

Climatology of the United States

No. 20

1971-2000

Station: AJO, AZ

COOP ID: 020080

Climate Division: AZ 7

NWS Call Sign:

Elevation: 1,800 Feet Lat: 32° 22N

Lon: 112° 52W

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	65.0	44.0	54.5	85+	2000	17	60.4	1986	17	1937	22	47.9	1979	334	9	.0	.0	30.3	.0	1.7	.0
Feb	69.6	46.9	58.3	92	1963	8	64.2	1991	22+	1956	4	54.1	1985	206	17	.0	@	27.8	.0	.5	.0
Mar	74.1	50.2	62.2	98	1988	27	69.9	1972	27	1971	2	53.5	1973	170	83	.0	1.8	31.0	.0	.1	.0
Apr	82.0	56.0	69.0	103	1962	19	75.8	1989	35	1999	5	59.2	1975	70	190	.6	7.1	30.0	.0	.0	.0
May	89.5	63.7	76.6	111+	1983	29	83.5	1997	31	1921	7	69.0	1977	14	372	3.2	18.0	31.0	.0	.0	.0
Jun	99.6	72.6	86.1	115+	1990	27	90.2	1994	50+	1921	17	82.6	1971	0	634	16.1	27.6	30.0	.0	.0	.0
Jul	102.2	77.5	89.9	117	1995	31	93.0	1998	58+	1999	7	86.3	1984	0	770	22.5	30.6	31.0	.0	.0	.0
Aug	100.9	76.2	88.6	115+	1972	2	92.7	1994	57+	1921	6	84.6	1971	0	731	20.9	30.2	31.0	.0	.0	.0
Sep	97.1	72.4	84.8	113	1950	2	89.1	1992	49	1965	20	76.7	1985	0	592	11.8	26.3	30.0	.0	.0	.0
Oct	86.8	63.2	75.0	107	1980	3	79.7	1991	32	1971	30	66.7	1971	18	327	2.5	13.7	31.0	.0	@	.0
Nov	74.0	51.9	63.0	95+	1924	3	68.9	1999	30+	1953	21	57.4	1972	128	65	.0	.7	30.0	.0	.3	.0
Dec	65.1	44.3	54.7	88	1999	1	62.5	1980	22	1954	28	49.4	1990	333	14	.0	.0	30.3	.0	2.9	.0
Ann	83.8	59.9	71.9	117	Jul 1995	31	93.0	Jul 1998	17	Jan 1937	22	47.9	Jan 1979	1273	3804	77.6	156.0	363.4	.0	5.5	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1914-2001

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

002-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: AJO, AZ

COOP ID: 020080

Climate Division: AZ 7

NWS Call Sign:

Elevation: 1,800 Feet Lat: 32°22N

Lon: 112°52W

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	.67	.44	1.83	1979	17	2.80	1993	.00+	1996	2.6	1.2	.3	.1	.00	.00	.05	.15	.27	.41	.58	.81	1.13	1.69	2.25
Feb	.67	.33	1.66	1920	1	2.15	1987	.00+	1996	2.6	1.4	.4	@	.00	.00	.00	.05	.15	.28	.47	.74	1.14	1.87	2.63
Mar	.76	.58	1.82	1944	14	2.27	1998	.00+	1996	3.1	1.7	.4	.1	.00	.00	.03	.13	.27	.43	.64	.91	1.30	1.97	2.66
Apr	.23	.07	1.44	1941	12	1.35	1999	.00+	1996	1.4	.7	.1	@	.00	.00	.00	.00	.00	.04	.13	.24	.42	.73	1.04
May	.15	.01	1.26	1972	31	1.26	1972	.00+	2000	.7	.3	@	@	.00	.00	.00	.00	.00	.00	.05	.13	.25	.48	.73
Jun	.05	.00	.56	1958	21	.50	1972	.00+	1999	.4	.2	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.06	.19	.31
Jul	.76	.46	3.17	1923	22	4.06	1984	.00+	2000	3.4	1.8	.3	.1	.00	.00	.11	.22	.36	.51	.70	.94	1.27	1.84	2.40
Aug	1.62	1.51	3.80	1951	28	3.33	1992	.23	1977	5.0	2.9	1.0	.4	.28	.42	.66	.88	1.11	1.35	1.63	1.97	2.42	3.16	3.86
Sep	.82	.62	4.15	1946	18	3.11	1976	.00+	2000	2.7	1.8	.5	.2	.00	.00	.06	.21	.37	.55	.76	1.03	1.40	2.01	2.63
Oct	.63	.27	1.89	1940	5	3.24	1972	.00+	1999	2.2	1.1	.5	.2	.00	.00	.00	.00	.05	.16	.34	.62	1.06	1.90	2.79
Nov	.50	.21	1.81	1965	26	2.39	1978	.00+	1999	1.9	1.0	.3	@	.00	.00	.01	.06	.14	.24	.38	.57	.85	1.35	1.88
Dec	.88	.65	1.68	1983	2	2.98	1992	.00+	2000	2.9	1.6	.4	.1	.00	.00	.00	.10	.25	.44	.69	1.02	1.51	2.38	3.26
Ann	7.74	7.64	4.15	Sep 1946	18	4.06	Jul 1984	.00+	Dec 2000	28.9	15.7	4.2	1.2	3.55	4.22	5.16	5.92	6.63	7.34	8.10	8.97	10.07	11.72	13.21

