### 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: RUSK, TX 1971-2000 COOP ID: 417841

Climate Division: TX 6 NWS Call Sign: Elevation: 720 Feet Lat: 31°49N Lon: 95°09W

									r	Гетр	eratur	re (°F)									
	Mea	<b>n</b> (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	55.5	36.8	46.2	85	1943	23	52.2	1975	0	1982	11	36.1	1978	589	4	.0	.0	20.9	1.3	12.1	@
Feb	60.8	40.4	50.6	93	1986	21	60.2	1976	1	1951	1	39.5	1978	414	11	.0	@	22.3	.8	7.0	.0
Mar	68.5	47.4	58.0	94	1946	30	63.8	1974	13	1943	3	50.2	1988	250	26	.0	.0	29.4	@	1.9	.0
Apr	75.2	54.2	64.7	96	1948	12	71.4	1981	23	1987	3	60.0	1997	85	75	.0	.2	29.9	.0	.1	.0
May	81.9	62.6	72.3	98+	1998	31	77.0	1996	40+	1978	5	68.8	1993	10	234	.0	2.6	31.0	.0	.0	.0
Jun	88.4	69.3	78.9	103	1980	28	83.8	1998	46	1955	10	74.8	1989	0	415	.2	12.8	30.0	.0	.0	.0
Jul	92.8	72.4	82.6	107	1954	26	87.0	1998	57	1967	16	78.6	1989	0	545	2.6	24.2	31.0	.0	.0	.0
Aug	93.1	71.8	82.5	107+	1962	13	87.5	1999	53	1967	12	77.6	1992	0	541	3.3	24.4	31.0	.0	.0	.0
Sep	87.5	66.6	77.1	110	2000	5	81.5	1986	40	1942	27	70.3	1974	2	363	.6	13.0	30.0	.0	.0	.0
Oct	77.9	57.0	67.5	97	1956	2	71.1	1971	26	1993	31	60.5	1976	50	126	.0	1.2	30.9	.0	.1	.0
Nov	66.5	47.4	57.0	89+	1955	15	63.1	1973	15	1976	29	50.4	1976	274	32	.0	.0	27.7	.1	2.3	.0
Dec	58.1	39.5	48.8	83	1956	8	59.2	1984	1	1989	23	39.5	1989	507	5	.0	.0	23.7	.6	8.8	.0
Ann	75.5	55.5	65.5	110	Sep 2000	5	87.5	Aug 1999	0	Jan 1982	11	36.1	Jan 1978	2181	2377	6.7	78.4	337.8	2.8	32.3	@

<sup>+</sup> Also occurred on an earlier date(s)

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

Issue Date: February 2004 254-A

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>(1)</sup> From the 1971-2000 Monthly Normals

<sup>(2)</sup> Derived from station's available digital record: 1942-2001

<sup>(3)</sup> Derived from 1971-2000 serially complete daily data

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Station: RUSK, TX COOP ID: 417841

Climate Division: TX 6 NWS Call Sign: Elevation: 720 Feet Lat: 31°49N Lon: 95°09W

