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: JEROME, AZ **COOP ID: 024453**

Climate Division: AZ 3 **NWS Call Sign:** **Elevation: 4,950 Feet** **Lat: 34˚45N** **Lon: 112˚07W**

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	49.4	33.4	41.4	75	1935	30	49.4	1986	5	1963	13	32.8	1979	731	0	.0	.0	15.7	.4	13.6	.0
Feb	53.9	35.6	44.8	82	1898	28	51.4	1991	8+	1933	9	38.8	1998	567	0	.0	.0	19.6	.3	8.5	.0
Mar	58.9	38.9	48.9	85	1898	5	59.2	1972	17	1971	2	39.9	1973	510	11	.0	.0	26.1	@	6.0	.0
Apr	67.3	45.1	56.2	92	1898	12	65.5	1989	23	1945	4	47.4	1975	297	33	.0	.0	28.1	@	2.5	.0
May	76.2	53.3	64.8	99+	1910	31	71.9	2000	26	1915	1	57.7	1980	124	117	.0	1.1	31.0	.0	.2	.0
Jun	86.8	63.2	75.0	104+	1994	30	81.2	1994	39	1977	12	71.6	1984	7	308	.7	11.8	30.0	.0	.0	.0
Jul	90.3	67.1	78.7	105	1898	28	82.3	2000	44	1979	20	74.6	1986	0	424	1.2	18.2	31.0	.0	.0	.0
Aug	87.4	65.6	76.5	105	1933	13	80.9	1994	31	1925	29	72.5	1984	0	356	.2	11.5	31.0	.0	.0	.0
Sep	81.7	60.7	71.2	102+	1950	2	74.6	2000	40+	1982	28	65.1	1986	16	203	.0	3.3	30.0	.0	.0	.0
Oct	70.9	51.0	61.0	94	1934	6	67.0	1988	21	1971	29	54.4	1984	183	56	.0	.1	30.3	.0	.4	.0
Nov	57.9	40.0	49.0	85+	1934	6	56.7	1999	16+	1976	28	42.9	2000	485	3	.0	.0	24.2	.0	4.7	.0
Dec	50.2	34.0	42.1	75+	1962	17	48.7	1980	5	1990	24	36.3	1971	709	0	.0	.0	17.5	.5	12.7	.0
Ann	69.2	49.0	59.1	105+	Aug 1933	13	82.3	Jul 2000	5+	Dec 1990	24	32.8	Jan 1979	3629	1511	2.1	46.0	314.5	1.2	48.6	.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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1897-2001

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

Issue Date: February 2004

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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	1.79	1.38	3.10	1915	29	6.84	1993	.00	1972
Feb	2.12	1.38	3.60	1901	6	8.42	1980	.00	1974
Mar	2.20	1.91	2.31	1918	8	5.84	1978	.00+	1997
Apr	1.06	1.00	2.65	1941	12	3.69	1988	.00+	1991
May	.70	.40	2.00	1987	18	3.41	1987	.00+	1996
Jun	.47	.22	2.40	2000	18	3.13	2000	.00+	1998
Jul	2.48	2.09	2.47	1964	25	6.32	1983	.06	1997
Aug	3.03	2.59	3.10	1969	29	8.41	1984	.96	1999
Sep	1.75	1.67	2.81	1983	23	8.23	1983	.00	1973
Oct	1.49	1.05	3.00	1972	7	8.74	1972	.00+	1999
Nov	1.45	1.01	4.66	1978	11	6.81	1978	.00+	1999
Dec	1.21	.80	2.82	1965	10	3.61	1992	.00+	1999
Ann	19.75	18.67	4.66	Nov 1978	11	8.74	Oct 1972	.00+	Dec 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.8	4.2	1.1	.2
Feb	5.5	3.9	1.3	.5
Mar	7.0	5.0	1.6	.5
Apr	4.2	3.0	.5	.1
May	3.1	1.9	.4	.1
Jun	2.1	1.1	.2	.1
Jul	7.9	4.9	1.7	.5
Aug	9.2	6.1	1.9	.7
Sep	5.3	3.2	1.1	.5
Oct	3.8	2.7	1.0	.3
Nov	3.8	2.7	.8	.3
Dec	4.5	2.8	.7	.1
Ann	62.2	41.5	12.3	3.9

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	.01	.08	.25	.47	.75	1.09	1.53	2.11	2.95	4.43	5.94
Feb	.04	.16	.42	.71	1.04	1.44	1.93	2.56	3.45	4.96	6.48
Mar	.00	.11	.42	.75	1.12	1.54	2.05	2.70	3.60	5.13	6.66
Apr	.00	.00	.19	.36	.55	.76	1.01	1.32	1.74	2.45	3.16
May	.00	.00	.04	.13	.25	.39	.58	.83	1.19	1.82	2.46
Jun	.00	.00	.00	.00	.06	.18	.34	.55	.84	1.35	1.87
Jul	.21	.38	.70	1.05	1.42	1.85	2.37	3.02	3.91	5.40	6.88
Aug	.84	1.12	1.56	1.94	2.31	2.70	3.14	3.65	4.31	5.35	6.33
Sep	.01	.06	.21	.41	.68	1.01	1.45	2.04	2.90	4.44	6.01
Oct	.00	.00	.13	.36	.63	.94	1.32	1.82	2.52	3.71	4.90
Nov	.00	.00	.18	.42	.69	.99	1.35	1.81	2.44	3.49	4.53
Dec	.00	.04	.18	.35	.55	.79	1.08	1.46	2.00	2.92	3.85
Ann	11.58	13.04	14.98	16.49	17.87	19.22	20.63	22.22	24.19	27.09	29.65

