

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: AGUILA, AZ

1971-2000

COOP ID: 020060

Climate Division: AZ 6

NWS Call Sign:

Elevation: 2,165 Feet Lat: 33° 57N

Lon: 113° 11W

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	62.6	32.8	47.7	84	1940	28	52.4	2000	11+	1950	5	41.9	1979	536	0	.0	.0	30.2	.0	13.2	.0
Feb	66.0	35.5	50.8	89	1986	26	56.0	1995	12	1956	3	46.7	1998	399	0	.0	.0	27.4	.1	7.4	.0
Mar	70.6	39.1	54.9	94	1997	21	61.3	1972	18+	1966	3	48.0	1973	325	12	.0	.2	31.0	.0	2.9	.0
Apr	78.8	43.7	61.3	100+	1949	23	68.6	1989	26	1955	4	54.8	1975	176	64	.0	3.9	30.0	.0	.6	.0
May	87.6	52.1	69.9	110	1951	26	77.4	1997	30	1965	8	64.8	1971	48	198	1.6	14.1	31.0	.0	@	.0
Jun	97.8	60.6	79.2	116	1961	25	84.0	1981	40	1950	8	74.1	1998	1	427	13.4	27.2	30.0	.0	.0	.0
Jul	101.0	69.6	85.3	117	1958	11	88.0	1996	49	1955	1	81.9	1987	0	629	21.8	30.2	31.0	.0	.0	.0
Aug	99.1	69.5	84.3	114	1944	4	87.7	1996	47	1957	31	81.2	1979	0	599	17.3	29.6	31.0	.0	.0	.0
Sep	93.7	62.2	78.0	115	1950	1	81.2	1997	40	1965	21	72.6	1986	1	389	4.6	24.5	30.0	.0	.0	.0
Oct	83.2	50.0	66.6	105+	1980	3	72.7	1988	24	1935	31	61.0	1971	78	127	.5	7.6	31.0	.0	.2	.0
Nov	70.8	38.1	54.5	94	1968	4	60.8	1995	19	1956	21	49.1	2000	325	8	.0	@	29.9	.0	4.5	.0
Dec	62.9	32.3	47.6	85	1939	7	53.3	1980	15	1968	24	43.4	1974	540	0	.0	.0	29.6	.0	14.8	.0
Ann	81.2	48.8	65.0	117	Jul 1958	11	88.0	Jul 1996	11+	Jan 1950	5	41.9	Jan 1979	2429	2453	59.2	137.3	362.1	.1	43.6	.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: 1924-2001

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

001-A

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Station: AGUILA, AZ

COOP ID: 020060

Climate Division: AZ 6

NWS Call Sign:

Elevation: 2,165 Feet Lat: 33°57N

Lon: 113°11W

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	1.03	.62	2.23	1989	4	4.24	1993	.00+	2000	4.5	2.2	.6	.1	.00	.00	.09	.28	.48	.71	.97	1.30	1.75	2.48	3.24
Feb	1.04	.71	1.71	1995	15	4.78	1993	.00+	1989	3.6	2.2	.8	.2	.00	.02	.12	.25	.42	.62	.89	1.23	1.74	2.63	3.53
Mar	1.13	.66	3.05	1937	16	4.15	1983	.00+	1997	3.8	2.6	.6	.2	.00	.02	.12	.26	.44	.66	.95	1.33	1.88	2.86	3.86
Apr	.16	.05	2.00	1931	29	.80	1999	.00+	2000	1.8	.8	.1	.0	.00	.00	.00	.00	.01	.05	.11	.19	.29	.48	.66
May	.13	.02	.99	1930	4	1.05	1982	.00+	2000	1.1	.6	.1	.0	.00	.00	.00	.00	.00	.01	.06	.13	.23	.42	.60
Jun	.13	.00	2.00	2000	29	2.09	2000	.00+	1998	.5	.2	@	@	.00	.00	.00	.00	.00	.00	.00	.01	.12	.42	.77
Jul	.94	.63	2.20	1998	23	3.71	1999	.00+	1997	3.2	1.9	.5	.2	.00	.00	.20	.38	.55	.74	.94	1.20	1.54	2.07	2.60
Aug	1.17	.84	3.50	1983	17	4.85	1983	.00+	1996	3.0	2.0	.6	.1	.00	.05	.21	.38	.57	.80	1.08	1.43	1.93	2.78	3.62
Sep	.70	.35	2.85	1925	19	4.84	1983	.00+	2000	2.1	1.6	.6	.2	.00	.00	.00	.02	.14	.30	.52	.81	1.23	1.99	2.76
Oct	.64	.09	4.50	2000	22	5.70	2000	.00+	1999	1.7	.9	.3	.1	.00	.00	.00	.00	.00	.08	.24	.53	1.03	2.03	3.12
Nov	.55	.20	2.56	1985	26	3.98	1985	.00+	2000	2.1	1.2	.3	.1	.00	.00	.00	.00	.03	.17	.36	.62	.99	1.65	2.32
Dec	.68	.34	2.25	1931	9	3.15	1984	.00+	1999	2.7	1.4	.5	.1	.00	.00	.01	.08	.19	.33	.52	.78	1.16	1.85	2.57
Ann	8.30	8.62	4.50	Oct 2000	22	5.70	Oct 2000	.00+	Nov 2000	30.1	17.6	5.0	1.3	3.49	4.24	5.30	6.17	6.99	7.82	8.71	9.74	11.03	13.01	14.81