										Pı	recipi	tation	(incl	nes)										
	Mea Media		P	recipi	itatio	n Total					ean N of D	ays (3	)	Proba		M	nonthly/ onthly/Ar	annual j indic	precipita ated am	ount vs Probal	ies (1)  Il be equ	els		in the
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	4.41	4.10	4.40	1999	29	11.82	1999	.08	1971	7.7	6.5	2.8	1.2	.61	.98	1.61	2.22	2.86	3.57	4.38	5.38	6.73	8.94	11.07
Feb	3.64	3.01	3.30	1997	21	10.01	1992	.10	1996	6.2	5.2	2.5	1.5	.57	.89	1.41	1.91	2.43	3.00	3.65	4.44	5.50	7.22	8.87
Mar	4.12	4.01	8.73	1989	30	11.82	1989	.41	1971	7.3	6.1	2.8	1.1	.93	1.31	1.91	2.45	3.00	3.57	4.22	5.00	6.02	7.64	9.16
Apr	3.86	3.29	4.24	1944	29	10.37	1982	.82	1987	6.1	5.4	2.5	1.3	.89	1.25	1.81	2.32	2.83	3.36	3.97	4.68	5.63	7.13	8.54
May	4.69	4.76	4.05	1955	20	10.20	1991	.05	1998	7.2	6.4	3.4	1.6	.51	.87	1.52	2.17	2.87	3.66	4.58	5.73	7.29	9.87	12.39
Jun	4.34	4.29	10.00	2001	7	11.21	1993	.30	1985	6.4	5.7	2.9	1.4	.74	1.12	1.75	2.34	2.95	3.62	4.38	5.30	6.52	8.51	10.41
Jul	2.95	2.76	4.70	1959	26	6.63	1973	.42	1977	5.2	4.4	1.9	1.2	.69	.97	1.40	1.79	2.17	2.58	3.03	3.57	4.29	5.42	6.48
Aug	2.38	2.01	4.08	1994	8	8.87	1996	.00	1999	5.0	4.2	1.6	.8	.07	.25	.57	.92	1.29	1.73	2.25	2.91	3.82	5.35	6.86
Sep	4.01	3.34	4.75	1979	20	11.61	1973	.74	1981	5.9	5.0	2.6	1.4	.72	1.08	1.66	2.21	2.77	3.37	4.05	4.89	5.99	7.77	9.48
Oct	4.94	3.32	8.00	1957	15	11.95	1985	.72	1977	5.9	5.4	3.2	1.7	.90	1.34	2.06	2.74	3.42	4.16	5.01	6.02	7.38	9.56	11.64
Nov	4.63	4.80	3.40	1988	26	11.98	2000	.28	1999	7.0	6.2	3.1	1.7	1.11	1.54	2.22	2.82	3.42	4.05	4.76	5.60	6.71	8.46	10.11
Dec	4.53	4.45	3.50	1968	3	9.95	1991	.65	1981	7.2	6.3	3.0	1.7	1.18	1.60	2.26	2.84	3.41	4.01	4.68	5.47	6.51	8.14	9.66
Ann	48.50	48.23	10.00	Jun 2001	7	11.98	Nov 2000	.00	Aug 1999	77.1	66.8	32.3	16.6	32.33	35.38	39.33	42.36	45.07	47.70	50.43	53.47	57.18	62.59	67.31

<sup>+</sup> Also occurred on an earlier date(s)

Complete documentation available from:

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

<sup>#</sup> Denotes amounts of a trace

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>\*\*</sup> Statistics not computed because less than six years out of thirty had measurable precipitation

<sup>(1)</sup> From the 1971-2000 Monthly Normals

<sup>(2)</sup> Derived from station's available digital record: 1942-2001

<sup>(3)</sup> Derived from 1971-2000 serially complete daily data

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Station: RUSK, TX

COOP ID: 417841

Climate Division: TX 6 NWS Call Sign: Elevation: 720 Feet Lat: 31°49N Lon: 95°09W

										Snov	w (incl	hes)											
			Fall Median         Depth Median         Depth Median         Daily Snow Fall         Year Fall         Day Snow Fall         Year Fall         Day Snow Depth         Year Snow Depth         Ye														Mea	ın Nu	mber	of Day	<b>ys</b> (1)		
	Mean	s/Medi	ians (1)	)					Extre	mes (2)							ow Fa					Depth esholo	
Month	Snow Fall Mean	Snow Fall Median	Depth	Depth	Daily Snow	Year	Day	Monthly Snow	Year	Daily Snow	Year	Day	Monthly Mean Snow	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	.5	.0	#	0	3.5	1977	31	4.1	1977	4	1977	31	#+	2000	.5	.2	.1	.0	.0	.2	@	.0	.0
Feb	.1	.0	#	0	.6	1989	6	1.0	1989	2	1985	1	#	1985	.1	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	#	0	.5	1989	5	.5	1989	1	1989	5	#	1989	.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	#	.0	0	0	#	1980	27	#	1980	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	#	0	#	1996	17	#+	1996	#	1990	30	#	1990	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.6	.0	N/A	N/A	3.5	Jan 1977	31	4.1	Jan 1977	4	Jan 1977	31	#+	Jan 2000	.7	.2	.1	.0	.0	.2	@	.0	.0

<sup>+</sup> Also occurred on an earlier date(s) #Denotes trace amounts

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

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>-9/-9.9</sup> represents missing values Annual statistics for Mean/Median snow depths are not appropriate

