

Climatology of the United States

No. 20

1971-2000

Station: SELIGMAN, AZ

COOP ID: 027716

Climate Division: AZ 3

NWS Call Sign:

Elevation: 5,250 Feet Lat: 35° 20N

Lon: 112° 53W

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	51.2	22.9	37.1	79	1905	31	43.5	1986	-18	1906	2	31.9	1979	867	0	.0	.0	18.4	.6	28.5	.3
Feb	55.5	25.2	40.4	84	1925	20	45.6	1995	-12	1933	8	36.2	1979	691	0	.0	.0	20.3	.4	24.5	.1
Mar	60.7	28.6	44.7	90	1925	5	50.6	1972	-5	1975	28	39.3	1973	630	0	.0	.0	26.5	@	24.3	@
Apr	68.5	33.3	50.9	92+	1925	15	58.4	1989	10	1933	20	44.3	1983	427	4	.0	.0	28.6	.0	16.1	.0
May	76.8	40.4	58.6	98+	1996	12	64.6	2000	14	1971	18	52.9	1971	226	28	.0	1.5	31.0	.0	5.1	.0
Jun	87.5	48.0	67.8	105	1994	29	71.9	1994	26+	1932	7	63.7	1998	50	133	.8	12.2	30.0	.0	.2	.0
Jul	91.1	55.8	73.5	110	1925	17	76.5	1996	33	1978	3	70.3	1986	1	262	1.9	19.7	31.0	.0	.0	.0
Aug	88.8	55.3	72.1	106	1995	7	75.5+	1995	34+	1968	23	69.9	1975	4	222	.8	14.1	31.0	.0	.0	.0
Sep	83.2	48.2	65.7	101+	1948	3	69.6	1979	26	1931	21	59.8	1986	63	84	.0	4.4	30.0	.0	.3	.0
Oct	72.8	37.6	55.2	93+	1996	9	60.0	1988	12	1970	26	49.7	1984	313	9	.0	.3	30.7	.0	7.9	.0
Nov	60.2	27.8	44.0	85	1945	5	50.1	1995	-5	1931	23	39.0	1994	630	0	.0	.0	25.5	.1	24.6	.0
Dec	52.5	22.6	37.6	75	1950	12	44.5	1980	-17	1931	13	31.0	1990	851	0	.0	.0	20.1	.7	28.2	.4
Ann	70.7	37.1	54.0	110	Jul 1925	17	76.5	Jul 1996	-18	Jan 1906	2	31.0	Dec 1990	4753	742	3.5	52.2	323.1	1.8	159.7	.8

+ 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: 1904-2001

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

083-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: SELIGMAN, AZ

COOP ID: 027716

Climate Division: AZ 3

NWS Call Sign:

Elevation: 5,250 Feet Lat: 35°20N

Lon: 112°53W

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	1.21	.82	1.20	1943	22	5.02	1993	.00+	1994	5.4	3.3	.6	.1	.00	.00	.19	.38	.59	.83	1.12	1.49	2.00	2.86	3.72
Feb	1.17	1.02	1.50	1943	23	4.41	1993	.00	1989	5.0	3.2	.8	.1	.04	.12	.29	.46	.64	.86	1.11	1.44	1.89	2.64	3.38
Mar	1.29	1.13	2.80	1968	7	3.73	1991	.00+	1999	6.5	4.0	.6	.1	.00	.00	.25	.55	.81	1.07	1.35	1.68	2.12	2.80	3.50
Apr	.54	.45	1.35	1952	22	2.80	1988	.00+	2000	3.4	1.7	.2	.0	.00	.00	.04	.14	.24	.36	.50	.67	.91	1.31	1.72
May	.57	.40	1.24	1979	24	2.03	1992	.00+	2000	3.4	1.7	.2	@	.00	.00	.06	.18	.29	.42	.56	.73	.97	1.34	1.74
Jun	.30	.21	2.00	1952	2	1.06+	1991	.00+	1998	2.0	1.0	.1	.0	.00	.00	.00	.00	.08	.19	.30	.41	.56	.78	.99
Jul	1.85	1.69	4.84	1970	21	4.36	1984	.00	1993	7.7	4.4	1.1	.3	.18	.40	.70	.97	1.24	1.54	1.88	2.28	2.82	3.70	4.53
Aug	2.02	1.87	2.20	1921	21	5.15	1971	.12	1985	8.5	5.1	1.1	.2	.30	.47	.76	1.04	1.33	1.65	2.02	2.46	3.06	4.04	4.98
Sep	1.26	.99	2.36	1983	23	5.57	1999	.00+	1993	5.3	2.9	.6	.3	.00	.00	.18	.38	.59	.85	1.16	1.55	2.10	3.03	3.97
Oct	.94	.70	2.70	1925	5	4.62	1972	.00	1999	4.1	2.5	.6	.2	.02	.07	.19	.32	.47	.65	.86	1.14	1.53	2.20	2.87
Nov	.87	.76	2.17	1905	5	3.41	1978	.00+	1999	3.2	2.2	.6	.1	.00	.00	.08	.21	.36	.54	.77	1.06	1.47	2.17	2.88
Dec	.80	.68	1.40	1967	16	3.14	1984	.00	1999	4.7	2.5	.2	.1	.02	.07	.18	.29	.42	.56	.74	.97	1.29	1.83	2.37
Ann	12.82	12.83	4.84	Jul 1970	21	5.57	Sep 1999	.00+	May 2000	59.2	34.5	6.7	1.5	8.24	9.09	10.19	11.05	11.82	12.57	13.35	14.21	15.28	16.84	18.20

