U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: TURKEY, TX **COOP ID: 419191**

Climate Division: TX 2 **NWS Call Sign:** **Elevation: 2,330 Feet** **Lat: 34˚24N** **Lon: 100˚54W**

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	52.5	23.7	38.1	91	1972	19	45.0	1990	1	1979	2	26.7	1979	834	0	.0	@	21.1	2.6	21.5	.0
Feb	58.8	28.1	43.5	93	1996	23	52.4	1976	-1	1985	1	29.7	1978	603	0	.0	.1	21.8	1.4	14.9	.1
Mar	66.7	34.8	50.8	99	1989	12	56.9	1974	7	1980	2	46.8	1984	443	1	.0	.8	28.7	.1	7.1	.0
Apr	75.7	44.7	60.2	102	1972	12	66.5	1972	22+	1997	13	53.7	1973	194	49	.1	3.0	29.4	.0	1.3	.0
May	83.0	54.7	68.9	107+	2000	25	76.1	1996	34	1967	2	65.3	1997	44	164	1.1	8.3	31.0	.0	.0	.0
Jun	90.6	63.3	77.0	115	1994	27	82.5	1990	45	1964	1	72.0	1982	4	362	4.4	18.4	30.0	.0	.0	.0
Jul	94.9	67.7	81.3	110+	1995	28	87.2	1980	55+	1999	12	77.7	1976	0	505	8.1	26.6	31.0	.0	.0	.0
Aug	93.0	66.0	79.5	110	1964	7	84.0	1983	53+	1994	15	74.9	1971	0	450	4.7	24.0	31.0	.0	.0	.0
Sep	85.8	58.5	72.2	108	2000	6	79.5	1998	35+	1985	30	65.1	1974	21	235	1.3	12.6	30.0	.0	.0	.0
Oct	76.4	46.9	61.7	106	2000	4	66.4	1979	20+	1993	31	54.6	1976	145	41	.1	2.8	30.6	@	.6	.0
Nov	63.3	34.8	49.1	92	1980	8	56.5	1999	11	1991	3	41.3	1972	482	3	.0	.1	25.9	.2	8.8	.0
Dec	53.8	26.0	39.9	82+	1996	10	44.8	1980	-3	1989	23	27.5	1983	779	0	.0	.0	21.6	1.6	19.0	.1
Ann	74.5	45.8	60.2	115	Jun 1994	27	87.2	Jul 1980	-3	Dec 1989	23	26.7	Jan 1979	3549	1810	19.8	96.7	332.1	5.9	73.2	.2

\+ 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

(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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	.64	.47	1.87	1949	10	2.34	1999	.00+	1998
Feb	.87	.55	4.50	1986	7	3.54	1998	.00	1999
Mar	1.36	.91	3.20	2000	23	5.22	2000	.00+	1997
Apr	1.90	1.26	3.30	1997	25	10.31	1997	.00	1996
May	3.09	3.01	4.20	2001	4	6.33	1995	.68	1983
Jun	3.73	2.99	4.50	1966	9	9.95	2000	.55	1998
Jul	2.19	1.91	2.22	1950	24	7.97	1996	.00+	2000
Aug	2.51	2.23	5.08	1968	29	8.40	1997	.00+	2000
Sep	2.61	2.28	3.90	1948	8	7.19	1991	.00+	2000
Oct	1.60	.92	4.00	1983	19	8.01	1983	.00	1992
Nov	1.00	.80	1.70	1986	4	3.40	1986	.00+	1999
Dec	.84	.41	1.75	1987	15	3.73	1992	.00+	2000
Ann	22.34	21.21	5.08	Aug 1968	29	10.31	Apr 1997	.00+	Dec 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	3.2	1.9	.3	@
Feb	4.0	2.5	.6	.1
Mar	4.2	2.4	.9	.3
Apr	4.7	3.2	1.2	.5
May	7.6	5.6	2.4	.8
Jun	7.7	6.0	2.8	1.0
Jul	4.8	3.4	1.6	.8
Aug	6.2	4.8	1.5	.6
Sep	5.6	3.9	1.6	.8
Oct	4.3	3.0	1.0	.3
Nov	3.5	2.4	.6	.1
Dec	3.8	2.3	.3	.1
Ann	59.6	41.4	14.8	5.4

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.00	.00	.06	.16	.27	.40	.57	.78	1.09	1.60	2.12
Feb	.02	.06	.17	.29	.43	.59	.79	1.05	1.41	2.03	2.66
Mar	.00	.05	.22	.42	.64	.91	1.23	1.65	2.24	3.24	4.25
Apr	.02	.11	.32	.57	.87	1.24	1.69	2.27	3.11	4.55	6.01
May	.86	1.16	1.60	1.99	2.37	2.76	3.20	3.72	4.39	5.44	6.42
Jun	.73	1.07	1.62	2.12	2.63	3.18	3.80	4.54	5.53	7.12	8.63
Jul	.00	.11	.42	.75	1.11	1.54	2.04	2.68	3.58	5.10	6.61
Aug	.00	.33	.81	1.21	1.61	2.05	2.55	3.13	3.94	5.24	6.48
Sep	.00	.20	.63	1.03	1.47	1.96	2.53	3.23	4.20	5.82	7.41
Oct	.01	.07	.23	.43	.68	.99	1.38	1.89	2.63	3.93	5.24
Nov	.00	.00	.19	.38	.57	.77	1.00	1.28	1.66	2.27	2.87
Dec	.00	.00	.09	.23	.38	.55	.77	1.04	1.42	2.05	2.69
Ann	13.17	14.82	17.00	18.70	20.24	21.75	23.34	25.12	27.32	30.58	33.44

