

Climatology of the United States

No. 20

1971-2000

Station: BAGDAD, AZ

COOP ID: 020586

Climate Division: AZ 3

NWS Call Sign:

Elevation: 3,705 Feet Lat: 34° 34N

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	58.5	33.6	46.1	83	1971	18	51.8	1986	9	1971	7	39.6	1979	588	0	.0	.0	26.5	@	16.6	.0
Feb	61.9	35.7	48.8	84	1930	18	55.4	1991	11	1939	2	44.3	1998	454	0	.0	.0	25.8	.2	11.0	.0
Mar	65.6	39.0	52.3	88	1934	17	60.1	1972	17	1966	3	43.6	1973	408	15	.0	.0	29.5	.0	7.6	.0
Apr	73.9	44.5	59.2	100	2000	26	66.3	1989	27	1929	6	50.7	1975	218	45	@	.5	29.7	.0	3.7	.0
May	82.8	53.0	67.9	102+	2001	31	75.1	2000	32+	1967	1	61.5	1977	73	163	.2	4.3	31.0	.0	.8	.0
Jun	93.2	61.9	77.6	114	1929	25	81.9	1994	44+	1944	17	73.3	1991	2	379	3.6	19.8	30.0	.0	.1	.0
Jul	97.1	67.8	82.5	110+	1996	25	86.0	1996	52+	1968	7	79.3	1987	0	541	7.4	27.6	31.0	.0	.0	.0
Aug	95.5	66.6	81.1	110+	1940	9	85.1	1994	48	1968	15	78.0	1976	0	497	4.1	25.3	31.0	.0	.0	.0
Sep	90.0	61.1	75.6	108	1950	2	79.3	1995	40	1965	20	69.7	1986	4	320	.7	13.9	30.0	.0	.1	.0
Oct	79.3	50.8	65.1	98+	1996	11	70.9	1988	25	1971	30	58.7	1971	104	106	.0	3.1	31.0	.0	2.3	.0
Nov	67.4	39.4	53.4	88+	1934	8	60.8	1999	18	1958	17	47.9	1994	358	9	.0	.0	28.9	.0	8.2	.0
Dec	59.6	33.9	46.8	81+	1940	9	52.2	1980	8	1990	23	41.1	1971	567	0	.0	.0	27.0	@	15.6	.0
Ann	77.1	48.9	63.0	114	Jun 1929	25	86.0	Jul 1996	8	Dec 1990	23	39.6	Jan 1979	2776	2075	16.0	94.5	351.4	.2	66.0	.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: 1925-2001

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

005-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: BAGDAD, AZ

COOP ID: 020586

Climate Division: AZ 3

NWS Call Sign:

Elevation: 3,705 Feet Lat: 34°34N

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	2.05	1.52	2.05	1993	8	9.56	1993	.00	1972	5.7	3.5	1.2	.6	.02	.09	.29	.54	.86	1.25	1.75	2.41	3.38	5.06	6.78
Feb	2.29	1.34	3.01	1993	9	8.06	1993	.00	1972	5.6	3.9	1.6	.9	.07	.24	.56	.89	1.25	1.67	2.17	2.80	3.68	5.15	6.60
Mar	2.01	1.80	3.08	1978	1	7.76	1991	.00	1972	6.8	4.2	1.3	.4	.02	.10	.31	.56	.88	1.26	1.75	2.38	3.30	4.90	6.52
Apr	.59	.33	1.50	1941	12	2.57	1976	.00+	2000	3.3	1.7	.4	.0	.00	.00	.00	.12	.23	.37	.53	.73	1.01	1.49	1.96
May	.41	.23	1.52	1935	4	1.76	1993	.00+	2000	2.6	1.3	.3	.0	.00	.00	.00	.04	.11	.20	.32	.47	.70	1.11	1.53
Jun	.19	.01	3.00	1952	3	2.02	2000	.00+	1998	1.0	.5	.1	@	.00	.00	.00	.00	.00	.00	.03	.11	.28	.62	1.02
Jul	1.17	.84	2.50	1998	6	4.48	1990	.00	1993	5.0	2.1	.4	.2	.02	.09	.24	.40	.59	.81	1.07	1.42	1.90	2.72	3.53
Aug	2.33	2.24	3.00	1964	2	6.01	1988	.20	1975	6.4	3.5	1.2	.4	.44	.64	.99	1.30	1.62	1.97	2.36	2.83	3.46	4.47	5.44
Sep	1.34	.79	4.65	1997	26	6.96	1997	.00+	2000	4.7	2.7	.8	.3	.00	.00	.10	.29	.52	.80	1.15	1.61	2.27	3.40	4.54
Oct	1.09	.77	3.60	1925	5	5.94	1972	.00+	1999	3.6	2.1	.8	.3	.00	.00	.08	.23	.41	.64	.93	1.30	1.85	2.77	3.72
Nov	1.02	.87	2.00	1965	23	4.07	1978	.00+	1999	3.2	2.2	.7	.3	.00	.00	.13	.28	.45	.66	.91	1.25	1.71	2.51	3.32
Dec	1.23	.88	2.26	1967	19	5.54	1992	.00+	2000	4.3	2.7	.7	.2	.00	.02	.13	.28	.48	.72	1.03	1.45	2.06	3.13	4.23
Ann	15.72	14.62	4.65	Sep 1997	26	9.56	Jan 1993	.00+	Dec 2000	52.2	30.4	9.5	3.6	8.30	9.57	11.29	12.65	13.90	15.14	16.45	17.94	19.79	22.55	25.01

