Station: GONZALES 1 N, TX

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

COOP ID: 413622

Climate Division: TX 7 NWS Call Sign: Elevation: 380 Feet Lat: 29°32N Lon: 97°27W

									r	Гетр	eratur	re (°F)									
	Mea	n (1)						Extr	emes					Degree Base To	Days (1) emp 65		Mean	Numb	er of I	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	60.7	38.7	49.7	89+	1971	31	56.6	1998	12+	1982	12	41.5	1977	488	5	.0	.0	24.8	.4	8.2	.0
Feb	65.0	42.2	53.6	96	1986	21	61.0	1999	15+	1989	7	43.4	1978	332	13	.0	.2	25.0	.3	4.5	.0
Mar	72.3	49.9	61.1	100	1971	29	66.7	1974	18	1980	2	55.1	1996	158	36	@	.6	30.1	.0	1.5	.0
Apr	78.5	56.1	67.3	98+	1984	27	71.7	1972	31	1987	4	62.8	1997	45	115	.0	2.1	30.0	.0	.1	.0
May	84.5	64.9	74.7	102	1984	8	80.3	1996	44+	1984	10	69.8	1976	6	308	@	8.1	31.0	.0	.0	.0
Jun	90.2	70.8	80.5	108+	1998	15	86.1	1998	50	1984	1	77.8	1973	0	466	1.0	20.6	30.0	.0	.0	.0
Jul	93.9	73.0	83.5	105+	1984	18	87.7	1998	59	1967	16	79.5	1976	0	571	5.5	28.0	31.0	.0	.0	.0
Aug	93.9	72.4	83.2	107	1986	20	86.4	1999	58+	1967	15	79.3	1971	0	562	4.8	27.9	31.0	.0	.0	.0
Sep	89.0	67.7	78.4	111	2000	6	81.6	1977	47+	1989	26	72.5	1974	0	400	1.0	18.9	30.0	.0	.0	.0
Oct	81.1	57.9	69.5	98	1977	1	72.3	1988	28	1993	31	60.6	1976	28	169	.0	5.1	30.9	.0	@	.0
Nov	70.7	48.1	59.4	93	1969	9	65.3	1973	21	1993	27	51.9	1976	216	48	.0	.1	29.1	.0	1.8	.0
Dec	62.9	40.4	51.7	86+	1977	6	60.0	1984	4+	1989	24	41.7	1989	425	11	.0	.0	26.5	.3	6.6	.0
Ann	78.6	56.8	67.7	111	Sep 2000	6	87.7	Jul 1998	4+	Dec 1989	24	41.5	Jan 1977	1698	2704	12.3	111.6	349.4	1.0	22.7	.0

⁺ Also occurred on an earlier date(s)

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Issue Date: February 2004 126-A

[@] Denotes mean number of days greater than 0 but less than .05

⁽¹⁾ From the 1971-2000 Monthly Normals

⁽²⁾ Derived from station's available digital record: 1915-2001

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

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

COOP ID: 413622

Station: GONZALES 1 N, TX

Climate Division: TX 7 NWS Call Sign: Elevation: 380 Feet Lat: 29°32N Lon: 97°27W