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	3.2	2.4	#	#
Feb	2.6	.5	#	0
Mar	.3	.0	#	0
Apr	.1	.0	#	0
May	.0	.0	0	0
Jun	.0	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.1	.0	#	0
Nov	.9	.0	#	0
Dec	1.6	.1	#	0
Ann	8.8	3.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	9.0	1994	30	12.0	1994	12	1994	31	1	1997
Feb	7.0	1978	17	12.5	1978	9	1986	11	2	1986
Mar	2.0	1978	3	2.0+	1994	2+	1994	8	#+	1994
Apr	1.5	1983	8	1.5	1983	#	1983	7	#	1983
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	1	1989	4	#	1989
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	2.5	1976	29	2.5	1976	1	1991	31	#	1991
Nov	4.5	1988	19	10.0	1980	5	1988	19	1	1980
Dec	6.0	1987	15	10.5	1987	6	1987	15	1	1987
Ann	9.0	Jan 1994	30	12.5	Feb 1978	12	Jan 1994	31	2	Feb 1986

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.5	1.0	.4	.1	.0
Feb	1.1	1.0	.3	.1	.0
Mar	.3	.2	.0	.0	.0
Apr	.1	@	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.1	@	.0	.0	.0
Nov	.4	.3	.1	.0	.0
Dec	.9	.6	.1	@	.0
Ann	4.4	3.1	.9	.2	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.8	.6	.3	@
Feb	1.6	.7	.4	.0
Mar	.1	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.1	.0	.0	.0
Nov	.5	.1	@	.0
Dec	1.0	.3	@	.0
Ann	5.1	1.7	.7	@

+ 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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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	4/20	4/17	4/14	4/12	4/09	4/06	4/03	3/29
32	4/13	4/08	4/05	4/03	3/31	3/29	3/26	3/23	3/18
28	4/08	4/01	3/27	3/23	3/19	3/15	3/11	3/06	2/28
24	3/30	3/21	3/15	3/09	3/04	2/27	2/22	2/16	2/07
20	3/19	3/10	3/04	2/26	2/21	2/16	2/11	2/05	1/27
16	3/07	2/26	2/19	2/13	2/07	2/01	1/26	1/19	1/07

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	10/11	10/15	10/18	10/21	10/25	10/28	11/01	11/06
32	10/24	10/29	11/01	11/03	11/06	11/08	11/11	11/14	11/19
28	11/02	11/07	11/11	11/14	11/17	11/20	11/23	11/27	12/02
24	11/08	11/13	11/17	11/21	11/24	11/27	12/01	12/05	12/11
20	11/10	11/20	11/27	12/03	12/09	12/14	12/20	12/27	1/06
16	11/18	11/26	12/03	12/08	12/13	12/18	12/24	12/30	1/10

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	212	205	200	196	192	188	184	179	173
32	237	231	226	223	219	216	212	208	202
28	269	260	253	247	242	237	231	224	215
24	294	284	276	270	264	258	252	244	234
20	325	313	304	297	290	282	275	266	254
16	>365	337	325	316	308	301	293	284	272

***** 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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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	834	603	443	194	44	4	0	0	21	145	482	779	3549
60	681	474	299	105	12	0	0	0	4	61	344	624	2604
57	593	397	220	66	5	0	0	0	1	32	269	533	2116
55	536	349	174	45	2	0	0	0	0	19	224	476	1825
50	397	242	85	14	0	0	0	0	0	4	131	335	1208
32	70	29	1	0	0	0	0	0	0	0	4	33	137

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	260	350	581	846	1143	1348	1528	1473	1204	919	514	277	10443
55	12	26	42	201	432	658	815	760	514	225	44	7	3736
57	7	19	26	161	372	598	753	698	455	176	29	2	3296
60	3	11	11	111	287	508	660	605	369	112	15	0	2692
65	0	0	1	49	164	362	505	450	235	41	3	0	1810
70	0	0	0	17	75	228	351	300	130	9	0	0	1110

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	150	250	450	675	952	1155	1328	1276	1015	743	359	178	150	400	850	1525	2477	3632	4960	6236	7251	7994	8353	8531
45	78	155	318	529	797	1005	1173	1121	866	589	244	93	78	233	551	1080	1877	2882	4055	5176	6042	6631	6875	6968
50	30	82	197	383	642	855	1018	966	716	440	139	40	30	112	309	692	1334	2189	3207	4173	4889	5329	5468	5508
55	5	34	106	256	488	705	863	811	571	301	69	14	5	39	145	401	889	1594	2457	3268	3839	4140	4209	4223
60	0	9	49	147	338	555	708	656	426	181	23	0	0	9	58	205	543	1098	1806	2462	2888	3069	3092	3092
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	134	197	312	436	611	756	868	837	664	474	241	142	134	331	643	1079	1690	2446	3314	4151	4815	5289	5530	5672

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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