

Climatology of the United States

No. 20

1971-2000

Station: LIPSCOMB, TX

COOP ID: 415247

Climate Division: TX 1

NWS Call Sign:

Elevation: 2,450 Feet Lat: 36° 14N

Lon: 100° 16W

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	47.3	16.2	31.8	84+	1997	3	39.5	1986	-18+	1974	5	18.7	1979	1031	0	.0	.0	15.2	5.7	30.0	1.6
Feb	53.3	20.4	36.9	88+	1986	27	44.6	1976	-11	1982	6	24.4	1978	789	0	.0	.0	17.4	3.7	24.6	.8
Mar	61.7	29.1	45.4	95+	1995	22	50.6	1972	-2	1980	2	39.6	1998	607	0	.0	.3	24.6	.9	17.9	@
Apr	71.0	39.0	55.0	100	1989	24	61.3	1981	14	1975	3	49.2	1997	315	15	@	1.6	28.1	.1	6.5	.0
May	78.9	50.0	64.5	105+	1996	18	71.6	1996	29+	1967	2	59.1	1976	111	94	.6	4.4	30.9	.0	.3	.0
Jun	88.2	60.3	74.3	113+	1980	28	79.7	1994	40	1964	1	69.1	1982	13	289	2.7	14.5	30.0	.0	.0	.0
Jul	94.2	65.1	79.7	114	1978	19	85.6	1980	45	1990	14	76.8	1972	0	455	8.3	24.7	31.0	.0	.0	.0
Aug	92.8	63.6	78.2	110	1964	10	83.9	2000	44	1988	29	72.8	1992	2	410	6.0	22.3	31.0	.0	.0	.0
Sep	84.7	54.6	69.7	108	2000	5	75.7	1998	27+	2000	27	61.7	1974	40	180	2.1	11.8	29.8	.0	.3	.0
Oct	73.8	41.4	57.6	100	1979	9	62.1	1979	10	1993	31	50.6	1976	242	13	@	2.4	30.2	@	5.5	.0
Nov	58.9	28.1	43.5	90	1980	9	50.4	1999	1	1975	26	35.4	1972	644	0	.0	@	22.2	.8	19.9	.0
Dec	49.2	18.9	34.1	79+	1996	10	39.6	1994	-16	1983	30	21.0	1983	959	0	.0	.0	15.9	3.9	29.2	1.2
Ann	71.2	40.6	55.9	114	Jul 1978	19	85.6	Jul 1980	-18+	Jan 1974	5	18.7	Jan 1979	4753	1456	19.7	82.0	306.3	15.1	134.2	3.6

+ 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: 1948-2001

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

Climatology 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: LIPSCOMB, TX

COOP ID: 415247

Climate Division: TX 1

NWS Call Sign:

Elevation: 2,450 Feet Lat: 36°14N

Lon: 100°16W

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	.54	.37	1.22	2001	28	2.03	1999	.00+	1996	2.8	1.8	.2	@	.00	.00	.10	.19	.29	.40	.52	.68	.89	1.25	1.60
Feb	.81	.82	1.82	1951	25	2.40	1987	.00+	1991	3.4	2.3	.4	.1	.00	.00	.10	.22	.36	.52	.72	.98	1.35	1.97	2.61
Mar	1.91	1.72	2.43	1980	28	6.25	1973	.00+	1997	5.0	3.5	1.3	.5	.00	.00	.48	.82	1.15	1.51	1.92	2.42	3.08	4.18	5.24
Apr	2.00	1.43	2.41	1980	24	6.37	1999	.01	1996	5.6	3.9	1.4	.5	.11	.22	.47	.73	1.04	1.40	1.85	2.41	3.21	4.56	5.91
May	3.85	3.69	6.62	1951	15	10.78	1979	.74	1971	8.2	6.5	2.5	1.1	.99	1.35	1.91	2.40	2.89	3.40	3.97	4.65	5.53	6.92	8.23
Jun	3.28	3.02	3.75	1957	23	7.24	1999	.02	1998	7.5	5.5	2.4	1.1	.50	.77	1.25	1.70	2.17	2.69	3.28	4.01	4.98	6.57	8.09
Jul	2.30	1.94	3.20	1992	16	8.85	1996	.03	1974	5.3	3.9	1.7	.7	.23	.40	.72	1.04	1.39	1.78	2.24	2.81	3.59	4.89	6.17
Aug	2.52	2.05	3.43	1969	25	8.14	1986	.00	2000	6.3	4.3	1.5	.6	.14	.37	.76	1.13	1.52	1.96	2.47	3.11	3.97	5.39	6.78
Sep	1.97	1.70	2.34	1996	18	5.51	1988	.02	2000	5.6	3.7	1.3	.6	.10	.20	.43	.70	1.00	1.36	1.80	2.37	3.18	4.56	5.94
Oct	1.46	.91	3.45	1998	31	6.12	2000	.00+	1987	3.8	2.4	.9	.3	.00	.03	.18	.37	.60	.89	1.26	1.74	2.43	3.65	4.89
Nov	1.12	.65	2.22	1964	5	3.53	1971	.00+	1999	3.9	2.6	.6	.3	.00	.00	.15	.34	.54	.78	1.05	1.40	1.88	2.67	3.46
Dec	.81	.59	1.10	1959	17	3.41	1997	.00	1976	3.4	2.5	.4	.0	.03	.09	.21	.32	.45	.60	.77	.99	1.29	1.79	2.29
Ann	22.57	23.26	6.62	May 1951	15	10.78	May 1979	.00+	Aug 2000	60.8	42.9	14.6	5.8	16.27	17.50	19.06	20.25	21.31	22.32	23.37	24.53	25.93	27.97	29.72