+ 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: 1924-2001

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

Complete documentation available from:
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Station: AGUILA, AZ

COOP ID: 020060

Climate Division: AZ 6

NWS Call Sign:

Elevation: 2,165 Feet

Lat: 33°57N

Lon: 113°11W

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	.1	.0	#	0	1.0	1979	29	1.0	1979	1	1979	29	#	1979	.1	.1	.0	.0	.0	.1	.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	#	1975	27	#	1975	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	#	1975	29	#	1975	#	1975	29	#	1975	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1978	6	#	1978	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	1.0	Jan 1979	29	1.0	Jan 1979	1	Jan 1979	29	#+	Jan 1979	.1	.1	.0	.0	.0	.1	.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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No. 20
1971-2000**

Station: AGUILA, AZ

COOP ID: 020060

Climate Division: AZ 6

NWS Call Sign:

Elevation: 2,165 Feet

Lat: 33° 57N

Lon: 113° 11W

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	5/06	4/28	4/23	4/18	4/14	4/10	4/05	3/31	3/23
32	4/18	4/08	4/01	3/26	3/21	3/15	3/09	3/02	2/20
28	3/24	3/11	3/01	2/21	2/14	2/06	1/28	1/18	1/02
24	2/19	2/04	1/25	1/15	1/06	12/27	12/14	11/21	0/00
20	1/22	1/08	12/27	12/14	11/23	0/00	0/00	0/00	0/00
16	12/17	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	10/19	10/24	10/28	10/31	11/03	11/05	11/08	11/12	11/17
32	10/30	11/05	11/09	11/13	11/16	11/20	11/24	11/28	12/04
28	11/13	11/18	11/22	11/25	11/28	12/01	12/05	12/09	12/15
24	11/22	12/01	12/08	12/14	12/20	12/26	1/03	1/18	0/00
20	12/02	12/16	12/29	1/12	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	231	221	214	207	202	196	190	183	173
32	275	263	254	247	240	233	226	217	205
28	>365	321	307	296	287	279	270	259	245
24	>365	>365	>365	>365	350	328	315	303	288
20	>365	>365	>365	>365	>365	>365	>365	358	328
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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Station: AGUILA, AZ

COOP ID: 020060

Climate Division: AZ 6 NWS Call Sign: Elevation: 2,165 Feet Lat: 33° 57N Lon: 113° 11W

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	536	399	325	176	48	1	0	0	1	78	325	540	2429
60	382	264	198	95	16	0	0	0	0	30	199	387	1571
57	295	189	138	59	7	0	0	0	0	14	137	300	1139
55	239	145	104	40	4	0	0	0	0	8	102	245	887
50	123	63	40	14	0	0	0	0	0	1	41	130	412
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	487	525	709	878	1173	1416	1652	1622	1378	1073	673	483	12069
55	12	26	101	227	464	726	939	909	688	367	85	15	4559
57	7	14	72	186	405	666	877	847	628	311	60	8	4081
60	0	5	39	133	321	576	784	754	538	234	32	2	3418
65	0	0	12	64	198	427	629	599	389	127	8	0	2453
70	0	0	2	24	105	284	474	444	246	55	1	0	1635

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	271	337	485	669	946	1201	1422	1387	1153	848	462	267	271	608	1093	1762	2708	3909	5331	6718	7871	8719	9181	9448
45	134	202	330	520	791	1051	1267	1232	1003	693	314	139	134	336	666	1186	1977	3028	4295	5527	6530	7223	7537	7676
50	41	94	189	372	636	901	1112	1077	853	539	187	42	41	135	324	696	1332	2233	3345	4422	5275	5814	6001	6043
55	2	29	79	240	483	751	957	922	703	388	81	4	2	31	110	350	833	1584	2541	3463	4166	4554	4635	4639
60	0	2	22	127	333	601	802	767	553	247	24	0	0	2	24	151	484	1085	1887	2654	3207	3454	3478	3478
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	210	245	329	444	594	718	875	870	728	543	330	216	210	455	784	1228	1822	2540	3415	4285	5013	5556	5886	6102

(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/normal/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