

Climatography of the United States No. 20

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

Station: BOUSE, AZ

1971-2000

COOP ID: 020949

Climate Division: AZ 5

NWS Call Sign:

Elevation: 925 Feet

Lat: 33° 57N

Lon: 114° 01W

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	35.5	50.3	88	1959	18	56.6	1986	11	1974	3	44.6	1979	458	0	.0	.0	30.6	.0	10.4	.0
Feb	70.5	39.6	55.1	92	1986	28	60.1	1995	16+	1956	3	51.3+	1979	281	3	.0	.2	27.8	@	4.2	.0
Mar	76.5	44.3	60.4	96+	1997	21	66.3	1972	20+	1966	4	54.0	1973	188	45	.0	2.2	31.0	.0	1.2	.0
Apr	85.2	50.5	67.9	105+	1959	29	74.6	1989	27	1953	9	60.1	1975	72	157	1.2	10.8	30.0	.0	.1	.0
May	93.9	59.3	76.6	115	1983	28	83.7	1997	35	1967	1	70.7	1977	10	370	7.5	23.6	31.0	.0	.0	.0
Jun	104.2	68.0	86.1	120	1994	29	90.7	1981	42	1954	7	82.2	1998	0	632	24.0	29.2	30.0	.0	.0	.0
Jul	107.6	76.7	92.2	123	1958	9	96.0	1981	57+	1956	4	89.0	1993	0	842	29.6	31.0	31.0	.0	.0	.0
Aug	105.5	75.4	90.5	117+	1993	1	94.3	1995	48	1968	23	87.3	1979	0	790	27.9	30.7	31.0	.0	.0	.0
Sep	99.5	67.2	83.4	117	1995	6	87.7	1995	40	1955	20	77.3	1986	0	551	17.1	28.1	30.0	.0	.0	.0
Oct	87.5	54.0	70.8	109+	1980	3	76.5	1988	24	1971	30	65.6	1971	35	213	3.2	14.5	31.0	.0	.1	.0
Nov	73.4	41.1	57.3	96+	1959	8	63.5	1995	19	1957	30	52.0	2000	249	17	.0	.5	30.0	.0	3.4	.0
Dec	64.7	34.8	49.8	92	1958	3	55.2	1977	15	1954	30	45.1	1990	472	0	.0	.0	30.5	.0	11.6	.0
Ann	86.1	53.9	70.0	123	Jul 1958	9	96.0	Jul 1981	11	Jan 1974	3	44.6	Jan 1979	1765	3620	110.5	170.8	363.9	@	31.0	.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: 1952-2001

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

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: BOUSE, AZ

COOP ID: 020949

Climate Division: AZ 5

NWS Call Sign:

Elevation: 925 Feet Lat: 33°57N

Lon: 114°01W

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	.71	.40	1.00	1978	10	3.74	1993	.00+	1976	3.5	2.0	.3	@	.00	.00	.04	.12	.23	.37	.55	.81	1.19	1.86	2.56
Feb	.77	.45	1.40	1993	8	2.96	1980	.00+	1989	3.5	2.0	.4	.1	.00	.00	.06	.20	.35	.51	.71	.96	1.31	1.88	2.46
Mar	.66	.53	1.27	2001	7	2.35	1973	.00+	1997	3.6	1.8	.3	@	.00	.00	.01	.09	.20	.34	.52	.77	1.13	1.77	2.44
Apr	.19	.02	1.25	1952	28	1.66	1988	.00+	2000	1.2	.6	.1	@	.00	.00	.00	.00	.00	.01	.06	.16	.31	.60	.90
May	.12	.03	1.19	1992	6	1.28	1992	.00+	2000	1.0	.2	.1	@	.00	.00	.00	.00	.00	.01	.05	.10	.19	.37	.55
Jun	.07	.00	1.18	1959	14	.81	1972	.00+	1998	.6	.2	@	.0	.00	.00	.00	.00	.00	.00	.00	.03	.10	.23	.37
Jul	.50	.43	1.75	1957	17	2.56	1984	.00+	2000	2.4	1.2	.3	@	.00	.00	.00	.10	.21	.34	.47	.65	.88	1.26	1.63
Aug	.98	.47	2.75	1982	12	4.53	1988	.00	1985	3.7	2.0	.6	.3	.00	.03	.11	.22	.37	.56	.80	1.14	1.63	2.51	3.42
Sep	.64	.35	1.72	1998	9	4.15	1998	.00+	2000	2.4	1.3	.4	.1	.00	.00	.00	.02	.11	.26	.45	.72	1.11	1.82	2.56
Oct	.36	.18	1.69	1978	21	2.01	1972	.00+	1999	2.1	1.0	.2	@	.00	.00	.00	.03	.09	.16	.27	.41	.62	1.01	1.41
Nov	.37	.27	1.10	1969	10	1.58	1985	.00+	2000	2.2	1.1	.2	.0	.00	.00	.00	.04	.11	.20	.31	.45	.65	1.00	1.34
Dec	.52	.22	1.23	1997	22	2.37	1984	.00+	2000	2.6	1.2	.3	@	.00	.00	.00	.03	.12	.23	.38	.59	.90	1.44	2.00
Ann	5.89	5.10	2.75	Aug 1982	12	4.53	Aug 1988	.00+	Dec 2000	28.8	14.6	3.2	.5	2.28	2.83	3.61	4.25	4.86	5.48	6.15	6.93	7.92	9.43	10.81

