

Climatography of the United States

No. 20

1971-2000

Station: PILOT POINT, TX

COOP ID: 417028

Climate Division: TX 3

NWS Call Sign:

Elevation: 690 Feet Lat: 33° 23N Lon: 96° 58W

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	52.9	30.0	41.5	89	1969	9	49.8	1989	1+	1982	12	31.9	1979	731	0	.0	.0	19.3	2.0	18.6	.0
Feb	58.9	34.2	46.6	93	1996	22	56.5	1999	3	1985	2	34.2	1978	527	0	.0	.1	21.5	1.1	11.4	.0
Mar	67.4	41.5	54.5	94	1995	23	59.7	1974	10+	1989	5	50.1	1975	335	8	.0	.2	29.1	.2	4.7	.0
Apr	75.3	49.9	62.6	98	1987	20	68.2	1999	28+	1994	7	57.9	1993	134	63	.0	1.0	29.9	.0	.6	.0
May	83.2	59.9	71.6	103	1985	30	78.1	1996	39	1994	1	66.3	1976	25	229	.1	6.4	31.0	.0	.0	.0
Jun	90.8	68.7	79.8	104	1972	26	83.9	1998	49	1983	1	74.4	1983	0	443	1.3	19.7	30.0	.0	.0	.0
Jul	96.6	73.4	85.0	111	1980	3	91.3	1998	57	1972	6	79.9	1976	0	621	8.3	28.3	31.0	.0	.0	.0
Aug	96.2	72.3	84.3	110	1964	6	89.2	1999	57+	1989	9	79.5	1971	0	597	9.3	26.9	31.0	.0	.0	.0
Sep	88.8	64.8	76.8	112+	2000	6	83.3	1998	40	1983	21	67.4	1974	9	363	2.2	16.0	30.0	.0	.0	.0
Oct	78.4	53.6	66.0	99+	1979	12	69.4	1995	24	1993	31	58.2	1976	77	108	.0	3.2	30.9	.0	.1	.0
Nov	64.9	41.0	53.0	89+	1989	15	61.1	1999	15	1976	29	44.0	1993	380	18	.0	.0	27.3	.1	5.4	.0
Dec	56.1	32.5	44.3	82+	1987	6	50.3	1984	-2	1989	23	32.1	1983	644	1	.0	.0	22.8	1.2	15.1	@
Ann	75.8	51.8	63.8	112+	Sep 2000	6	91.3	Jul 1998	-2	Dec 1989	23	31.9	Jan 1979	2862	2451	21.2	101.8	333.8	4.6	55.9	@

+ 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: 1947-2001

(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: PILOT POINT, TX

COOP ID: 417028

Climate Division: TX 3

NWS Call Sign:

Elevation: 690 Feet Lat: 33°23N

Lon: 96°58W

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	2.46	2.60	2.20	1989	26	6.50	1998	.00	1986	5.5	5.2	1.8	.8	.26	.55	.97	1.32	1.68	2.07	2.51	3.04	3.74	4.88	5.95
Feb	3.08	2.38	5.60	1986	3	9.50	1997	.30	1999	5.0	4.8	2.2	.9	.34	.58	1.00	1.43	1.89	2.41	3.01	3.76	4.78	6.47	8.11
Mar	3.90	3.55	5.20	1977	27	10.25	1977	.60	1971	6.4	6.2	2.7	1.4	.83	1.19	1.76	2.28	2.80	3.36	3.99	4.74	5.74	7.33	8.83
Apr	3.37	3.31	3.91	1957	27	8.30	1990	.10	1987	6.4	6.2	2.6	1.2	.66	.96	1.45	1.91	2.37	2.87	3.43	4.11	5.01	6.45	7.82
May	6.25	5.69	13.00	1982	13	30.30	1982	.55	1996	8.1	7.6	4.0	2.5	.96	1.49	2.39	3.26	4.15	5.13	6.26	7.64	9.49	12.49	15.37
Jun	4.39	3.30	5.30	1973	2	13.30	1973	.80	1971	6.6	6.0	3.0	1.4	.93	1.33	1.97	2.56	3.15	3.78	4.49	5.34	6.46	8.26	9.96
Jul	2.67	2.35	5.40	1994	10	10.10+	1994	.00+	1998	4.2	4.0	1.7	.9	.00	.18	.60	1.01	1.46	1.96	2.56	3.30	4.33	6.05	7.75
Aug	2.75	2.18	3.40	1970	23	7.30	1996	.00+	2000	4.4	4.2	1.9	1.0	.00	.00	.76	1.24	1.71	2.22	2.80	3.50	4.40	5.91	7.35
Sep	3.76	3.28	5.10	1973	27	11.20	1980	.00	1983	5.4	5.1	2.4	1.4	.36	.79	1.41	1.96	2.52	3.12	3.81	4.64	5.75	7.55	9.26
Oct	4.99	4.68	6.00	1974	31	18.05	1981	.00	1978	6.3	5.9	3.1	1.8	.33	.84	1.63	2.36	3.13	3.98	4.95	6.15	7.78	10.43	13.00
Nov	3.44	2.69	4.46	1996	7	13.06	1996	.50+	1989	5.3	5.1	2.6	1.2	.47	.75	1.24	1.72	2.22	2.77	3.41	4.20	5.26	6.99	8.66
Dec	3.03	2.90	3.60	1992	14	9.00	1991	.20	1981	5.4	5.1	2.1	1.1	.23	.43	.82	1.24	1.70	2.24	2.87	3.68	4.80	6.68	8.53
Ann	44.09	43.01	13.00	May 1982	13	30.30	May 1982	.00+	Aug 2000	69.0	65.4	30.1	15.6	29.20	32.01	35.64	38.43	40.93	43.36	45.89	48.70	52.12	57.14	61.50

