

Climatology of the United States

No. 20

1971-2000

Station: ALBANY, TX

COOP ID: 410120

Climate Division: TX 3

NWS Call Sign:

Elevation: 1,400 Feet Lat: 32°43N Lon: 99°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	55.1	28.4	41.8	92	1943	23	48.8	1990	-8	1947	4	31.5	1979	722	0	.0	.0	22.0	2.1	18.5	.1
Feb	60.6	32.6	46.6	96	1996	22	54.5	1999	-7	1933	8	33.8	1978	523	0	.0	.2	22.6	1.1	12.1	@
Mar	68.9	39.5	54.2	101	1916	21	60.7	1974	3	1943	3	49.2	1987	342	6	.0	.7	29.4	.1	5.1	.0
Apr	76.9	49.1	63.0	103+	1955	23	69.4	1981	19	1914	9	56.6	1973	122	63	.1	2.8	29.8	.0	.7	.0
May	84.0	58.4	71.2	113	2000	25	78.4	2000	32	1903	1	67.3	1979	34	227	1.1	9.1	31.0	.0	.0	.0
Jun	91.1	67.0	79.1	115	1972	27	84.3	1990	44	1919	2	74.8	1983	1	423	3.1	19.2	30.0	.0	.0	.0
Jul	95.4	70.5	83.0	114+	1954	27	88.2	1980	48	1904	3	79.2	1987	0	557	8.4	26.8	31.0	.0	.0	.0
Aug	94.8	69.0	81.9	114+	1952	7	86.8	2000	44	1915	31	77.3	1971	0	525	6.8	25.9	31.0	.0	.0	.0
Sep	87.3	62.0	74.7	111	2000	6	81.1	1998	33+	1942	28	66.3	1974	14	302	1.9	14.4	30.0	.0	.0	.0
Oct	78.2	50.9	64.6	104+	1951	4	68.7	1998	19	1993	31	55.5	1976	94	80	.2	3.5	30.7	.0	.7	.0
Nov	65.8	39.2	52.5	92+	1965	26	58.7	1999	7	1911	29	42.0	1976	390	14	.0	@	27.2	.1	6.9	.0
Dec	56.8	31.1	44.0	91	1955	25	49.4	1980	-6	1989	23	32.1	1983	653	0	.0	.0	24.0	1.2	15.5	@
Ann	76.2	49.8	63.1	115	Jun 1972	27	88.2	Jul 1980	-8	Jan 1947	4	31.5	Jan 1979	2895	2197	21.6	102.6	338.7	4.6	59.5	.1

+ 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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1901-2001

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

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**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: ALBANY, TX

COOP ID: 410120

Climate Division: TX 3

NWS Call Sign:

Elevation: 1,400 Feet Lat: 32°43N

Lon: 99°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	1.01	.93	2.27	1939	9	3.34	1991	.00	1986	4.0	2.3	.9	.1	.01	.06	.18	.31	.47	.66	.90	1.21	1.65	2.40	3.16
Feb	1.65	1.02	3.16	1957	6	6.03	1997	.00	1999	4.1	3.0	.9	.4	.05	.16	.38	.61	.88	1.18	1.54	2.01	2.65	3.74	4.82
Mar	1.95	1.68	3.84	1938	27	4.36	1990	.09	1971	4.9	3.4	1.4	.5	.31	.48	.76	1.03	1.31	1.61	1.96	2.38	2.95	3.87	4.75
Apr	2.34	1.96	4.73	1957	26	5.70	1981	.48	1980	4.7	3.4	1.4	.8	.43	.64	.98	1.30	1.62	1.97	2.37	2.85	3.49	4.52	5.50
May	3.76	2.85	5.50	1933	15	10.53	1982	.48	1998	6.6	4.7	2.5	1.2	.66	.99	1.54	2.06	2.58	3.15	3.80	4.58	5.63	7.32	8.93
Jun	3.45	2.82	3.97	1999	11	9.46	1991	.08	1994	6.2	4.8	2.0	.9	.42	.69	1.18	1.66	2.17	2.74	3.40	4.22	5.33	7.15	8.92
Jul	1.91	1.97	5.80	1953	18	5.03	1973	.13	1983	4.6	3.3	1.6	.4	.22	.36	.63	.90	1.18	1.50	1.87	2.33	2.96	4.00	5.00
Aug	3.04	1.44	3.95	1995	1	31.19	1978	.00	2000	4.5	3.3	1.1	.7	.02	.13	.42	.80	1.27	1.86	2.60	3.58	5.01	7.51	10.06
Sep	3.17	2.57	5.05	1961	4	13.48	1974	.00	1979	5.1	4.0	1.9	1.2	.07	.27	.68	1.13	1.63	2.22	2.94	3.85	5.13	7.30	9.46
Oct	3.00	2.32	4.08	1985	18	11.03	1986	.00	1979	5.5	4.1	1.9	1.1	.10	.32	.73	1.16	1.64	2.19	2.84	3.67	4.81	6.73	8.62
Nov	1.55	1.05	2.66	1909	28	4.37	1984	.00+	1989	4.3	3.0	1.0	.4	.00	.15	.41	.66	.92	1.20	1.53	1.92	2.47	3.37	4.25
Dec	1.62	1.29	3.75	1926	6	8.65	1991	.00	1996	4.9	2.7	.9	.3	.01	.08	.24	.45	.70	1.01	1.41	1.92	2.66	3.96	5.27
Ann	28.45	26.92	5.80	Jul 1953	18	31.19	Aug 1978	.00+	Aug 2000	59.4	42.0	17.5	8.0	16.55	18.67	21.49	23.69	25.69	27.66	29.73	32.05	34.92	39.16	42.91

