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: VICTORIA RGNL AP, TX **COOP ID: 419364**

Climate Division: TX 8 **NWS Call Sign: VCT** **Elevation: 115 Feet** **Lat: 28˚52N** **Lon: 96˚56W**

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	62.8	43.6	53.2	88	1971	30	59.4	2000	14	1982	11	44.5	1978	372	18	.0	.0	26.5	.1	4.1	.0
Feb	66.6	46.7	56.7	95	1986	19	64.7	2000	19	1985	2	47.6	1978	249	26	.0	.1	26.2	.1	2.2	.0
Mar	73.4	53.9	63.7	97	1989	30	69.3	2000	21	1980	2	57.8	1996	113	84	.0	.4	30.8	.0	.5	.0
Apr	79.2	60.1	69.7	98	1963	9	73.7	1972	33	1987	3	65.5	1997	28	181	.0	.8	30.0	.0	.0	.0
May	85.1	68.1	76.6	101	1964	2	81.2	1996	49+	1978	4	72.8	1976	1	368	.0	6.3	31.0	.0	.0	.0
Jun	90.3	73.3	81.8	106	1998	14	86.0	1998	59+	1984	1	80.1	1973	0	514	.2	20.2	30.0	.0	.0	.0
Jul	93.4	75.0	84.2	104	1964	12	87.2	1998	62	1967	16	80.8	1976	0	601	.7	28.0	31.0	.0	.0	.0
Aug	93.7	74.6	84.2	107	1962	13	86.3	1988	62	1992	29	82.2	1971	0	597	1.5	27.9	31.0	.0	.0	.0
Sep	89.9	70.3	80.1	111	2000	5	83.3	1977	48	2000	26	76.1	1974	1	454	.4	18.5	30.0	.0	.0	.0
Oct	83.0	61.6	72.3	99	1991	12	75.5	1984	31	1993	31	64.2	1976	22	248	.0	4.9	31.0	.0	@	.0
Nov	73.0	52.3	62.7	93	1988	4	70.1	1973	24	1976	29	54.4	1976	145	83	.0	.1	29.5	.0	.6	.0
Dec	65.2	45.2	55.2	88	1964	25	64.6	1984	9	1989	23	45.4	1989	317	29	.0	.0	28.2	.2	3.1	.0
Ann	79.6	60.4	70.0	111	Sep 2000	5	87.2	Jul 1998	9	Dec 1989	23	44.5	Jan 1978	1248	3203	2.8	107.2	355.2	.4	10.5	.0

\+ 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: 1961-2001

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

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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	2.44	2.31	3.14	1991	9	7.76	1991	.02	1971
Feb	2.04	1.67	2.69	1992	3	9.08	1992	.23	1988
Mar	2.25	1.71	4.15	1997	11	11.61	1997	.18	1971
Apr	2.97	1.64	9.87	1991	5	11.70	1997	.00	1987
May	5.12	4.44	7.65	1993	5	14.66	1993	.01	1998
Jun	4.96	4.44	9.30	1977	15	12.68	1973	.00	1980
Jul	2.90	2.16	7.58	1990	16	13.59	1990	.05	1997
Aug	3.05	2.54	4.07	2001	31	7.30	1974	.72	1993
Sep	5.00	3.61	7.83	1978	13	19.05	1978	1.11	1982
Oct	4.26	3.66	6.46	1994	18	12.44	1997	.34	1987
Nov	2.64	2.18	6.63	1982	19	10.11	1998	.02	1981
Dec	2.47	2.08	6.12	1975	24	6.97	1975	.36	1972
Ann	40.10	41.20	9.87	Apr 1991	5	19.05	Sep 1978	.00+	Apr 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.8	4.4	1.4	.6
Feb	7.3	3.8	1.0	.6
Mar	6.9	3.4	1.3	.7
Apr	6.4	3.5	1.5	.8
May	7.4	5.1	2.9	1.7
Jun	8.4	5.6	2.9	1.7
Jul	7.2	4.3	1.9	.9
Aug	8.8	5.0	2.1	.9
Sep	9.9	6.3	3.0	1.5
Oct	7.3	4.5	2.6	1.3
Nov	7.5	4.2	1.5	.6
Dec	8.1	4.2	1.4	.6
Ann	94.0	54.3	23.5	11.9

