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: WICKENBURG, AZ **COOP ID: 029287**

Climate Division: AZ 6 **NWS Call Sign:** **Elevation: 2,095 Feet** **Lat: 33˚59N** **Lon: 112˚44W**

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	66.4	32.6	49.5	88	1971	19	54.0	1986	10+	1950	5	45.3	1979	481	0	.0	.0	30.4	.0	16.8	.0
Feb	70.2	35.7	53.0	89+	1986	26	58.0	1995	14	1953	21	47.9	1974	340	2	.0	.0	27.7	.1	9.3	.0
Mar	74.5	39.4	57.0	97	1971	31	66.9	1972	19	1969	8	51.0+	1977	275	26	.0	1.2	30.6	.0	5.0	.0
Apr	82.8	43.5	63.2	102+	2000	26	68.9	1989	24+	1945	11	55.4	1975	131	76	.3	7.0	30.0	.0	1.3	.0
May	91.5	50.8	71.2	114	1910	31	78.2	1997	32	1950	5	65.6	1977	32	222	3.4	18.6	31.0	.0	.1	.0
Jun	102.1	59.0	80.6	118+	1994	28	85.9	1974	38	1945	7	75.4	1982	1	467	17.8	27.9	30.0	.0	.0	.0
Jul	105.6	68.7	87.2	121	1995	28	91.2	1996	48+	1944	13	82.9	1993	0	686	25.8	30.8	31.0	.0	.0	.0
Aug	103.5	68.6	86.1	117	1995	3	89.8	1994	47	1938	18	82.1	1979	0	652	22.1	29.9	31.0	.0	.0	.0
Sep	98.0	60.6	79.3	116	1950	1	84.1	1997	37	1945	26	73.9	1986	1	429	9.6	25.9	30.0	.0	.1	.0
Oct	87.2	48.7	68.0	109	1910	8	72.5	1988	23	1971	30	61.7	1971	60	151	1.6	10.7	31.0	.0	.4	.0
Nov	74.4	37.3	55.9	95	1908	17	61.8	1995	16	1911	23	50.8	2000	284	9	.0	.5	29.6	.0	7.5	.0
Dec	66.9	31.9	49.4	87	1950	10	55.9	1980	10	1945	20	45.3	1974	484	0	.0	.0	30.4	.0	18.3	.0
Ann	85.3	48.1	66.7	121	Jul 1995	28	91.2	Jul 1996	10+	Jan 1950	5	45.3+	Jan 1979	2089	2720	80.6	152.5	362.7	.1	58.8	.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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1908-2001

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

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COOP ID: 029287

Climate Division: AZ 6 **NWS Call Sign:** **Elevation: 2,095 Feet** **Lat: 33°59N** **Lon: 112°44W**

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	1.39	1.00	2.28	1915	29	5.34	1993	.00	1972
Feb	1.50	1.02	2.18	1992	7	5.20	1993	.00+	1989
Mar	1.59	1.06	2.11	1983	3	5.68	1978	.00+	1997
Apr	.45	.25	1.50+	1941	11	2.01	1988	.00+	1996
May	.27	.08	1.12	1957	13	1.80	1992	.00+	2000
Jun	.14	.00	.85	1955	14	.66+	1986	.00+	1998
Jul	1.21	.87	2.30	1990	6	4.29	1990	.00+	2000
Aug	1.83	1.41	3.01	1935	26	5.26	1988	.29	1975
Sep	1.32	.85	3.03	1997	26	5.45	1976	.00+	2000
Oct	.69	.35	2.29	2000	22	4.03	2000	.00+	1999
Nov	.87	.48	1.60	1981	28	4.20	1978	.00+	1999
Dec	.99	.65	1.97	1931	10	3.46	1992	.00+	2000
Ann	12.25	11.82	3.03	Sep 1997	26	5.68	Mar 1978	.00+	Dec 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.6	2.9	.9	.3
Feb	4.2	2.8	1.1	.4
Mar	5.2	3.2	1.0	.3
Apr	2.3	1.1	.2	@
May	1.6	.8	.1	.0
Jun	.9	.4	@	.0
Jul	4.3	2.6	.6	.3
Aug	5.6	3.6	1.3	.4
Sep	3.6	2.3	.9	.4
Oct	2.7	1.6	.4	.1
Nov	2.5	1.5	.7	.2
Dec	3.6	2.0	.7	.1
Ann	41.1	24.8	7.9	2.5