+ 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: 1952-2001

(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: BOUSE, AZ

COOP ID: 020949

Climate Division: AZ 5

NWS Call Sign:

Elevation: 925 Feet

Lat: 33°57N

Lon: 114°01W

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/normal/usnormals.html

Climatography of the United States

No. 20 1971-2000

Station: BOUSE, AZ

COOP ID: 020949

Climate Division: AZ 5

NWS Call Sign:

Elevation: 925 Feet

Lat: 33° 57N

Lon: 114° 01W

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	4/13	4/05	3/30	3/25	3/20	3/15	3/10	3/04	2/23
32	3/30	3/20	3/13	3/07	3/02	2/24	2/18	2/12	2/02
28	3/07	2/24	2/17	2/10	2/04	1/29	1/22	1/14	1/02
24	2/16	2/03	1/25	1/16	1/08	12/30	12/19	11/28	0/00
20	1/16	1/06	12/28	12/15	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	10/27	11/01	11/05	11/08	11/11	11/13	11/17	11/20	11/25
32	11/08	11/13	11/17	11/20	11/22	11/25	11/28	12/01	12/06
28	11/11	11/19	11/25	11/30	12/05	12/09	12/14	12/21	12/30
24	11/23	12/04	12/12	12/19	12/26	1/03	1/12	1/30	0/00
20	12/17	12/25	1/01	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	264	254	247	241	235	229	223	216	206
32	298	286	278	271	265	258	251	243	232
28	354	333	321	312	304	296	288	279	266
24	>365	>365	>365	>365	355	337	324	312	296
20	>365	>365	>365	>365	>365	>365	>365	>365	345
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

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

Station: BOUSE, AZ

COOP ID: 020949

Climate Division: AZ 5

NWS Call Sign:

Elevation: 925 Feet Lat: 33°57N Lon: 114°01W

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	458	281	188	72	10	0	0	0	0	35	249	472	1765
60	310	157	97	27	2	0	0	0	0	9	137	323	1062
57	227	99	56	14	0	0	0	0	0	4	86	239	725
55	178	69	36	8	0	0	0	0	0	2	60	188	541
50	85	18	10	1	0	0	0	0	0	0	18	91	223
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	565	646	880	1075	1382	1622	1865	1813	1541	1201	758	551	13899
55	30	71	203	393	669	932	1152	1100	851	489	128	25	6043
57	17	45	162	339	608	872	1090	1038	791	429	94	14	5499
60	7	19	109	262	517	782	997	945	701	342	55	6	4742
65	0	3	45	157	370	632	842	790	551	213	17	0	3620
70	0	0	14	80	239	482	687	635	402	112	3	0	2654

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	343	462	654	851	1151	1398	1627	1582	1319	970	535	327	343	805	1459	2310	3461	4859	6486	8068	9387	10357	10892	11219
45	200	320	499	701	996	1248	1472	1427	1169	815	386	187	200	520	1019	1720	2716	3964	5436	6863	8032	8847	9233	9420
50	88	187	346	551	841	1098	1317	1272	1019	660	247	79	88	275	621	1172	2013	3111	4428	5700	6719	7379	7626	7705
55	27	84	203	405	686	948	1162	1117	869	506	134	16	27	111	314	719	1405	2353	3515	4632	5501	6007	6141	6157
60	0	24	93	264	531	798	1007	962	719	358	52	0	0	24	117	381	912	1710	2717	3679	4398	4756	4808	4808
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	250	317	428	539	705	818	977	961	806	611	369	245	250	567	995	1534	2239	3057	4034	4995	5801	6412	6781	7026

(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 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.

- | | |
|---|---|
| <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