

Climatology of the United States

No. 20

1971-2000

Station: BEAVER DAM, AZ

COOP ID: 020672

Climate Division: AZ 1

NWS Call Sign:

Elevation: 1,875 Feet Lat: 36° 54N

Lon: 113° 57W

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	57.7	33.2	45.5	78	1971	21	52.7	1986	12+	1971	5	39.7	1979	606	0	.0	.0	26.7	.0	15.9	.0
Feb	64.1	37.4	50.8	87+	1986	26	56.1	1995	14	1985	1	46.4	1979	399	0	.0	.0	27.0	.1	7.9	.0
Mar	70.9	41.9	56.4	91+	1997	20	62.7	1972	19	1975	29	49.0	1991	293	26	.0	.2	30.8	.0	3.7	.0
Apr	79.9	48.1	64.0	101+	2000	26	71.0	2000	27	1999	1	57.2	1975	135	105	.1	4.7	30.0	.0	.7	.0
May	89.8	57.9	73.9	110	2000	23	81.1	1997	33	1975	7	67.0	1991	26	300	3.8	16.3	31.0	.0	.0	.0
Jun	100.6	66.9	83.8	117	1970	27	88.2	1974	42	1979	18	78.6	1991	0	561	16.7	27.4	30.0	.0	.0	.0
Jul	105.3	73.7	89.5	120	1998	16	93.1	1971	50	1958	5	86.5	1982	0	761	27.3	30.7	31.0	.0	.0	.0
Aug	103.2	72.8	88.0	115+	1980	11	91.6	1994	51+	1980	31	83.9	1979	0	713	22.8	30.3	31.0	.0	.0	.0
Sep	96.0	65.0	80.5	110+	1982	2	84.4	1974	37	1971	30	74.9	1986	1	466	9.3	24.6	30.0	.0	.0	.0
Oct	83.6	52.5	68.1	106	1980	1	74.7	1988	27+	1971	30	62.7	1984	70	164	.6	7.8	30.9	.0	.4	.0
Nov	68.0	40.0	54.0	89	1980	5	59.6	1995	15	1976	28	48.2	1994	338	8	.0	.0	29.3	.0	6.5	.0
Dec	58.5	32.7	45.6	85	1956	5	52.7	1980	4	1990	23	38.2	1990	602	0	.0	.0	27.4	.1	16.6	.0
Ann	81.5	51.8	66.7	120	Jul 1998	16	93.1	Jul 1971	4	Dec 1990	23	38.2	Dec 1990	2470	3104	80.6	142.0	355.1	.2	51.7	.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: 1956-2001

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

008-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: BEAVER DAM, AZ

COOP ID: 020672

Climate Division: AZ 1

NWS Call Sign:

Elevation: 1,875 Feet Lat: 36°54N

Lon: 113°57W

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	1.01	.76	1.11	1980	29	3.17	1993	.00+	1976	5.4	3.2	.4	.1	.00	.08	.24	.40	.56	.75	.98	1.25	1.62	2.25	2.87
Feb	.95	.70	1.02	1969	26	4.19	1998	.00+	1977	5.3	2.9	.6	@	.00	.00	.19	.35	.52	.70	.92	1.20	1.56	2.18	2.78
Mar	1.09	.69	.98	1979	28	3.23	1992	.00+	1999	6.3	3.5	.4	.0	.00	.00	.17	.34	.53	.75	1.01	1.34	1.80	2.58	3.35
Apr	.37	.23	.63	1967	12	1.50	1988	.00+	1992	3.4	1.2	@	.0	.00	.00	.05	.11	.17	.25	.34	.45	.62	.89	1.17
May	.34	.19	1.35	1958	11	1.96	1977	.00	1984	2.7	1.1	.1	.0	.00	.01	.04	.07	.13	.19	.28	.40	.57	.88	1.20
Jun	.18	.03	.67	2000	29	1.12	1987	.00+	1986	1.4	.5	.1	.0	.00	.00	.00	.00	.01	.04	.09	.17	.30	.53	.79
Jul	.53	.34	1.25	1991	9	3.19	1984	.00+	2000	2.8	1.3	.3	.1	.00	.01	.07	.14	.22	.33	.46	.63	.88	1.32	1.76
Aug	.67	.61	1.11	1998	24	2.24	1983	.00+	1985	3.9	1.8	.4	@	.00	.10	.24	.35	.45	.57	.69	.84	1.05	1.37	1.69
Sep	.48	.27	1.01	1972	19	1.78	1972	.00+	2000	2.8	1.3	.2	@	.00	.00	.03	.09	.17	.27	.40	.57	.81	1.23	1.66
Oct	.76	.61	1.21	1983	1	2.15	1987	.00+	1999	4.0	2.1	.3	@	.00	.05	.16	.27	.40	.54	.72	.93	1.23	1.73	2.23
Nov	.69	.62	1.63	1967	29	2.06	1978	.00+	1999	3.7	1.9	.4	@	.00	.00	.15	.27	.39	.52	.68	.87	1.12	1.54	1.96
Dec	.52	.32	1.24	1971	25	2.22	1984	.00+	1999	3.5	1.7	.1	@	.00	.00	.05	.11	.20	.31	.44	.62	.88	1.33	1.80
Ann	7.59	7.20	1.63	Nov 1967	29	4.19	Feb 1998	.00+	Sep 2000	45.2	22.5	3.3	.2	4.19	4.79	5.58	6.21	6.78	7.35	7.94	8.62	9.45	10.69	11.79