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	.00	.04	.14	.30	.50	.77	1.12	1.60	2.31	3.57	4.88
Feb	.00	.00	.20	.47	.74	1.06	1.42	1.88	2.52	3.56	4.59
Mar	.00	.00	.22	.50	.79	1.12	1.51	1.99	2.66	3.75	4.84
Apr	.00	.00	.00	.06	.15	.25	.37	.54	.78	1.19	1.60
May	.00	.00	.00	.00	.00	.05	.18	.33	.52	.83	1.13
Jun	.00	.00	.00	.00	.00	.00	.00	.12	.27	.49	.71
Jul	.00	.00	.17	.36	.57	.81	1.10	1.48	2.01	2.90	3.80
Aug	.38	.55	.81	1.06	1.30	1.57	1.86	2.22	2.69	3.45	4.16
Sep	.00	.00	.04	.21	.44	.73	1.09	1.57	2.27	3.48	4.74
Oct	.00	.00	.00	.08	.20	.36	.55	.81	1.19	1.86	2.54
Nov	.00	.00	.00	.11	.26	.46	.70	1.03	1.51	2.35	3.19
Dec	.00	.00	.00	.15	.34	.57	.84	1.20	1.71	2.59	3.47
Ann	6.84	7.79	9.06	10.06	10.97	11.87	12.82	13.89	15.21	17.18	18.92

\+ 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: 1908-2001
(3) Derived from 1971-2000 serially complete daily data

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Climate Division: AZ 6 **NWS Call Sign:** **Elevation: 2,095 Feet** **Lat: 33°59N** **Lon: 112°44W**

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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.2	.0	0	0	6.0	1985	3	6.0	1985	0	0	0	0	0	@	@	@	@	.0	.0	.0	.0	.0
Mar	.0	.0	#	0	.4	1976	4	.4	1976	#	1976	4	#	1976	@	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	#	0	#	1999	2	#	1999	#	1999	2	#	1999	.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	.1	.0	0	0	2.0	1998	6	2.0	1998	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	6.0	Feb 1985	3	6.0	Feb 1985	#+	Apr 1999	2	#+	Apr 1999	@	@	@	@	.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	5/11	5/03	4/27	4/22	4/17	4/12	4/07	4/01	3/24
32	4/26	4/15	4/08	4/02	3/27	3/21	3/15	3/08	2/25
28	4/12	3/29	3/19	3/10	3/02	2/22	2/14	2/04	1/20
24	3/08	2/23	2/13	2/05	1/28	1/20	1/10	12/30	12/08
20	2/08	1/22	1/09	12/25	11/30	0/00	0/00	0/00	0/00
16	1/28	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	10/13	10/19	10/23	10/27	10/30	11/03	11/07	11/11	11/17
32	10/21	10/27	11/01	11/05	11/09	11/13	11/17	11/22	11/28
28	11/02	11/09	11/15	11/19	11/24	11/28	12/02	12/08	12/15
24	11/19	11/27	12/03	12/08	12/13	12/18	12/24	1/01	0/00
20	12/07	12/19	12/30	1/12	0/00	0/00	0/00	0/00	0/00
16	2/01	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	227	216	208	202	196	190	183	175	165
32	259	248	240	233	226	220	213	205	193
28	306	292	282	273	265	257	249	239	225
24	>365	>365	349	334	323	312	301	289	272
20	>365	>365	>365	>365	>365	>365	>365	342	320
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	481	340	275	131	32	1	0	0	1	60	284	484	2089
60	327	210	165	60	8	0	0	0	0	19	162	332	1283
57	240	142	114	32	3	0	0	0	0	8	105	247	891
55	185	105	84	20	1	0	0	0	0	4	74	195	668
50	81	37	32	5	0	0	0	0	0	0	24	94	273
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	542	586	774	935	1214	1456	1709	1675	1418	1115	716	539	12679
55	14	47	145	265	502	766	996	962	728	406	100	21	4952
57	7	28	113	217	442	706	934	900	668	347	70	11	4443
60	1	12	71	155	354	616	841	807	578	266	38	4	3743
65	0	2	26	76	222	467	686	652	429	151	9	0	2720
70	0	0	8	26	121	323	531	497	287	70	1	0	1864

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	291	376	517	694	955	1194	1450	1399	1156	845	460	293	291	667	1184	1878	2833	4027	5477	6876	8032	8877	9337	9630
45	156	239	368	544	800	1044	1295	1244	1006	691	313	155	156	395	763	1307	2107	3151	4446	5690	6696	7387	7700	7855
50	58	117	224	396	646	894	1140	1089	856	537	184	55	58	175	399	795	1441	2335	3475	4564	5420	5957	6141	6196
55	9	42	112	258	491	744	985	934	706	389	82	4	9	51	163	421	912	1656	2641	3575	4281	4670	4752	4756
60	0	6	44	140	341	595	830	779	557	247	23	0	0	6	50	190	531	1126	1956	2735	3292	3539	3562	3562
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	254	296	376	473	581	678	855	842	700	543	357	260	254	550	926	1399	1980	2658	3513	4355	5055	5598	5955	6215

(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