

Climatology of the United States

No. 20

1971-2000

Station: PARKER, AZ

COOP ID: 026250

Climate Division: AZ 5

NWS Call Sign:

Elevation: 420 Feet Lat: 34°09N Lon: 114°17W

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	67.4	40.7	54.1	87	1971	18	59.0	1981	10+	1894	8	49.2	1979	341	2	.0	.0	30.8	.0	3.2	.0
Feb	72.8	44.6	58.7	96	1904	24	63.0	1995	11	1929	9	54.3	1985	189	13	.0	.2	27.9	.0	.7	.0
Mar	78.8	48.7	63.8	102	1930	26	70.6	1972	21+	1917	3	57.9	1973	122	83	.0	3.0	31.0	.0	@	.0
Apr	87.1	54.2	70.7	113	1898	25	77.3	1989	23	1929	7	62.5	1975	39	209	1.9	12.1	30.0	.0	.0	.0
May	95.3	62.7	79.0	117+	1910	31	85.5	2000	37	1915	2	73.1	1977	3	438	8.6	25.1	31.0	.0	.0	.0
Jun	104.6	70.7	87.7	126	1896	15	92.9	1981	42	1905	5	83.1	1991	0	680	23.8	29.5	30.0	.0	.0	.0
Jul	108.4	77.9	93.2	127	1905	7	95.6	1981	55	1902	3	89.0	1993	0	871	30.2	31.0	31.0	.0	.0	.0
Aug	106.7	77.8	92.3	126	1905	6	95.9	1995	53	1900	23	89.4	1983	0	845	29.1	30.9	31.0	.0	.0	.0
Sep	101.2	71.2	86.2	120+	1948	3	89.7	1979	38	1923	28	79.9	1985	0	635	18.9	28.8	30.0	.0	.0	.0
Oct	90.0	59.2	74.6	110+	1980	2	79.8	1988	27+	1912	31	69.6	1984	13	311	3.9	17.4	31.0	.0	@	.0
Nov	76.0	47.2	61.6	100+	1915	6	67.7	1995	18	1911	30	56.9	1994	149	48	.0	.8	30.0	.0	.2	.0
Dec	67.3	40.5	53.9	92	1901	6	59.6	1980	9	1911	31	49.4	1978	346	2	.0	.0	30.8	.0	2.7	.0
Ann	88.0	58.0	73.0	127	Jul 1905	7	95.9	Aug 1995	9	Dec 1911	31	49.2	Jan 1979	1202	4137	116.4	178.8	364.5	.0	6.8	.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: 1893-2001

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

062-A

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: PARKER, AZ

COOP ID: 026250

Climate Division: AZ 5

NWS Call Sign:

Elevation: 420 Feet Lat: 34°09N

Lon: 114°17W

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	.87	.42	1.95	1915	30	4.63	1993	.00+	2000	3.5	1.8	.5	.1	.00	.00	.02	.08	.20	.36	.60	.94	1.45	2.41	3.43
Feb	.70	.34	2.40	1901	10	3.17	1998	.00+	1989	3.0	1.6	.4	.1	.00	.00	.02	.12	.24	.39	.59	.84	1.21	1.84	2.50
Mar	.65	.34	1.71	1970	1	3.16	1992	.00+	1999	3.0	1.9	.3	@	.00	.00	.00	.05	.20	.37	.56	.81	1.15	1.74	2.32
Apr	.17	.00	1.37	1952	28	1.48	1988	.00+	2000	1.2	.5	.1	.0	.00	.00	.00	.00	.00	.00	.06	.16	.31	.55	.79
May	.09	.01	2.00	1904	11	.71	1992	.00+	2000	.7	.3	@	.0	.00	.00	.00	.00	.00	.00	.04	.10	.17	.28	.40
Jun	.02	.00	.50	1912	29	.22	1994	.00+	2000	.3	.1	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.02	.07	.12
Jul	.27	.05	1.57	1907	24	1.13	1981	.00+	2000	1.2	.5	.2	.1	.00	.00	.00	.00	.00	.04	.14	.28	.48	.83	1.19
Aug	.61	.27	2.85	1992	23	3.46	1992	.00+	1996	2.1	1.2	.3	.1	.00	.00	.00	.05	.15	.29	.46	.71	1.06	1.68	2.31
Sep	.57	.30	3.43	1939	5	3.53	1976	.00+	1995	1.7	1.2	.5	.2	.00	.00	.00	.03	.13	.27	.44	.67	1.00	1.59	2.17
Oct	.32	.11	2.10	1978	21	2.80	1978	.00+	1999	1.5	.7	.2	.1	.00	.00	.00	.00	.01	.06	.16	.31	.54	.98	1.45
Nov	.33	.14	1.95	1910	14	1.53	1985	.00+	1999	1.6	.8	.3	.0	.00	.00	.00	.02	.07	.14	.24	.38	.57	.93	1.29
Dec	.57	.15	1.82	1994	5	3.79	1984	.00+	1999	2.2	1.4	.4	.1	.00	.00	.00	.02	.09	.20	.36	.60	.97	1.64	2.36
Ann	5.17	5.05	3.43	Sep 1939	5	4.63	Jan 1993	.00+	Jul 2000	22.0	12.0	3.2	.8	1.36	1.85	2.59	3.25	3.90	4.58	5.33	6.22	7.39	9.23	10.94