<sup>(1)</sup> Derived from Snow Climatology and 1971-2000 daily data

<sup>(2)</sup> Derived from 1971-2000 daily data

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**COOP ID: 417841** 

Lon: 95°09W

Lat: 31°49N

Station: RUSK, TX

**Climate Division: TX 6** 

**NWS Call Sign:** 

				Freez	e Data				
			Spri	ng Freeze D	ates (Month/	(Day)			
Temp (F)		P	robability of	later date i	n spring (thr	u Jul 31) tha	n indicated(	(*)	
remp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	4/15	4/08	4/04	3/31	3/27	3/24	3/20	3/15	3/09
32	4/01	3/24	3/19	3/14	3/10	3/06	3/01	2/24	2/16
28	3/20	3/11	3/04	2/26	2/20	2/14	2/08	2/01	1/23
24	3/10	2/27	2/20	2/13	2/07	1/31	1/24	1/15	12/29
20	2/24	2/14	2/06	1/31	1/24	1/17	1/09	12/24	0/00
16	2/12	2/03	1/26	1/20	1/13	1/04	12/20	0/00	0/00
<b>1</b>		1	Fal	l Freeze Da	tes (Month/D	Day)	•	1	1
Tomp (F)		Pro	bability of ea	arlier date i	n fall (beginn	ing Aug 1) t	han indicate	ed(*)	
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	10/25	10/31	11/04	11/08	11/11	11/14	11/18	11/22	11/28
32	11/05	11/10	11/14	11/18	11/21	11/24	11/28	12/02	12/07
28	11/13	11/21	11/26	12/01	12/05	12/09	12/14	12/20	12/27
24	11/23	12/01	12/07	12/13	12/18	12/23	12/29	1/05	1/19
20	12/08	12/16	12/23	12/28	1/03	1/10	1/18	0/00	0/00
16	12/17	12/28	1/06	1/14	1/23	2/03	0/00	0/00	0/00
<b>1</b>		1	1	Freeze F	ree Period	1	•	1	1
Temp (F)			Probability	of longer th	an indicated	freeze free p	eriod (Days)		
remb (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	247	241	236	232	228	224	220	216	209
32	282	273	266	261	255	250	245	238	229
28	323	311	302	294	287	280	273	264	251
24	>365	353	332	321	312	304	296	286	273
20	>365	>365	>365	>365	352	336	324	311	295
16	>365	>365	>365	>365	>365	>365	350	338	325

<sup>\*</sup> 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:

Elevation: 720 Feet

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**COOP ID: 417841** 

Station: RUSK, TX

Climate Division: TX 6 NWS Call Sign: Elevation: 720 Feet Lat: 31°49N Lon: 95°09W

	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	589	414	250	85	10	0	0	0	2	50	274	507	2181		
60	446	292	145	28	1	0	0	0	0	14	171	366	1463		
57	365	229	97	11	0	0	0	0	0	6	122	289	1119		
55	314	192	70	6	0	0	0	0	0	3	95	242	922		
50	208	116	27	0	0	0	0	0	0	0	44	147	542		
32	15	4	0	0	0	0	0	0	0	0	0	4	23		

Base						Coolin	g Degree l	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	453	524	799	980	1247	1405	1568	1564	1352	1100	748	525	12265
55	39	68	157	295	534	715	855	851	662	390	153	50	4769
57	28	49	121	241	472	655	793	789	602	330	120	34	4234
60	16	29	76	168	380	565	700	696	512	246	79	19	3486
65	4	11	26	75	234	415	545	541	363	126	32	5	2377
70	0	1	8	21	115	267	390	387	227	46	11	0	1473

										Gro	wing l	Degre	e Uni	ts (2)										
Base					Growin	g Degree	Units (M	Ionthly)					Growing Degree Units (Accumulated Monthly)											
	Jan         Feb         Mar         Apr         May         Jun         Jul         Aug         Sep         Oct         Nov         D           40         248         342         554         742         997         1158         1313         1308         1102         833         500         23													Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	248 342 554 742 997 1158 1313 1308 1102 833 500												248	590	1144	1886	2883	4041	5354	6662	7764	8597	9097	9395
45	153 234 413 592 842 1008 1158 1153 952 679 364												153	387	800	1392	2234	3242	4400	5553	6505	7184	7548	7737
50	82	139	284	442	687	858	1003	998	802	525	246	103	82	221	505	947	1634	2492	3495	4493	5295	5820	6066	6169
55	38	74	169	306	532	708	848	843	652	385	143	51	38	112	281	587	1119	1827	2675	3518	4170	4555	4698	4749
60	10 33 86 180 377 558 693 688 502 243 71										20	10	43	129	309	686	1244	1937	2625	3127	3370	3441	3461	
Base	Growing Degree Units for Corn (Monthly)													Gr	owing D	egree Un	its for C	orn (Acc	umulate	d Month	ly)			
50/86	<b>0/86</b> 147 205 335 467 679 811 897 880 750 543 296 178												147	352	687	1154	1833	2644	3541	4421	5171	5714	6010	6188

(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