

Climatography of the United States

No. 20

1971-2000

Station: EL PASO INTL AP, TX

COOP ID: 412797

Climate Division: TX 5

NWS Call Sign: ELP

Elevation: 3,918 Feet Lat: 31°49N

Lon: 106°23W

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	57.2	32.9	45.1	80	1970	24	49.7	2000	-8	1962	11	41.1	1985	632	0	.0	.0	26.3	.3	17.8	.0
Feb	63.4	37.5	50.5	83+	1986	26	56.3	1995	8+	1985	2	45.5	1974	424	2	.0	.0	26.7	.2	10.7	.0
Mar	70.2	43.7	57.0	89+	1989	12	62.1	1972	14	1971	3	50.6	1977	272	8	.0	.0	30.7	.0	4.4	.0
Apr	78.1	51.1	64.6	98+	1989	21	69.1	1989	23	1983	8	58.0	1983	100	72	.0	2.3	29.8	.0	.9	.0
May	86.7	60.6	73.7	104	1951	28	80.1	1996	31	1967	2	70.0	1973	8	262	.6	13.2	31.0	.0	.0	.0
Jun	95.3	68.8	82.1	114	1994	30	89.0	1994	46	1988	1	77.8	1973	0	497	9.4	25.9	30.0	.0	.0	.0
Jul	94.5	72.0	83.3	112	1979	10	88.2	1980	57+	1988	22	79.2	1976	0	552	7.1	26.8	31.0	.0	.0	.0
Aug	92.0	70.2	81.1	108	1980	2	86.2	1994	56+	1973	26	78.0+	1974	0	483	2.1	24.0	31.0	.0	.0	.0
Sep	87.1	63.7	75.4	104	1982	1	79.9	1983	42+	1975	23	70.5	1974	9	305	.5	14.3	30.0	.0	.0	.0
Oct	77.9	51.8	64.9	96+	1994	5	68.1	1987	25+	1970	30	59.6	1976	89	71	.0	2.4	30.8	.0	.5	.0
Nov	65.5	39.8	52.7	87	1983	2	56.7	1978	1	1976	29	45.6	1976	386	2	.0	.0	28.7	.1	8.1	.0
Dec	57.4	33.4	45.4	80	1973	2	50.2	1977	5	1953	24	40.6	1997	623	0	.0	.0	26.2	.2	17.6	.0
Ann	77.1	52.1	64.7	114	Jun 1994	30	89.0	Jun 1994	-8	Jan 1962	11	40.6	Dec 1997	2543	2254	19.7	108.9	352.2	.8	60.0	.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/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

096-A

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No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: EL PASO INTL AP, TX

COOP ID: 412797

Climate Division: TX 5

NWS Call Sign: ELP

Elevation: 3,918 Feet Lat: 31°49N

Lon: 106°23W

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	.45	.33	.54	1960	11	1.34	1993	.00	2000	4.7	1.8	@	.0	.01	.05	.11	.17	.24	.33	.43	.55	.73	1.03	1.32
Feb	.39	.31	.81	1956	2	1.69	1973	.00+	1999	3.1	1.3	.1	.0	.00	.00	.05	.13	.21	.29	.38	.50	.65	.89	1.14
Mar	.26	.22	.82	1952	1	.64	1997	.00+	1996	2.2	.8	.0	.0	.00	.00	.00	.07	.13	.19	.25	.34	.45	.63	.81
Apr	.23	.12	.98	1966	24	1.42	1983	.00+	1999	1.7	.8	.1	.0	.00	.00	.00	.02	.06	.12	.19	.28	.41	.62	.83
May	.38	.13	1.26	1992	17	4.22	1992	.00+	2000	2.8	1.1	.1	.1	.00	.00	.00	.03	.07	.15	.25	.40	.64	1.08	1.55
Jun	.87	.43	1.17	1966	27	3.18	1984	.00+	1990	3.5	2.0	.6	.1	.00	.00	.02	.10	.22	.39	.63	.96	1.47	2.40	3.38
Jul	1.49	1.17	1.75	1960	8	3.96	1990	.04	1978	8.2	3.6	.9	.3	.17	.28	.49	.70	.92	1.17	1.46	1.82	2.31	3.11	3.90
Aug	1.75	1.53	2.00	1957	31	5.57	1984	.02	1994	8.8	3.8	1.1	.3	.18	.31	.55	.79	1.06	1.35	1.70	2.13	2.73	3.71	4.67
Sep	1.61	1.40	2.26	1974	22	6.68	1974	.00	2000	6.5	3.1	1.0	.4	.02	.09	.27	.49	.74	1.05	1.43	1.93	2.63	3.86	5.09
Oct	.81	.55	1.29	1949	22	3.12	1984	.00+	1996	4.9	2.3	.3	@	.00	.00	.10	.24	.39	.56	.76	1.01	1.36	1.93	2.51
Nov	.42	.32	.85	1986	3	1.42	1986	.00+	1999	3.1	1.4	.1	.0	.00	.00	.10	.17	.24	.32	.41	.53	.68	.94	1.19
Dec	.77	.43	1.46	1987	13	3.29	1991	.00+	1996	4.3	2.2	.3	.1	.00	.03	.12	.23	.36	.51	.70	.93	1.27	1.85	2.44
Ann	9.43	8.70	2.26	Sep 1974	22	6.68	Sep 1974	.00+	Sep 2000	53.8	24.2	4.6	1.3	5.35	6.07	7.04	7.79	8.48	9.15	9.87	10.67	11.66	13.13	14.43