+ 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: 1947-2001

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

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Station: PILOT POINT, TX

COOP ID: 417028

Climate Division: TX 3

NWS Call Sign:

Elevation: 690 Feet

Lat: 33°23N

Lon: 96°58W

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	.3	.0	#	0	1.6	1988	6	2.6	1988	#	1988	7	#	1988	.3	.1	.0	.0	.0	.0	.0	.0	.0
Feb	.3	.0	#	0	2.0	1982	26	2.5	1988	1+	1988	11	#+	1988	.5	.2	.0	.0	.0	.1	.0	.0	.0
Mar	.2	.0	#	0	1.5	1971	3	1.5	1971	#	1989	19	#	1989	.1	.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	.2	.0	0	0	1.5	1972	22	2.3	1972	0	0	0	0	0	.3	.1	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.2	1990	30	.3	1990	#+	1990	22	#+	1990	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	1.0	.0	N/A	N/A	2.0	Feb 1982	26	2.6	Jan 1988	1+	Feb 1988	11	#+	Dec 1990	1.3	.5	.0	.0	.0	.1	.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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NWS Call Sign:

Elevation: 690 Feet

Lat: 33°23N

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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	4/13	4/09	4/06	4/04	4/02	3/31	3/28	3/25	3/21
32	4/10	4/03	3/29	3/24	3/20	3/16	3/12	3/07	2/28
28	3/27	3/18	3/11	3/05	2/28	2/23	2/17	2/10	2/01
24	3/14	3/06	2/27	2/22	2/17	2/12	2/07	2/01	1/23
20	3/05	2/22	2/14	2/07	2/01	1/25	1/17	1/06	0/00
16	2/21	2/11	2/04	1/28	1/21	1/13	1/02	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	10/23	10/28	10/31	11/03	11/06	11/08	11/11	11/14	11/19
32	10/29	11/03	11/07	11/11	11/14	11/18	11/21	11/25	12/01
28	11/10	11/16	11/21	11/25	11/29	12/03	12/07	12/12	12/18
24	11/18	11/26	12/02	12/07	12/12	12/17	12/22	12/28	1/05
20	11/24	12/03	12/10	12/16	12/22	12/28	1/04	1/13	0/00
16	12/04	12/13	12/20	12/26	1/01	1/09	1/23	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	234	228	224	220	217	214	210	206	201
32	263	255	249	243	238	233	228	222	213
28	304	293	286	279	273	267	260	253	242
24	330	317	309	302	295	289	282	274	264
20	>365	>365	>365	337	323	313	303	292	279
16	>365	>365	>365	>365	362	339	326	314	299

* 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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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	731	527	335	134	25	0	0	0	9	77	380	644	2862
60	582	399	203	59	6	0	0	0	0	29	259	497	2034
57	496	329	140	30	2	0	0	0	0	13	199	411	1620
55	440	286	106	18	1	0	0	0	0	7	164	357	1379
50	312	196	45	3	0	0	0	0	0	2	92	238	888
32	40	20	0	0	0	0	0	0	0	0	3	18	81

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	333	427	696	918	1226	1433	1644	1620	1344	1055	630	398	11724
55	21	49	89	246	514	743	931	907	654	349	101	24	4628
57	15	36	61	199	453	683	869	845	594	293	76	17	4141
60	7	22	31	138	364	593	776	752	504	215	47	9	3458
65	0	0	8	63	229	443	621	597	363	108	18	1	2451
70	0	0	0	21	121	297	466	444	235	42	5	0	1631

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	154	263	465	688	990	1204	1402	1381	1111	812	411	207	154	417	882	1570	2560	3764	5166	6547	7658	8470	8881	9088
45	78	163	327	541	835	1054	1247	1226	961	657	280	109	78	241	568	1109	1944	2998	4245	5471	6432	7089	7369	7478
50	32	85	202	394	680	904	1092	1071	811	507	173	47	32	117	319	713	1393	2297	3389	4460	5271	5778	5951	5998
55	8	39	110	259	526	754	937	916	663	357	93	12	8	47	157	416	942	1696	2633	3549	4212	4569	4662	4674
60	0	13	46	146	374	604	782	761	515	224	37	0	0	13	59	205	579	1183	1965	2726	3241	3465	3502	3502
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	113	175	300	433	660	819	926	909	736	522	252	140	113	288	588	1021	1681	2500	3426	4335	5071	5593	5845	5985

(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