+ 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

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(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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Station: AJO, AZ

COOP ID: 020080

Climate Division: AZ 7

NWS Call Sign:

Elevation: 1,800 Feet

Lat: 32° 22N

Lon: 112° 52W

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	#	1976	1	#	1976	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	#	1974	26	#+	1974	#	1975	31	#	1975	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	#+	Jan 1976	1	#+	Jan 1976	#	Dec 1975	31	#	Dec 1975	.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:

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NWS Call Sign:

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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	3/11	3/01	2/21	2/14	2/07	1/31	1/24	1/13	0/00
32	2/11	2/01	1/25	1/18	1/11	1/02	12/18	0/00	0/00
28	1/25	1/13	1/02	12/23	12/08	0/00	0/00	0/00	0/00
24	12/26	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	11/08	11/17	11/24	11/30	12/06	12/11	12/18	12/27	0/00
32	11/19	11/29	12/06	12/12	12/19	12/28	1/12	0/00	0/00
28	12/06	12/14	12/21	12/28	1/07	0/00	0/00	0/00	0/00
24	0/00	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	>365	>365	324	309	297	287	277	265	249
32	>365	>365	>365	>365	347	329	316	303	288
28	>365	>365	>365	>365	>365	>365	>365	342	319
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

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Climate Division: AZ 7 NWS Call Sign: Elevation: 1,800 Feet Lat: 32°22N Lon: 112°52W

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	334	206	170	70	14	0	0	0	0	18	128	333	1273
60	203	107	91	28	4	0	0	0	0	4	56	207	700
57	142	65	55	15	1	0	0	0	0	1	29	149	457
55	108	41	37	9	0	0	0	0	0	0	17	116	328
50	42	10	13	1	0	0	0	0	0	0	3	49	118
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	698	735	935	1110	1382	1624	1793	1754	1582	1333	927	704	14577
55	93	132	259	430	669	934	1080	1041	892	620	255	106	6511
57	65	99	215	376	608	874	1018	979	832	559	207	77	5909
60	33	58	158	298	517	784	925	886	742	469	143	43	5056
65	9	17	83	190	372	634	770	731	592	327	65	14	3804
70	0	3	34	108	244	484	615	576	444	207	22	2	2739

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	465	561	721	895	1160	1405	1564	1533	1358	1101	686	475	465	1026	1747	2642	3802	5207	6771	8304	9662	10763	11449	11924
45	317	419	568	745	1005	1255	1409	1378	1208	946	536	323	317	736	1304	2049	3054	4309	5718	7096	8304	9250	9786	10109
50	183	283	414	595	850	1105	1254	1223	1058	791	391	186	183	466	880	1475	2325	3430	4684	5907	6965	7756	8147	8333
55	82	161	270	448	695	955	1099	1068	908	636	257	92	82	243	513	961	1656	2611	3710	4778	5686	6322	6579	6671
60	28	73	151	312	541	805	944	913	758	485	148	32	28	101	252	564	1105	1910	2854	3767	4525	5010	5158	5190
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	259	322	436	574	761	897	1007	993	891	729	429	270	259	581	1017	1591	2352	3249	4256	5249	6140	6869	7298	7568

(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