+ 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: 1948-2001

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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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151 Patton Avenue
Asheville, North Carolina 28801
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Station: LIPSCOMB, TX

COOP ID: 415247

Climate Division: TX 1

NWS Call Sign:

Elevation: 2,450 Feet

Lat: 36° 14N

Lon: 100° 16W

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	3.4	3.0	#	#	5.5	1984	18	14.5	1987	12	1987	19	3	1988	1.6	1.2	.4	@	.0	3.0	1.5	.6	.0
Feb	4.1	1.0	1	#	10.0	1971	21	22.0	1971	20	1971	22	6	1983	1.5	1.2	.5	.2	.1	2.3	1.4	.6	.2
Mar	2.9	.0	#	0	14.0	1988	17	19.0	1988	14	1988	17	2	1988	.7	.7	.4	.2	@	.8	.4	.2	.1
Apr	.6	.0	#	0	5.0	1973	8	7.0	1983	5+	1983	5	#+	1994	.3	.2	.1	@	.0	.2	.1	.1	.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	.1	.0	#	0	1.5	1991	31	1.5	1991	2	1991	31	#+	1997	.1	.1	.0	.0	.0	@	.0	.0	.0
Nov	1.7	.0	#	0	9.0	1992	25	15.0	1972	9	1992	25	1	1992	.8	.7	.2	.1	.0	1.0	.5	.1	.0
Dec	4.0	2.0	#	#	10.0	1997	24	21.0	1987	12	1971	3	3	1997	1.5	1.3	.6	.2	@	2.6	1.2	.4	.1
Ann	16.8	6.0	N/A	N/A	14.0	Mar 1988	17	22.0	Feb 1971	20	Feb 1971	22	6	Feb 1983	6.5	5.4	2.2	.7	.1	9.9	5.1	2.0	.4

+ 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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No. 20 1971-2000

Station: LIPSCOMB, TX

COOP ID: 415247

Climate Division: TX 1

NWS Call Sign:

Elevation: 2,450 Feet

Lat: 36° 14N

Lon: 100° 16W

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	5/16	5/11	5/08	5/05	5/03	4/30	4/27	4/24	4/19
32	5/06	5/01	4/28	4/25	4/23	4/20	4/18	4/14	4/10
28	4/20	4/16	4/13	4/10	4/08	4/05	4/03	3/31	3/26
24	4/12	4/08	4/04	4/02	3/30	3/28	3/25	3/22	3/18
20	4/08	4/02	3/29	3/25	3/21	3/17	3/14	3/09	3/03
16	3/27	3/21	3/16	3/12	3/09	3/05	3/01	2/25	2/18
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	9/21	9/26	9/29	10/02	10/04	10/07	10/10	10/13	10/17
32	9/26	10/01	10/05	10/08	10/11	10/14	10/17	10/21	10/26
28	10/05	10/11	10/15	10/18	10/22	10/25	10/28	11/01	11/07
24	10/21	10/26	10/30	11/02	11/05	11/08	11/11	11/14	11/20
20	10/23	10/30	11/04	11/08	11/12	11/15	11/20	11/24	12/01
16	11/03	11/10	11/15	11/19	11/23	11/27	12/01	12/06	12/12
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	172	166	162	158	154	150	147	142	136
32	187	181	177	174	170	167	164	159	154
28	214	207	203	199	196	192	189	184	178
24	237	231	226	222	219	215	211	206	200
20	263	254	246	240	235	229	223	216	206
16	283	275	268	263	258	253	248	242	233

* 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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No. 20
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Station: LIPSCOMB, TX

COOP ID: 415247

Climate Division: TX 1 NWS Call Sign: Elevation: 2,450 Feet Lat: 36°14N Lon: 100°16W

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	1031	789	607	315	111	13	0	2	40	242	644	959	4753
60	876	649	454	196	47	2	0	0	10	126	496	804	3660
57	783	573	367	138	24	0	0	0	4	75	411	711	3086
55	722	520	310	106	14	0	0	0	1	50	357	649	2729
50	575	394	187	45	3	0	0	0	0	15	234	502	1955
32	156	88	7	0	0	0	0	0	0	0	17	102	370

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	148	223	422	689	1007	1266	1478	1432	1130	794	362	166	9117
55	1	11	13	105	308	576	765	719	441	131	13	0	3083
57	0	7	7	78	256	516	703	657	384	94	7	0	2709
60	0	0	1	45	186	429	610	564	300	52	2	0	2189
65	0	0	0	15	94	289	455	410	180	13	0	0	1456
70	0	0	0	3	37	171	303	264	91	2	0	0	871

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	43	109	260	483	784	1050	1255	1206	911	570	200	58	43	152	412	895	1679	2729	3984	5190	6101	6671	6871	6929
45	14	52	156	349	630	900	1100	1051	762	420	112	24	14	66	222	571	1201	2101	3201	4252	5014	5434	5546	5570
50	0	20	84	227	476	750	945	896	613	288	54	3	0	20	104	331	807	1557	2502	3398	4011	4299	4353	4356
55	0	4	34	129	330	601	790	741	469	170	18	0	0	4	38	167	497	1098	1888	2629	3098	3268	3286	3286
60	0	0	14	64	204	453	635	586	336	90	3	0	0	0	14	78	282	735	1370	1956	2292	2382	2385	2385
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	74	129	217	332	496	680	801	771	575	388	178	87	74	203	420	752	1248	1928	2729	3500	4075	4463	4641	4728

(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