+ 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: 1956-2001

(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

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
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Station: BEAVER DAM, AZ

COOP ID: 020672

Climate Division: AZ 1

NWS Call Sign:

Elevation: 1,875 Feet

Lat: 36° 54N

Lon: 113° 57W

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	.2	.0	0	0	2.5	1975	28	2.5	1975	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	1.0	1979	1	1.0	1979	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	1.0	1975	29	1.0	1975	#	1971	16	#	1971	@	@	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	1.0	1990	20	1.0	1990	1	1990	31	#	1990	@	@	.0	.0	.0	@	.0	.0	.0
Ann	.2	.0	N/A	N/A	2.5	Jan 1975	28	2.5	Jan 1975	1	Dec 1990	31	#+	Dec 1990	.1	.1	.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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No. 20 1971-2000

Station: BEAVER DAM, AZ

COOP ID: 020672

Climate Division: AZ 1

NWS Call Sign:

Elevation: 1,875 Feet

Lat: 36° 54N

Lon: 113° 57W

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	5/03	4/25	4/19	4/13	4/08	4/03	3/29	3/23	3/14
32	4/21	4/12	4/05	3/30	3/25	3/19	3/14	3/07	2/26
28	3/29	3/19	3/12	3/07	3/01	2/24	2/18	2/11	2/02
24	3/03	2/20	2/12	2/05	1/29	1/23	1/16	1/07	12/27
20	2/15	2/03	1/25	1/16	1/07	12/27	12/08	0/00	0/00
16	1/09	12/20	11/24	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	10/18	10/23	10/27	10/30	11/02	11/05	11/08	11/11	11/16
32	10/24	10/30	11/03	11/06	11/09	11/13	11/16	11/20	11/26
28	11/07	11/12	11/16	11/19	11/22	11/25	11/28	12/02	12/07
24	11/19	11/25	11/29	12/03	12/06	12/09	12/13	12/17	12/23
20	11/28	12/09	12/17	12/25	1/03	1/14	0/00	0/00	0/00
16	12/08	12/27	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	236	226	219	213	207	201	195	188	178
32	260	249	241	235	229	223	216	209	198
28	294	284	277	271	265	259	253	246	236
24	354	334	323	315	308	300	293	284	271
20	>365	>365	>365	>365	>365	351	334	321	306
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:
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Climate Division: AZ 1 NWS Call Sign: Elevation: 1,875 Feet Lat: 36° 54N Lon: 113° 57W

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	606	399	293	135	26	0	0	0	1	70	338	602	2470
60	451	264	179	68	8	0	0	0	0	27	211	448	1656
57	365	190	126	40	3	0	0	0	0	13	147	361	1245
55	307	146	96	27	2	0	0	0	0	7	111	305	1001
50	182	63	38	9	0	0	0	0	0	1	46	181	520
32	3	0	0	0	0	0	0	0	0	0	0	4	7

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	420	525	756	960	1297	1551	1784	1736	1455	1117	660	425	12686
55	11	27	139	296	585	861	1071	1023	765	412	80	13	5283
57	7	15	107	249	525	801	1009	961	705	355	57	8	4799
60	0	5	68	187	437	711	916	868	615	276	31	1	4115
65	0	0	26	105	300	561	761	713	466	164	8	0	3104
70	0	0	8	47	186	413	606	558	320	82	1	0	2221

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	189	319	504	693	1016	1270	1489	1444	1169	821	390	193	189	508	1012	1705	2721	3991	5480	6924	8093	8914	9304	9497
45	83	190	352	543	861	1120	1334	1289	1019	666	253	84	83	273	625	1168	2029	3149	4483	5772	6791	7457	7710	7794
50	21	88	215	398	706	970	1179	1134	869	512	141	24	21	109	324	722	1428	2398	3577	4711	5580	6092	6233	6257
55	1	28	106	265	551	820	1024	979	719	367	59	1	1	29	135	400	951	1771	2795	3774	4493	4860	4919	4920
60	0	5	44	151	401	670	869	824	569	237	20	0	0	5	49	200	601	1271	2140	2964	3533	3770	3790	3790
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	140	223	337	452	633	760	878	877	719	519	267	147	140	363	700	1152	1785	2545	3423	4300	5019	5538	5805	5952

(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