+ 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: 1893-2001

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

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

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: PARKER, AZ

COOP ID: 026250

Climate Division: AZ 5

NWS Call Sign:

Elevation: 420 Feet

Lat: 34°09N

Lon: 114°17W

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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.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

Complete documentation available from:

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

Climatography
of the United States
No. 20
1971-2000

Station: PARKER, AZ

COOP ID: 026250

Climate Division: AZ 5

NWS Call Sign:

Elevation: 420 Feet

Lat: 34° 09N

Lon: 114° 17W

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	3/13	3/03	2/23	2/17	2/11	2/05	1/29	1/22	1/11
32	2/23	2/12	2/05	1/29	1/22	1/16	1/09	12/30	12/13
28	2/02	1/21	1/11	1/01	12/18	0/00	0/00	0/00	0/00
24	1/05	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	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	11/15	11/20	11/23	11/26	11/29	12/02	12/05	12/08	12/13
32	11/21	11/29	12/05	12/10	12/15	12/20	12/26	1/02	1/15
28	12/10	12/21	12/31	1/11	1/29	0/00	0/00	0/00	0/00
24	1/02	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	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	325	311	303	295	289	282	275	267	256
32	>365	>365	347	332	322	314	305	296	284
28	>365	>365	>365	>365	>365	>365	>365	336	314
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
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

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

**Climatology
of the United States**
No. 20
1971-2000

Station: PARKER, AZ

COOP ID: 026250

Climate Division: AZ 5

NWS Call Sign:

Elevation: 420 Feet Lat: 34°09N Lon: 114°17W

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	341	189	122	39	3	0	0	0	0	13	149	346	1202
60	202	90	51	12	0	0	0	0	0	2	67	206	630
57	134	49	25	5	0	0	0	0	0	0	36	137	386
55	98	28	15	2	0	0	0	0	0	0	21	100	264
50	32	6	2	0	0	0	0	0	0	0	4	33	77
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	684	748	984	1160	1458	1670	1894	1868	1625	1321	888	679	14979
55	69	132	286	472	745	980	1181	1155	935	608	219	66	6848
57	43	96	234	415	683	920	1119	1093	875	547	174	41	6240
60	18	54	167	332	590	830	1026	1000	785	456	115	17	5390
65	2	13	83	209	438	680	871	845	635	311	48	2	4137
70	0	1	30	116	295	530	716	690	485	187	14	0	3064

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	444	557	749	934	1227	1444	1668	1639	1396	1082	656	434	444	1001	1750	2684	3911	5355	7023	8662	10058	11140	11796	12230
45	293	412	594	784	1072	1294	1513	1484	1246	927	506	286	293	705	1299	2083	3155	4449	5962	7446	8692	9619	10125	10411
50	154	271	439	634	917	1144	1358	1329	1096	772	356	146	154	425	864	1498	2415	3559	4917	6246	7342	8114	8470	8616
55	60	141	286	484	762	994	1203	1174	946	619	216	45	60	201	487	971	1733	2727	3930	5104	6050	6669	6885	6930
60	7	50	153	339	607	844	1048	1019	796	465	109	1	7	57	210	549	1156	2000	3048	4067	4863	5328	5437	5438
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	281	351	470	587	766	866	1013	1003	870	685	413	279	281	632	1102	1689	2455	3321	4334	5337	6207	6892	7305	7584

(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