\+ 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: 1897-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	2.5	.0	#	0
Feb	1.2	.0	#	0
Mar	2.7	.0	#	0
Apr	1.6	.0	#	0
May	#	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	#	0
Oct	#	.0	#	0
Nov	.5	.0	#	0
Dec	1.0	.0	#	0
Ann	9.5	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	12.0	1982	21	18.9	1982	12	1982	21	2	1982
Feb	6.0	1979	1	7.0	1979	12	1997	28	8	1979
Mar	9.5	2000	6	14.0	2000	10	2000	7	1	2000
Apr	13.0	1999	2	24.0	1999	14	1999	2	2	1999
May	#	1988	2	#	1988	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	#	1996	14	#	1996
Oct	#	1971	29	#	1971	#	1971	29	#	1971
Nov	4.0	1973	27	6.0	1973	10	1991	29	1	1991
Dec	4.0	1972	9	8.7	1971	3+	1997	23	#+	1998
Ann	13.0	Apr 1999	2	24.0	Apr 1999	14	Apr 1999	2	8	Feb 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.8	.8	.2	.1	@
Feb	.5	.4	.2	@	.0
Mar	1.0	.8	.3	.1	.0
Apr	.4	.4	.2	.1	@
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.2	.2	.1	.0	.0
Dec	.4	.3	.1	.0	.0
Ann	3.3	2.9	1.1	.3	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.8	.4	.2	.1
Feb	.1	.0	.0	.0
Mar	.3	.1	.1	.1
Apr	.3	.2	.2	.1
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.1	.0	.0	.0
Dec	.1	.0	.0	.0
Ann	1.7	.7	.5	.3

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/12	5/05	4/29	4/25	4/20	4/16	4/11	4/06	3/29
32	5/01	4/24	4/18	4/14	4/09	4/05	3/31	3/26	3/19
28	4/14	4/02	3/24	3/16	3/08	3/01	2/21	2/12	1/31
24	3/12	2/27	2/17	2/09	2/01	1/25	1/16	1/06	12/21
20	2/24	2/08	1/27	1/16	1/05	12/22	11/27	0/00	0/00
16	1/27	1/14	1/02	12/18	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	10/16	10/22	10/26	10/30	11/02	11/05	11/09	11/13	11/19
32	10/28	11/03	11/08	11/12	11/16	11/20	11/24	11/28	12/05
28	11/08	11/17	11/23	11/28	12/03	12/08	12/13	12/19	12/28
24	11/11	11/22	11/30	12/06	12/13	12/19	12/26	1/03	1/16
20	12/01	12/13	12/23	12/31	1/10	1/22	0/00	0/00	0/00
16	12/14	12/30	1/15	2/08	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	222	213	206	200	195	190	184	177	168
32	251	240	232	226	220	214	207	199	189
28	320	300	287	276	267	257	247	235	218
24	>365	349	327	314	305	296	287	276	262
20	>365	>365	>365	>365	>365	360	336	316	294
16	>365	>365	>365	>365	>365	>365	>365	>365	350

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	731	567	510	297	124	7	0	0	16	183	485	709	3629
60	576	429	372	193	60	1	0	0	3	96	346	554	2630
57	483	349	297	142	35	0	0	0	1	60	269	464	2100
55	424	298	253	113	23	0	0	0	0	42	223	406	1782
50	282	181	161	54	7	0	0	0	0	14	128	268	1095
32	13	5	9	0	0	0	0	0	0	0	2	14	43

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	306	362	533	726	1016	1291	1447	1379	1176	897	510	327	9970
55	3	10	65	149	327	601	734	666	486	226	41	7	3315
57	0	6	47	118	277	541	672	604	427	182	27	2	2903
60	0	2	28	78	209	452	579	511	339	125	14	0	2337
65	0	0	11	33	117	308	424	356	203	56	3	0	1511
70	0	0	2	13	53	180	274	207	95	19	0	0	843

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	114	187	310	504	781	1063	1209	1143	948	665	294	123	114	301	611	1115	1896	2959	4168	5311	6259	6924	7218	7341
45	48	94	187	367	626	913	1054	988	798	513	179	45	48	142	329	696	1322	2235	3289	4277	5075	5588	5767	5812
50	11	36	98	238	474	763	899	833	648	366	83	9	11	47	145	383	857	1620	2519	3352	4000	4366	4449	4458
55	0	4	42	131	330	613	744	678	499	235	28	0	0	4	46	177	507	1120	1864	2542	3041	3276	3304	3304
60	0	0	7	58	198	465	589	523	352	127	6	0	0	0	7	65	263	728	1317	1840	2192	2319	2325	2325
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	52	92	167	298	494	713	821	788	638	392	143	57	52	144	311	609	1103	1816	2637	3425	4063	4455	4598	4655

(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