U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: YUCCA 1 NNE, AZ **COOP ID: 029645**

Climate Division: AZ 1 **NWS Call Sign:** **Elevation: 1,950 Feet** **Lat: 34˚53N** **Lon: 114˚08W**

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	61.5	38.2	49.9	82+	1971	18	55.1	1986	4	1971	7	43.4	1979	470	0	.0	.0	28.0	.0	6.9	.0
Feb	66.3	41.2	53.8	87+	1986	26	59.1	1991	18+	1989	6	49.9	1975	317	2	.0	.0	27.3	@	3.1	.0
Mar	71.3	44.4	57.9	93	1997	21	66.2	1972	21	1966	3	50.9	1973	259	37	.0	.2	30.6	.0	1.4	.0
Apr	79.9	49.9	64.9	102	1996	26	72.8	1989	31	1975	2	56.9	1975	117	114	.2	3.8	29.9	.0	.1	.0
May	89.4	59.1	74.3	109+	2001	23	80.9	1984	35	1975	6	67.7	1977	20	307	1.9	14.1	31.0	.0	.0	.0
Jun	100.5	68.7	84.6	117	1994	29	89.2	1981	46	1973	20	80.5	1998	0	588	13.4	26.5	30.0	.0	.0	.0
Jul	105.0	76.7	90.9	120	1995	28	94.7	1996	48	1974	12	87.0	1987	0	801	22.4	30.4	31.0	.0	.0	.0
Aug	103.2	75.2	89.2	119	1993	1	92.9	1996	48	1974	21	85.8	1976	0	751	18.6	30.0	31.0	.0	.0	.0
Sep	97.1	67.0	82.1	111+	1995	2	85.9	1979	40	1978	18	75.2	1985	0	512	8.1	23.4	30.0	.0	.0	.0
Oct	84.9	55.0	70.0	105	1980	1	77.2	1988	28	1971	30	65.1	1984	46	200	.8	8.4	31.0	.0	@	.0
Nov	70.7	43.8	57.3	89+	2001	4	63.9	1995	23+	1979	20	51.0	1994	252	20	.0	.0	29.6	.0	1.8	.0
Dec	61.8	37.9	49.9	81	1958	3	56.5	1980	15	1968	21	44.4	1978	469	0	.0	.0	28.4	@	7.1	.0
Ann	82.6	54.8	68.7	120	Jul 1995	28	94.7	Jul 1996	4	Jan 1971	7	43.4	Jan 1979	1950	3332	65.4	136.8	357.8	.0	20.4	.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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1950-2001

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

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	1.12	.75	1.54	1993	8	5.27	1993	.00+	2000
Feb	1.08	.68	1.55	1993	9	4.57	1998	.00+	1984
Mar	1.26	.82	1.77	1973	12	5.03	1992	.00+	1997
Apr	.35	.13	.78	1988	16	1.84	1988	.00+	2000
May	.20	.11	.83	1981	29	1.02	1990	.00+	2000
Jun	.08	.00	.66	1954	26	.92	1972	.00+	1999
Jul	.73	.33	2.00	1974	20	4.31	1984	.00+	2000
Aug	.94	.59	2.81	1959	18	3.44	1971	.00+	1985
Sep	.73	.31	3.61	1981	6	4.45	1976	.00+	2000
Oct	.49	.32	1.95	1978	21	2.57	1978	.00+	1999
Nov	.51	.46	1.95	1965	23	1.78	1985	.00+	1999
Dec	.64	.33	1.59	1959	25	3.08	1984	.00+	2000
Ann	8.13	7.78	3.61	Sep 1981	6	5.27	Jan 1993	.00+	Dec 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.0	2.6	.7	.2
Feb	3.7	2.4	.7	.2
Mar	4.5	3.1	.7	.2
Apr	2.2	1.0	.1	.0
May	1.6	.7	.1	.0
Jun	.6	.2	.0	.0
Jul	2.2	1.4	.4	.2
Aug	3.3	2.1	.7	.1
Sep	2.4	1.3	.5	.2
Oct	2.3	1.2	.3	.1
Nov	2.0	1.2	.3	@
Dec	2.7	1.6	.4	@
Ann	31.5	18.8	4.9	1.2