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	.18	.34	.65	.99	1.36	1.79	2.31	2.97	3.88	5.41	6.92
Feb	.17	.31	.58	.86	1.17	1.53	1.95	2.48	3.22	4.44	5.65
Mar	.20	.36	.66	.98	1.32	1.71	2.17	2.75	3.54	4.87	6.17
Apr	.04	.17	.50	.89	1.36	1.93	2.64	3.56	4.87	7.15	9.45
May	.26	.54	1.14	1.83	2.61	3.55	4.69	6.16	8.24	11.78	15.33
Jun	.17	.56	1.26	1.97	2.76	3.66	4.73	6.08	7.94	11.05	14.11
Jul	.09	.21	.51	.87	1.31	1.85	2.54	3.44	4.73	6.99	9.29
Aug	.81	1.10	1.54	1.93	2.31	2.71	3.15	3.68	4.37	5.44	6.44
Sep	.95	1.39	2.13	2.80	3.49	4.23	5.07	6.09	7.44	9.60	11.67
Oct	.40	.70	1.28	1.87	2.52	3.25	4.11	5.19	6.68	9.15	11.58
Nov	.17	.33	.65	1.01	1.42	1.89	2.47	3.20	4.22	5.95	7.67
Dec	.38	.59	.95	1.29	1.65	2.04	2.48	3.02	3.75	4.93	6.06
Ann	24.55	27.39	31.12	34.02	36.63	39.20	41.88	44.88	48.56	54.00	58.77

\+ 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: 1961-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	.2	.0	#	0	2.1	1985	12	2.1	1985	2	1985	13	#	1985	.1	.1	.0	.0	.0	@	.0	.0	.0
Feb	.1	.0	#	0	1.0	1973	9	1.0	1973	1	1973	9	#	1973	.1	.1	.0	.0	.0	@	.0	.0	.0
Mar	#	.0	0	0	#	1989	5	#	1989	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	#	1989	.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	.2	1976	28	.2	1976	#+	1976	29	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1990	22	#+	1990	#+	1990	23	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	2.1	Jan 1985	12	2.1	Jan 1985	2	Jan 1985	13	#+	May 1989	.3	.2	.0	.0	.0	.0	.0	.0	.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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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	3/29	3/20	3/13	3/08	3/02	2/25	2/20	2/13	2/04
32	3/08	2/27	2/20	2/14	2/09	2/04	1/29	1/22	1/11
28	2/25	2/13	2/04	1/28	1/21	1/13	1/04	12/21	0/00
24	2/09	1/29	1/21	1/13	1/05	12/26	0/00	0/00	0/00
20	1/19	1/06	12/19	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	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	11/02	11/09	11/14	11/18	11/22	11/26	12/01	12/06	12/13
32	11/16	11/24	11/30	12/06	12/11	12/16	12/21	12/28	1/07
28	12/01	12/08	12/14	12/19	12/25	12/30	1/06	1/18	0/00
24	12/12	12/22	12/30	1/06	1/14	1/26	0/00	0/00	0/00
20	12/27	1/10	1/27	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	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	297	286	278	271	264	258	251	243	231
32	349	330	320	312	305	298	290	282	271
28	>365	>365	>365	353	339	329	320	311	300
24	>365	>365	>365	>365	>365	354	341	331	319
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
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.

Derived from 1971-2000 serially complete daily data

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Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	372	249	113	28	1	0	0	0	1	22	145	317	1248
60	265	153	39	2	0	0	0	0	0	2	83	214	758
57	205	107	18	0	0	0	0	0	0	1	51	159	541
55	171	81	10	0	0	0	0	0	0	0	36	127	425
50	95	33	2	0	0	0	0	0	0	0	13	61	204
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	676	711	999	1144	1393	1504	1625	1621	1444	1250	924	735	14026
55	111	145	307	455	680	814	912	908	754	540	270	136	6032
57	84	113	254	397	618	754	850	846	694	479	225	107	5421
60	53	72	182	312	525	664	757	753	604	390	164	71	4547
65	18	26	84	181	368	514	601	597	454	248	83	29	3203
70	4	5	28	79	221	364	447	443	310	131	30	7	2069

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	450	523	759	911	1155	1276	1388	1384	1215	1013	696	504	450	973	1732	2643	3798	5074	6462	7846	9061	10074	10770	11274
45	316	389	604	761	1000	1126	1233	1229	1065	858	549	363	316	705	1309	2070	3070	4196	5429	6658	7723	8581	9130	9493
50	205	266	458	611	845	976	1078	1074	915	704	405	239	205	471	929	1540	2385	3361	4439	5513	6428	7132	7537	7776
55	117	162	315	462	690	826	923	919	765	550	275	141	117	279	594	1056	1746	2572	3495	4414	5179	5729	6004	6145
60	54	83	190	319	535	676	768	764	615	398	170	75	54	137	327	646	1181	1857	2625	3389	4004	4402	4572	4647
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	269	316	484	615	820	890	955	950	839	689	442	306	269	585	1069	1684	2504	3394	4349	5299	6138	6827	7269	7575

(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:
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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