+ 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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COOP ID: 412797

Climate Division: TX 5

NWS Call Sign: ELP

Elevation: 3,918 Feet

Lat: 31°49N

Lon: 106°23W

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	1.5	.0	#	0	4.5	1973	2	6.9	1992	6	1983	1	1	1983	1.2	.5	.2	.0	.0	.9	.3	.1	.0
Feb	.8	.0	#	0	5.3	1988	5	6.6	1988	4	1980	9	#	1988	.5	.3	.1	@	.0	.3	.1	.0	.0
Mar	.3	.0	#	0	6.1	1984	5	6.1	1984	3	1984	6	#	1987	.1	.1	@	@	.0	.1	@	.0	.0
Apr	.7	.0	#	0	6.5	1983	5	16.5	1983	9	1983	7	1	1983	.2	.2	.1	.1	.0	.1	.1	.1	.0
May	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1994	.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	1.0	1980	28	1.0	1980	1	1993	30	#	1993	.1	.0	.0	.0	.0	@	.0	.0	.0
Nov	.9	.0	#	0	4.1	1976	28	12.7	1976	6	1976	28	1	1976	.4	.3	.2	.0	.0	.3	.2	.1	.0
Dec	1.8	.0	#	0	14.5	1987	13	25.9	1987	14	1987	15	2	1987	.7	.5	.2	.2	@	.8	.4	.2	.1
Ann	6.1	.0	N/A	N/A	14.5	Dec 1987	13	25.9	Dec 1987	14	Dec 1987	15	2	Dec 1987	3.2	1.9	.8	.3	@	2.5	1.1	.5	.1

+ 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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NWS Call Sign: ELP

Elevation: 3,918 Feet

Lat: 31° 49N

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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	4/27	4/21	4/16	4/12	4/09	4/05	4/01	3/28	3/21
32	4/12	4/04	3/30	3/26	3/22	3/18	3/13	3/08	3/01
28	4/03	3/25	3/19	3/14	3/09	3/04	2/27	2/20	2/12
24	3/28	3/15	3/06	2/26	2/19	2/11	2/03	1/25	1/12
20	3/01	2/17	2/08	1/31	1/23	1/16	1/08	12/29	12/14
16	2/19	2/04	1/24	1/12	12/30	12/07	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	10/18	10/22	10/25	10/28	10/30	11/02	11/05	11/08	11/12
32	10/25	10/30	11/02	11/05	11/08	11/11	11/14	11/17	11/22
28	10/31	11/07	11/12	11/16	11/19	11/23	11/27	12/02	12/08
24	11/15	11/20	11/25	11/28	12/02	12/05	12/08	12/13	12/18
20	11/20	11/30	12/06	12/12	12/18	12/23	12/30	1/07	1/22
16	12/06	12/16	12/24	1/01	1/11	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	226	218	213	208	204	200	195	190	182
32	257	248	241	236	230	225	220	213	204
28	290	278	269	262	255	248	240	231	219
24	324	309	299	291	283	276	268	258	246
20	>365	>365	348	332	321	311	302	292	279
16	>365	>365	>365	>365	>365	>365	348	327	308

* 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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Climate Division: TX 5 NWS Call Sign: ELP Elevation: 3,918 Feet Lat: 31°49N Lon: 106°23W

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	632	424	272	100	8	0	0	0	9	89	386	623	2543
60	463	273	141	41	2	0	0	0	0	25	239	453	1637
57	370	199	88	20	0	0	0	0	0	10	170	362	1219
55	309	155	59	12	0	0	0	0	0	5	131	303	974
50	168	70	16	2	0	0	0	0	0	0	58	170	484
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	395	499	747	948	1257	1470	1560	1497	1278	994	601	402	11648
55	3	25	107	275	544	780	847	784	589	296	48	6	4304
57	1	14	74	224	482	720	785	722	529	242	29	3	3825
60	0	5	38	156	390	630	692	629	441	167	12	1	3161
65	0	2	8	72	262	497	552	483	305	71	2	0	2254
70	0	0	1	20	123	331	382	320	165	18	0	0	1360

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	182	305	509	717	1016	1243	1321	1261	1045	755	377	192	182	487	996	1713	2729	3972	5293	6554	7599	8354	8731	8923
45	82	180	359	568	861	1093	1166	1106	895	600	242	88	82	262	621	1189	2050	3143	4309	5415	6310	6910	7152	7240
50	25	84	222	423	706	943	1011	951	745	450	132	28	25	109	331	754	1460	2403	3414	4365	5110	5560	5692	5720
55	0	31	112	284	551	793	856	796	595	305	53	2	0	31	143	427	978	1771	2627	3423	4018	4323	4376	4378
60	0	4	42	164	398	643	701	641	446	174	14	0	0	4	46	210	608	1251	1952	2593	3039	3213	3227	3227
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	147	220	343	475	661	782	863	833	688	488	258	149	147	367	710	1185	1846	2628	3491	4324	5012	5500	5758	5907

(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