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.00	.00	.08	.29	.50	.75	1.04	1.40	1.90	2.73	3.58
Feb	.00	.00	.18	.35	.54	.75	1.01	1.33	1.78	2.54	3.28
Mar	.00	.00	.06	.25	.48	.75	1.09	1.53	2.15	3.21	4.30
Apr	.00	.00	.00	.00	.04	.12	.22	.37	.60	1.01	1.43
May	.00	.00	.00	.02	.06	.10	.16	.23	.34	.54	.75
Jun	.00	.00	.00	.00	.00	.00	.00	.02	.10	.26	.46
Jul	.00	.00	.00	.08	.21	.37	.57	.85	1.26	1.98	2.71
Aug	.00	.00	.11	.25	.41	.60	.83	1.14	1.56	2.30	3.04
Sep	.00	.00	.01	.08	.18	.33	.54	.82	1.25	2.02	2.83
Oct	.00	.00	.02	.08	.17	.27	.41	.59	.84	1.29	1.75
Nov	.00	.00	.00	.14	.25	.37	.50	.66	.88	1.25	1.60
Dec	.00	.00	.02	.08	.18	.31	.48	.72	1.08	1.73	2.41
Ann	3.36	4.10	5.15	6.00	6.81	7.62	8.50	9.52	10.80	12.75	14.53

\+ 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: 1950-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	2.2	1979	28	2.9	1979	2	1979	28	#	1979	.1	@	.0	.0	.0	@	.0	.0	.0
Feb	.1	.0	0	0	4.0	1985	4	4.0	1985	0	0	0	0	0	@	@	@	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1971	1	#	1971	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	.2	.0	N/A	N/A	4.0	Feb 1985	4	4.0	Feb 1985	2	Jan 1979	28	#	Jan 1979	.1	@	@	.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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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	4/28	4/18	4/10	4/04	3/29	3/23	3/17	3/09	2/27
32	4/05	3/26	3/18	3/12	3/06	3/01	2/22	2/15	2/05
28	3/06	2/20	2/10	2/02	1/24	1/16	1/06	12/23	0/00
24	2/05	1/23	1/12	12/30	12/10	0/00	0/00	0/00	0/00
20	1/17	12/28	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	12/30	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	10/31	11/05	11/09	11/12	11/15	11/18	11/21	11/25	11/30
32	11/12	11/17	11/20	11/24	11/26	11/29	12/02	12/06	12/11
28	11/17	11/27	12/04	12/10	12/16	12/22	12/30	1/11	0/00
24	12/08	12/24	1/07	1/24	0/00	0/00	0/00	0/00	0/00
20	12/29	1/28	0/00	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	265	253	244	237	230	223	216	207	195
32	298	286	278	271	264	258	251	242	231
28	>365	>365	>365	340	320	308	298	287	274
24	>365	>365	>365	>365	>365	>365	>365	350	326
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
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

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Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	470	317	259	117	20	0	0	0	0	46	252	469	1950
60	321	188	157	55	6	0	0	0	0	14	142	323	1206
57	237	123	108	31	2	0	0	0	0	6	92	241	840
55	187	88	80	20	1	0	0	0	0	3	66	192	637
50	92	26	31	6	0	0	0	0	0	0	22	99	276
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	553	608	801	987	1309	1578	1824	1774	1502	1177	757	554	13424
55	27	52	168	317	597	888	1111	1061	812	467	133	34	5667
57	15	31	134	268	536	828	1049	999	752	408	99	20	5139
60	6	12	90	202	447	738	956	906	662	323	60	9	4411
65	0	2	37	114	307	588	801	751	512	200	20	0	3332
70	0	0	13	52	188	439	646	596	366	105	4	0	2409

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	287	381	532	729	1035	1299	1534	1482	1224	894	488	282	287	668	1200	1929	2964	4263	5797	7279	8503	9397	9885	10167
45	155	242	378	579	880	1149	1379	1327	1074	741	342	153	155	397	775	1354	2234	3383	4762	6089	7163	7904	8246	8399
50	60	124	235	429	725	999	1224	1172	924	586	210	59	60	184	419	848	1573	2572	3796	4968	5892	6478	6688	6747
55	15	48	123	291	570	849	1069	1017	774	433	107	11	15	63	186	477	1047	1896	2965	3982	4756	5189	5296	5307
60	1	9	52	173	420	699	914	862	624	293	38	0	1	10	62	235	655	1354	2268	3130	3754	4047	4085	4085
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	166	230	327	456	664	811	970	947	789	566	300	170	166	396	723	1179	1843	2654	3624	4571	5360	5926	6226	6396

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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