+ 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: 1901-2001

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

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Station: ALBANY, TX

COOP ID: 410120

Climate Division: TX 3

NWS Call Sign:

Elevation: 1,400 Feet

Lat: 32°43N

Lon: 99°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	.7	.0	#	0	6.5	1973	11	6.5	1973	#	1981	18	#	1981	.3	.3	.2	.1	.0	.0	.0	.0	.0
Feb	.7	.0	#	0	3.0	1980	9	5.0	1980	3+	1987	20	#+	1988	.4	.4	.1	.0	.0	.2	.1	.0	.0
Mar	.4	.0	#	0	7.3	1989	5	7.3	1989	7	1989	5	1	1989	.1	.1	@	@	.0	.2	.1	.1	.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	.4	.0	0	0	4.0	1976	13	4.0+	1980	0	0	0	0	0	.1	.1	.1	.0	.0	.0	.0	.0	.0
Dec	.2	.0	#	0	3.0	2000	28	3.0+	2000	3	2000	28	#+	2000	.1	.1	.1	.0	.0	.1	.1	.0	.0
Ann	2.4	.0	N/A	N/A	7.3	Mar 1989	5	7.3	Mar 1989	7	Mar 1989	5	1	Mar 1989	1.0	1.0	.5	.1	.0	.5	.3	.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: 1,400 Feet

Lat: 32° 43N

Lon: 99° 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	4/25	4/19	4/14	4/10	4/07	4/03	3/30	3/26	3/19
32	4/13	4/08	4/04	3/31	3/28	3/25	3/21	3/17	3/11
28	4/03	3/27	3/22	3/18	3/14	3/10	3/06	3/01	2/22
24	3/26	3/16	3/09	3/03	2/25	2/19	2/13	2/06	1/26
20	3/04	2/22	2/16	2/10	2/04	1/30	1/24	1/16	1/01
16	2/26	2/15	2/06	1/29	1/21	1/12	12/30	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	10/10	10/16	10/20	10/24	10/27	10/31	11/03	11/07	11/13
32	10/20	10/26	10/30	11/03	11/06	11/09	11/13	11/17	11/23
28	10/30	11/05	11/09	11/13	11/17	11/20	11/24	11/28	12/04
24	11/07	11/15	11/20	11/24	11/29	12/03	12/08	12/13	12/20
20	11/18	11/29	12/06	12/13	12/19	12/26	1/02	1/11	1/28
16	11/30	12/08	12/14	12/20	12/26	1/02	1/15	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	230	221	214	208	203	197	191	184	175
32	246	238	232	227	222	218	213	207	199
28	272	263	257	252	247	242	237	231	222
24	311	299	291	283	276	269	262	253	241
20	>365	>365	338	325	316	307	299	289	277
16	>365	>365	>365	>365	>365	342	326	310	292

* 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

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Climate Division: TX 3 NWS Call Sign: Elevation: 1,400 Feet Lat: 32°43N Lon: 99°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	722	523	342	122	34	1	0	0	14	94	390	653	2895
60	575	394	207	49	10	0	0	0	3	35	265	501	2039
57	490	323	143	23	4	0	0	0	0	16	202	416	1617
55	434	279	108	13	1	0	0	0	0	9	165	359	1368
50	308	188	45	1	0	0	0	0	0	2	92	234	870
32	41	17	0	0	0	0	0	0	0	0	2	14	74

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	343	425	687	931	1216	1412	1580	1548	1278	1010	616	383	11429
55	24	44	82	254	504	722	867	835	588	306	89	16	4331
57	17	32	55	204	445	662	805	773	528	251	66	11	3849
60	10	19	26	140	358	572	712	680	441	177	39	3	3177
65	0	0	6	63	227	423	557	525	302	80	14	0	2197
70	0	0	0	20	126	280	402	372	184	27	3	0	1414

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	201	299	518	728	1002	1179	1344	1310	1058	800	432	238	201	500	1018	1746	2748	3927	5271	6581	7639	8439	8871	9109
45	117	192	372	579	847	1029	1189	1155	908	648	305	136	117	309	681	1260	2107	3136	4325	5480	6388	7036	7341	7477
50	58	109	246	434	692	879	1034	1000	758	493	193	67	58	167	413	847	1539	2418	3452	4452	5210	5703	5896	5963
55	23	57	143	298	537	729	879	845	608	352	107	27	23	80	223	521	1058	1787	2666	3511	4119	4471	4578	4605
60	1	22	73	185	388	579	724	690	464	220	50	10	1	23	96	281	669	1248	1972	2662	3126	3346	3396	3406
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	162	210	343	471	653	789	880	856	697	521	289	174	162	372	715	1186	1839	2628	3508	4364	5061	5582	5871	6045

(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