	1989	22	31.8	1983	668	0	.0	.0	20.1	1.2	14.2	@
Ann	74.1	51.5	62.8	115	Aug 1936	10	91.1	Jul 1998	-5+	Jan 1930	19	29.8	Jan 1978	2972	2197	13.4	86.7	325.6	5.5	53.3	@

+ 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/normals/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1896-2001

(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: PARIS, TX**

**COOP ID: 416794**

**Climate Division: TX 3**

**NWS Call Sign:**

**Elevation: 542 Feet Lat: 33°40N**

**Lon: 95°34W**

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	2.63	2.65	4.72	1969	30	7.22	1998	.09	1986	8.8	4.8	1.6	.6	.45	.68	1.06	1.42	1.79	2.19	2.65	3.21	3.95	5.16	6.31
Feb	3.00	2.88	4.84	1965	9	9.14	1997	.38	1996	7.1	4.6	2.0	1.0	.56	.83	1.27	1.68	2.09	2.54	3.04	3.65	4.47	5.77	7.02
Mar	4.11	4.10	4.30	1914	27	8.76	1973	.98	1972	8.8	5.9	2.8	1.3	1.24	1.63	2.21	2.72	3.20	3.71	4.27	4.93	5.78	7.11	8.34
Apr	3.56	3.06	5.54	1953	29	8.20	1991	.62	1989	8.6	5.6	2.5	1.0	1.00	1.34	1.85	2.30	2.73	3.19	3.69	4.28	5.05	6.26	7.39
May	5.63	4.81	6.91	1982	13	15.15	1982	1.11	1988	9.7	7.0	3.6	1.9	1.61	2.14	2.95	3.65	4.33	5.05	5.83	6.77	7.97	9.86	11.62
Jun	4.25	3.77	7.61	1928	24	8.78	1989	.62	1971	7.8	5.8	2.7	1.3	.97	1.37	1.99	2.55	3.11	3.70	4.37	5.16	6.20	7.86	9.42
Jul	3.89	2.99	4.55	1989	15	10.12	1976	.00	1993	5.8	4.4	2.4	1.2	.25	.64	1.26	1.83	2.43	3.09	3.86	4.80	6.08	8.16	10.18
Aug	2.39	2.11	3.85	1915	18	5.91	1996	.00	2000	5.5	4.0	1.7	.6	.20	.46	.85	1.20	1.56	1.96	2.40	2.95	3.68	4.87	6.02
Sep	4.42	4.00	6.37	1973	6	14.83	1974	.67	1982	7.7	5.3	2.6	1.4	.66	1.03	1.67	2.29	2.92	3.62	4.42	5.40	6.72	8.87	10.94
Oct	5.04	4.24	6.90	1971	19	14.65	1971	.03	1978	7.6	5.5	2.9	1.5	.27	.54	1.14	1.81	2.59	3.51	4.63	6.07	8.11	11.58	15.04
Nov	4.70	4.43	6.55	1978	16	11.34	2000	.75	1989	7.5	5.3	3.2	1.5	.88	1.30	1.99	2.63	3.27	3.97	4.77	5.72	7.00	9.04	10.99
Dec	4.20	3.37	7.54	1971	10	14.49	1971	.21	1981	8.1	5.4	2.4	1.3	.75	1.12	1.73	2.30	2.89	3.52	4.24	5.12	6.28	8.16	9.95
Ann	47.82	48.63	7.61	Jun 1928	24	15.15	May 1982	.00+	Aug 2000	93.0	63.6	30.4	14.6	32.02	35.01	38.87	41.83	44.48	47.06	49.73	52.69	56.31	61.60	66.20

+ 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: 1896-2001

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

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Station: PARIS, TX

COOP ID: 416794

Climate Division: TX 3

NWS Call Sign:

Elevation: 542 Feet

Lat: 33°40N

Lon: 95°34W

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	1.5	.0	#	0	5.0	1977	31	7.2	1978	5	1978	19	1	1978	.9	.6	.1	.1	.0	.8	.3	@	.0
Feb	1.7	.0	#	0	9.5	1979	7	13.8	1978	10	1979	7	2	1979	.8	.2	.1	.1	.0	.5	.2	.1	.0
Mar	.0	.0	#	0	.5	1971	3	.5	1971	1	1971	3	#+	1999	.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	.3	.0	#	0	4.5	1976	14	5.0	1976	5	1976	14	#+	1976	.2	.1	.1	.0	.0	.1	@	@	.0
Dec	.7	.0	#	0	6.0	1983	16	7.8	1983	6	1983	16	1+	2000	.5	.2	.1	.1	.0	.5	.4	@	.0
Ann	4.2	.0	N/A	N/A	9.5	Feb 1979	7	13.8	Feb 1978	10	Feb 1979	7	2	Feb 1979	2.5	1.1	.4	.3	.0	1.9	.9	.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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NWS Call Sign:

Elevation: 542 Feet

Lat: 33° 40N

Lon: 95° 34W

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	4/14	4/09	4/06	4/03	3/31	3/28	3/25	3/22	3/17
32	4/06	3/30	3/26	3/22	3/18	3/15	3/11	3/06	2/28
28	3/23	3/16	3/11	3/07	3/03	2/27	2/23	2/18	2/11
24	3/13	3/05	2/26	2/21	2/16	2/11	2/06	1/30	1/22
20	3/07	2/23	2/15	2/08	2/01	1/26	1/18	1/09	12/26
16	2/22	2/13	2/06	1/31	1/25	1/18	1/10	12/26	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	10/20	10/26	10/29	11/01	11/04	11/07	11/11	11/14	11/19
32	10/28	11/03	11/07	11/11	11/14	11/17	11/21	11/25	12/01
28	11/05	11/12	11/17	11/21	11/25	11/29	12/03	12/08	12/15
24	11/17	11/25	12/01	12/05	12/10	12/14	12/19	12/25	1/01
20	11/24	12/03	12/11	12/17	12/22	12/28	1/03	1/11	1/23
16	12/12	12/21	12/27	1/03	1/09	1/15	1/24	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	238	231	226	222	218	214	210	205	198
32	264	256	250	245	240	235	230	224	215
28	294	284	277	271	266	260	254	247	238
24	332	320	311	303	296	289	281	272	260
20	>365	>365	338	324	315	307	300	291	280
16	>365	>365	>365	>365	364	344	332	321	307

\* 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: PARIS, TX**

**COOP ID: 416794**

**Climate Division: TX 3      NWS Call Sign:      Elevation: 542 Feet    Lat: 33° 40N    Lon: 95° 34W**

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	757	539	341	134	29	0	0	0	13	97	394	668	2972
60	611	410	214	58	7	0	0	0	2	36	267	521	2126
57	523	338	153	29	2	0	0	0	0	17	203	435	1700
55	467	293	120	17	1	0	0	0	0	9	167	380	1454
50	337	198	55	3	0	0	0	0	0	2	93	257	945
32	51	19	0	0	0	0	0	0	0	0	2	23	95

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	317	409	693	909	1197	1399	1585	1566	1296	1002	610	378	11361
55	20	40	100	235	484	709	872	853	606	298	85	22	4324
57	14	28	72	187	424	649	810	791	546	243	62	15	3841
60	9	17	39	126	335	559	717	698	458	170	35	8	3171
65	0	6	12	53	203	409	562	544	320	76	12	0	2197
70	0	0	1	15	102	265	407	394	200	25	2	0	1411

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	152	259	479	692	975	1181	1365	1347	1088	783	406	198	152	411	890	1582	2557	3738	5103	6450	7538	8321	8727	8925
45	80	162	339	543	820	1031	1210	1192	938	628	282	108	80	242	581	1124	1944	2975	4185	5377	6315	6943	7225	7333
50	37	93	222	397	665	881	1055	1037	788	477	179	51	37	130	352	749	1414	2295	3350	4387	5175	5652	5831	5882
55	11	44	125	264	511	731	900	882	638	335	97	19	11	55	180	444	955	1686	2586	3468	4106	4441	4538	4557
60	1	15	58	149	361	581	745	727	491	204	46	4	1	16	74	223	584	1165	1910	2637	3128	3332	3378	3382
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	99	164	287	432	652	821	921	899	728	499	238	124	99	263	550	982	1634	2455	3376	4275	5003	5502	5740	5864

(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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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](http://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.

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     |
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| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
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## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)