+ 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: 1904-2001

(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: SELIGMAN, AZ

COOP ID: 027716

Climate Division: AZ 3

NWS Call Sign:

Elevation: 5,250 Feet

Lat: 35° 20N

Lon: 112° 53W

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	2.6	2.1	#	#	9.4	1990	18	10.3	1997	10	1982	21	3	1985	1.4	1.2	.5	.1	.0	1.8	1.1	.3	.0
Feb	2.7	1.5	#	0	8.0	1990	19	12.1	1990	8	1990	19	1+	1998	.9	.8	.4	.1	.0	.7	.5	.1	.0
Mar	1.3	.0	#	0	6.0	1974	9	9.6	1991	4	1991	26	#+	1998	.6	.6	.2	.1	.0	.2	.1	.0	.0
Apr	.4	.0	#	0	3.0	1997	3	5.0	1997	#+	1999	1	#+	1999	.2	.1	.1	.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	.1	.0	0	0	1.6	1991	30	1.6	1991	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Nov	1.1	.0	#	0	6.0	1994	18	10.0	1994	4	1994	19	#+	1996	.5	.4	.1	.1	.0	.1	.0	.0	.0
Dec	1.8	.6	#	0	6.0	1972	9	6.5	1990	6	1976	31	1	1992	1.2	.6	.2	.1	.0	1.2	.6	.1	.0
Ann	10.0	4.2	N/A	N/A	9.4	Jan 1990	18	12.1	Feb 1990	10	Jan 1982	21	3	Jan 1985	4.9	3.8	1.5	.5	.0	4.0	2.3	.5	.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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Climatography of the United States

No. 20 1971-2000

Station: SELIGMAN, AZ

COOP ID: 027716

Climate Division: AZ 3

NWS Call Sign:

Elevation: 5,250 Feet

Lat: 35°20N

Lon: 112°53W

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	7/02	6/23	6/17	6/12	6/08	6/03	5/29	5/23	5/14
32	6/06	5/31	5/27	5/23	5/20	5/17	5/13	5/09	5/03
28	5/29	5/21	5/16	5/11	5/07	5/03	4/28	4/22	4/15
24	5/17	5/08	5/02	4/26	4/21	4/15	4/10	4/03	3/25
20	5/05	4/22	4/13	4/06	3/29	3/22	3/15	3/06	2/21
16	4/23	4/07	3/27	3/17	3/07	2/26	2/16	2/05	1/20
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	9/15	9/20	9/24	9/28	10/01	10/04	10/07	10/11	10/17
32	9/25	10/01	10/05	10/09	10/13	10/16	10/20	10/25	10/31
28	10/06	10/12	10/16	10/19	10/23	10/26	10/30	11/03	11/09
24	10/16	10/21	10/25	10/29	11/01	11/04	11/07	11/11	11/17
20	10/26	10/31	11/04	11/07	11/10	11/13	11/16	11/20	11/25
16	11/07	11/13	11/17	11/21	11/24	11/27	12/01	12/05	12/11
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	146	135	127	121	114	108	102	94	83
32	166	159	153	149	145	141	136	131	124
28	191	183	178	173	168	164	159	153	145
24	225	214	206	200	193	187	180	173	162
20	266	252	242	233	225	217	208	198	184
16	315	297	283	272	261	250	238	225	206

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

Station: SELIGMAN, AZ

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Climate Division: AZ 3

NWS Call Sign:

Elevation: 5,250 Feet Lat: 35° 20N Lon: 112° 53W

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	867	691	630	427	226	50	1	4	63	313	630	851	4753
60	712	551	476	291	123	14	0	0	17	187	480	696	3547
57	619	467	386	218	77	6	0	0	6	126	392	603	2900
55	557	411	329	177	54	3	0	0	3	93	335	541	2503
50	402	277	199	93	17	0	0	0	0	36	205	392	1621
32	28	8	3	0	0	0	0	0	0	0	4	35	78

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	184	241	397	567	825	1073	1284	1241	1011	719	365	207	8114
55	0	0	9	54	166	386	571	528	324	99	5	0	2142
57	0	0	5	36	127	329	509	466	267	70	2	0	1811
60	0	0	1	18	80	247	416	373	188	38	0	0	1361
65	0	0	0	4	28	133	262	222	84	9	0	0	742
70	0	0	0	0	7	55	121	96	24	1	0	0	304

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	43	81	164	322	567	827	1032	989	771	469	162	43	43	124	288	610	1177	2004	3036	4025	4796	5265	5427	5470
45	6	22	71	193	414	677	877	834	621	325	71	5	6	28	99	292	706	1383	2260	3094	3715	4040	4111	4116
50	0	0	21	93	269	527	722	679	472	192	17	0	0	0	21	114	383	910	1632	2311	2783	2975	2992	2992
55	0	0	0	27	145	377	567	524	324	89	0	0	0	0	0	27	172	549	1116	1640	1964	2053	2053	2053
60	0	0	0	3	57	236	412	369	184	22	0	0	0	0	0	3	60	296	708	1077	1261	1283	1283	1283
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	73	113	181	281	423	532	640	629	508	364	180	83	73	186	367	648	1071	1603	2243	2872	3380	3744	3924	4007

(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