+ 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: 1925-2001

(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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151 Patton Avenue
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www.ncdc.noaa.gov

Station: BAGDAD, AZ

COOP ID: 020586

Climate Division: AZ 3

NWS Call Sign:

Elevation: 3,705 Feet

Lat: 34° 34N

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	.3	.0	#	0	3.8	1990	18	4.3	1990	#+	1997	14	#+	1997	.2	.1	.1	.0	.0	.0	.0	.0	.0
Feb	.7	.0	#	0	5.0	1987	24	11.0	1987	1	1987	25	#	1987	.3	.2	.1	.1	.0	.1	.0	.0	.0
Mar	1.1	.0	#	0	4.5	1975	11	7.0	1975	4	1973	14	#+	1991	.6	.5	.1	.0	.0	.2	.1	.0	.0
Apr	.0	.0	#	0	.5	1995	17	.5	1995	#	1999	29	#	1999	.1	.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	.1	.0	#	0	2.0	1975	29	2.0	1975	2	1975	29	#+	1996	.1	.1	.0	.0	.0	.1	.0	.0	.0
Dec	.5	.0	#	0	4.0	1998	6	4.0	1998	4	1998	6	#+	1998	.2	.1	.1	.0	.0	.1	.1	.0	.0
Ann	2.7	.0	N/A	N/A	5.0	Feb 1987	24	11.0	Feb 1987	4+	Dec 1998	6	#+	Apr 1999	1.5	1.0	.4	.1	.0	.5	.2	.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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NWS Call Sign:

Elevation: 3,705 Feet

Lat: 34°34N

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	5/28	5/15	5/07	4/29	4/22	4/15	4/08	3/30	3/18
32	5/18	5/05	4/25	4/17	4/09	4/01	3/24	3/15	3/01
28	4/23	4/09	3/29	3/20	3/12	3/03	2/22	2/11	1/28
24	3/29	3/10	2/24	2/12	1/31	1/18	1/01	12/02	0/00
20	3/09	2/17	2/01	1/16	12/26	0/00	0/00	0/00	0/00
16	2/12	1/25	1/01	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	10/04	10/13	10/19	10/25	10/30	11/05	11/10	11/17	11/26
32	10/09	10/20	10/27	11/03	11/09	11/15	11/22	11/29	12/10
28	10/25	11/05	11/13	11/20	11/27	12/03	12/10	12/18	12/30
24	11/11	11/21	11/29	12/06	12/13	12/21	12/31	0/00	0/00
20	11/19	12/03	12/14	12/25	1/10	0/00	0/00	0/00	0/00
16	12/12	1/02	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	247	227	213	201	190	179	167	153	134
32	275	254	239	225	213	201	188	172	151
28	326	303	287	273	259	246	232	216	193
24	>365	>365	>365	352	320	298	279	258	231
20	>365	>365	>365	>365	>365	>365	322	289	259
16	>365	>365	>365	>365	>365	>365	>365	>365	310

* 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 3 NWS Call Sign: Elevation: 3,705 Feet Lat: 34°34N 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	588	454	408	218	73	2	0	0	4	104	358	567	2776
60	433	318	278	127	28	0	0	0	0	45	231	415	1875
57	344	242	212	84	14	0	0	0	0	24	167	329	1416
55	286	194	174	61	8	0	0	0	0	14	131	274	1142
50	159	100	96	23	2	0	0	0	0	3	61	157	601
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	435	470	629	816	1113	1367	1564	1520	1306	1026	642	456	11344
55	9	20	91	187	409	677	851	807	616	327	82	17	4093
57	5	12	66	150	352	617	789	745	556	274	58	10	3634
60	0	4	39	103	273	527	696	652	466	203	32	3	2998
65	0	0	15	45	163	379	541	497	320	106	9	0	2075
70	0	0	4	15	82	239	386	342	187	44	1	0	1300

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	190	256	372	546	822	1065	1280	1231	1013	725	370	207	190	446	818	1364	2186	3251	4531	5762	6775	7500	7870	8077
45	81	137	232	399	667	915	1125	1076	863	571	236	96	81	218	450	849	1516	2431	3556	4632	5495	6066	6302	6398
50	29	57	127	268	513	765	970	921	713	422	127	28	29	86	213	481	994	1759	2729	3650	4363	4785	4912	4940
55	4	20	60	150	363	615	815	766	563	283	57	0	4	24	84	234	597	1212	2027	2793	3356	3639	3696	3696
60	0	0	19	71	221	466	660	611	415	167	16	0	0	0	19	90	311	777	1437	2048	2463	2630	2646	2646
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	153	185	248	370	545	681	817	798	665	475	256	165	153	338	586	956	1501	2182	2999	3797	4462	4937	5193	5358

(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