										Pı	recipi	tation	(incl	nes)										
	Ma	ans/	P	recip	itatio	on Total	s			М	ean N	Numbo Pays (3		Proba	ability th		nonthly/	annual j	precipita ated an		ll be equ		· less tha	in the
		ans(1)				Extremes	5			D	aily Pre	cipitatio	n		Th		•		-	incomplet	•		ion	
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	2.36	2.07	3.05	1989	20	7.83	1991	.01	1971	8.7	4.3	1.5	.7	.15	.29	.59	.91	1.27	1.70	2.21	2.86	3.77	5.31	6.84
Feb	2.08	1.89	2.70+	1992	4	8.68	1992	.16	1974	7.4	4.0	1.3	.6	.19	.33	.61	.90	1.21	1.57	2.00	2.53	3.26	4.49	5.69
Mar	2.22	2.14	2.69	1945	30	4.46	1983	.05	1971	7.0	3.8	1.6	.6	.38	.58	.90	1.20	1.52	1.85	2.24	2.71	3.33	4.34	5.31
Apr	3.04	2.51	4.19	1977	16	10.48	1977	.18	1984	6.8	3.7	1.9	1.0	.18	.35	.72	1.13	1.60	2.15	2.82	3.68	4.88	6.92	8.95
May	5.43	5.42	4.30	1972	11	15.19	1972	.06	1996	8.2	5.7	3.3	2.0	.69	1.12	1.89	2.65	3.45	4.33	5.36	6.63	8.35	11.17	13.90
Jun	4.24	3.39	6.10	1987	4	20.23	1987	.14	1980	7.6	5.1	2.5	1.2	.36	.65	1.21	1.80	2.45	3.18	4.06	5.16	6.68	9.22	11.71
Jul	1.60	1.28	3.12	1975	1	5.34	1990	.00	1993	5.0	3.0	1.1	.6	.04	.15	.36	.59	.85	1.14	1.50	1.95	2.58	3.65	4.71
Aug	2.68	1.58	16.31	1981	31	17.05	1981	.13	1993	5.7	3.8	1.4	.5	.10	.22	.51	.85	1.26	1.76	2.38	3.20	4.36	6.37	8.41
Sep	3.20	2.87	7.20	1967	22	7.14	1974	.19	1993	7.3	5.0	2.2	.9	.60	.89	1.35	1.79	2.23	2.71	3.25	3.90	4.77	6.16	7.49
Oct	3.87	2.42	11.83	1998	18	20.47	1998	.37	1979	6.5	4.3	2.4	1.3	.22	.44	.91	1.43	2.03	2.73	3.58	4.67	6.20	8.81	11.40
Nov	2.84	2.17	5.05	1940	5	7.51	2000	.20	1999	7.2	4.2	1.9	.9	.48	.72	1.14	1.53	1.93	2.36	2.86	3.47	4.28	5.59	6.84
Dec	2.46	1.98	2.75	1991	22	9.63	1991	.40	1985	8.1	4.5	1.5	.8	.34	.54	.89	1.23	1.59	1.98	2.44	3.00	3.75	4.99	6.18
Ann	36.02	35.36	16.31	Aug 1981	31	20.47	Oct 1998	.00	Jul 1993	85.5	51.4	22.6	11.1	21.01	23.70	27.26	30.04	32.56	35.05	37.66	40.59	44.21	49.56	54.29

⁺ Also occurred on an earlier date(s)

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[#] 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: 1915-2001

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

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

COOP ID: 413622

Station: GONZALES 1 N, TX

Climate Division: TX 7 NWS Call Sign: Elevation: 380 Feet Lat: 29°32N Lon: 97°27W

										Snov	w (inc	hes)											
						Sn	ow To	tals									Mea	ın Nu	mber	of Da	ys (1)		
	Mean	s/Medi	ians (1))					Extre	mes (2)							ow Fa				Snow = Thr	_	
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	#	.0	#	0	#	1997	12	#	1997	7	1985	13	#+	1997	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	#	0	#	1996	16	#+	1996	#	1996	16	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	#+	Jan 1997	12	#+	Jan 1997	7	Jan 1985	13	#+	Jan 1997	.0	.0	.0	.0	.0	.0	.0	.0	.0

⁺ Also occurred on an earlier date(s) #Denotes trace amounts

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[@] 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

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

COOP ID: 413622

Station: GONZALES 1 N, TX

Climate Division: TX 7 NWS Call Sign:

Elevation: 380 Feet Lat: 29°32N Lon: 97°27W

				Freez	e Data				
			Spri	ng Freeze D	ates (Month/	/Day)			
Temp (F)		P	robability of	later date i	n spring (thr	ru Jul 31) tha	n indicated((*)	
icmp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	4/06	3/29	3/24	3/19	3/14	3/10	3/05	2/27	2/20
32	3/21	3/14	3/08	3/03	2/26	2/22	2/17	2/11	2/03
28	3/06	2/24	2/16	2/10	2/03	1/28	1/21	1/13	12/31
24	2/21	2/10	2/01	1/25	1/18	1/09	12/29	0/00	0/00
20	2/09	1/28	1/19	1/10	12/29	0/00	0/00	0/00	0/00
16	1/13	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
			Fa	ll Freeze Da	tes (Month/D	Day)			•
Temp (F)		Pro	bability of e	arlier date i	n fall (beginn	ning Aug 1) t	han indicate	ed(*)	
remp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	10/28	11/03	11/08	11/12	11/15	11/19	11/22	11/27	12/03
32	11/07	11/15	11/21	11/26	12/01	12/05	12/10	12/16	12/24
28	11/19	11/27	12/03	12/08	12/13	12/18	12/23	12/30	1/09
24	12/03	12/13	12/20	12/27	1/02	1/10	1/22	0/00	0/00
20	12/17	12/30	1/09	1/19	2/01	0/00	0/00	0/00	0/00
16	1/08	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
				Freeze F	ree Period				
Temp (F)			Probability	of longer th	an indicated	freeze free p	eriod (Days)		
remp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	272	263	256	250	245	240	234	227	218
32	310	298	290	283	277	270	263	255	244
28	>365	338	326	317	310	304	297	290	279
24	>365	>365	>365	>365	355	340	329	318	305
20	>365	>365	>365	>365	>365	>365	>365	348	333
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

^{*} 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.

Complete documentation available from:

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

COOP ID: 413622

Station: GONZALES 1 N, TX

Climate Division: TX 7 NWS Call Sign: Elevation: 380 Feet Lat: 29°32N Lon: 97°27W

	Degree Days to Selected Base Temperatures (°F)														
Base						Heatin	g Degree l	Days (1)							
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann		
65	488	332	158	45	6	0	0	0	0	28	216	425	1698		
60	352	217	71	10	0	0	0	0	0	6	126	290	1072		
57	280	162	38	2	0	0	0	0	0	2	85	221	790		
55	238	131	23	0	0	0	0	0	0	1	62	181	636		
50	151	66	5	0	0	0	0	0	0	0	25	101	348		
32	9	0	0	0	0	0	0	0	0	0	0	0	9		

Base						Coolin	g Degree I	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	557	605	901	1059	1324	1456	1594	1585	1390	1163	822	610	13066
55	73	92	212	370	611	766	881	872	700	451	194	78	5300
57	53	67	164	312	549	706	819	810	640	390	156	55	4721
60	32	39	105	229	456	616	726	717	550	302	108	31	3911
65	5	13	36	115	308	466	571	562	400	169	48	11	2704
70	2	2	8	42	177	316	416	407	256	69	16	1	1712

										Gro	wing 1	Degre	e Uni	ts (2)										
Base					Growin	g Degree	Units (N	(Ionthly)					Growing Degree Units (Accumulated Monthly)											
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 40 350 439 684 846 1105 1244 1373 1367 1178 947 610 403													Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	350 439 684 846 1105 1244 1373 1367 1178 947 610													789	1473	2319	3424	4668	6041	7408	8586	9533	10143	10546
45													231	543	1077	1773	2723	3817	5035	6247	7275	8067	8536	8810
50	138	199	390	547	795	944	1063	1057	878	637	333	167	138	337	727	1274	2069	3013	4076	5133	6011	6648	6981	7148
55	71	115	256	400	640	794	908	902	728	483	218	92	71	186	442	842	1482	2276	3184	4086	4814	5297	5515	5607
60	30	56	147	267	485	644	753	747	578	339	126	45	30	86	233	500	985	1629	2382	3129	3707	4046	4172	4217
Base	e Growing Degree Units for Corn (Monthly)													Gr	owing D	egree Ur	its for C	orn (Acc	umulate	d Month	ly)			
50/86	50/86 225 274 433 558 768 850 926 911 799 634 388 258												225	499	932	1490	2258	3108	4034	4945	5744	6378	6766	7024

(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

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

- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. Freeze Data Table

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

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