

Climatology of the United States

No. 20

1971-2000

Station: PRESCOTT, AR

COOP ID: 035908

Climate Division: AR 8

NWS Call Sign:

Elevation: 308 Feet

Lat: 33°48N

Lon: 93°23W

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	51.4	29.9	40.7	83	1950	26	46.9	1990	-4	1930	18	30.2	1979	755	0	.0	.0	18.4	1.2	17.1	.0
Feb	58.3	33.7	46.0	88	1986	20	54.4	1976	-1+	1951	2	35.0	1978	533	0	.0	.0	22.3	.6	10.7	.0
Mar	66.9	41.6	54.3	93	1974	31	60.5	1974	11	1943	3	49.5	1996	341	7	.0	@	29.7	.0	4.1	.0
Apr	74.7	49.4	62.1	94	1987	19	68.2	1981	28+	1975	3	57.4	1997	130	41	.0	.3	30.0	.0	.5	.0
May	81.5	59.2	70.4	100	1934	31	73.9	1987	36	1954	4	66.2	1976	20	187	.0	2.9	31.0	.0	.0	.0
Jun	88.3	66.8	77.6	108	1936	20	80.8	1998	50	1955	11	74.2	1974	0	376	.2	15.2	30.0	.0	.0	.0
Jul	92.3	70.4	81.4	112	1930	29	86.2	1998	55	1947	23	78.2	1989	0	507	2.6	24.0	31.0	.0	.0	.0
Aug	92.2	69.0	80.6	112	1936	10	85.5	2000	52+	1956	22	75.6	1992	0	483	4.0	23.0	31.0	.0	.0	.0
Sep	85.4	62.6	74.0	110	2000	1	79.8	1998	36+	1942	27	67.7	1974	10	281	.8	10.7	30.0	.0	.0	.0
Oct	75.8	51.3	63.6	102+	1938	1	68.3	1971	27	1989	20	57.5	1976	109	63	.0	1.0	30.9	.0	.3	.0
Nov	62.5	40.3	51.4	87	1937	1	56.7	1985	13	1976	29	45.3	1976	410	2	.0	.0	27.0	.0	5.4	.0
Dec	53.9	33.0	43.5	81+	1933	5	53.3	1984	0	1989	23	32.6	1983	668	0	.0	.0	21.2	.9	14.2	@
Ann	73.6	50.6	62.1	112+	Aug 1936	10	86.2	Jul 1998	-4	Jan 1930	18	30.2	Jan 1979	2976	1947	7.6	77.1	332.5	2.7	52.3	@

+ 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: 1930-2001

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

065-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: PRESCOTT, AR

COOP ID: 035908

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NWS Call Sign:

Elevation: 308 Feet Lat: 33°48N

Lon: 93°23W

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	4.24	4.10	7.21	1938	22	8.74	1999	.18	1986	9.2	6.8	3.2	1.2	.91	1.31	1.93	2.49	3.06	3.66	4.34	5.15	6.23	7.94	9.56
Feb	4.05	3.49	6.00	2001	16	12.68	1989	.37	1972	7.9	6.1	2.9	1.3	.92	1.29	1.89	2.42	2.95	3.52	4.15	4.91	5.91	7.49	8.99
Mar	5.04	4.68	5.06	1989	29	10.82	1990	.98	1982	9.5	7.0	3.4	1.6	1.55	2.03	2.74	3.36	3.95	4.56	5.24	6.04	7.06	8.66	10.14
Apr	4.97	4.87	6.00	1966	24	13.00	1973	.58	1987	8.7	6.4	3.4	1.6	1.14	1.60	2.33	2.98	3.64	4.33	5.10	6.03	7.24	9.18	11.00
May	5.15	5.04	4.52	1930	17	8.69	1979	1.61	1988	9.8	7.6	3.6	1.6	2.14	2.61	3.27	3.81	4.32	4.84	5.40	6.04	6.85	8.09	9.22
Jun	4.69	3.81	6.71	1945	12	12.43	2000	1.08	1980	8.7	6.8	2.9	1.6	1.10	1.54	2.22	2.84	3.45	4.10	4.82	5.68	6.82	8.61	10.31
Jul	4.27	3.71	4.78	1971	24	12.06	1971	.17	2000	7.6	5.8	2.8	1.5	.36	.65	1.21	1.81	2.46	3.20	4.08	5.19	6.73	9.29	11.82
Aug	3.13	2.72	6.87	1974	31	14.53	1974	.00	2000	6.6	4.7	2.2	.8	.16	.45	.92	1.38	1.87	2.42	3.06	3.86	4.94	6.73	8.48
Sep	4.34	3.57	5.50	1974	2	13.90	1974	.27	1982	7.3	5.3	2.7	1.2	.78	1.16	1.80	2.39	2.99	3.64	4.39	5.29	6.49	8.43	10.27
Oct	5.00	4.62	5.75	2001	11	11.87	1993	.54	1977	7.3	5.5	3.0	1.7	.87	1.31	2.04	2.72	3.42	4.18	5.05	6.10	7.50	9.77	11.93
Nov	5.90	5.08	5.23	1957	13	13.90	1988	.78	1999	8.5	6.5	3.6	2.2	1.11	1.63	2.50	3.30	4.11	4.99	5.99	7.19	8.79	11.36	13.81
Dec	5.55	5.08	5.30	1987	26	15.87	1987	.59	1981	8.9	6.9	3.6	2.1	1.39	1.91	2.72	3.43	4.14	4.89	5.72	6.71	8.00	10.05	11.96
Ann	56.33	54.83	7.21	Jan 1938	22	15.87	Dec 1987	.00	Aug 2000	100.0	75.4	37.3	18.4	40.97	43.97	47.80	50.69	53.26	55.73	58.28	61.09	64.50	69.42	73.67

+ 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: 1930-2001

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

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Station: PRESCOTT, AR

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NWS Call Sign:

Elevation: 308 Feet

Lat: 33°48N

Lon: 93°23W

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	2.3	.2	#	#	11.3	2000	28	13.0	1988	12	2000	29	2+	2000	1.1	.6	.3	.1	@	1.6	.8	.4	.1
Feb	1.5	.3	#	#	5.0	1980	9	7.4	1978	6	1985	2	1+	2000	.8	.6	.2	@	.0	.8	.4	.1	.0
Mar	.1	.0	#	0	1.8	1971	3	1.8	1971	#	1975	13	#	1975	.1	@	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1983	20	#+	1983	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	.3	1976	13	.3	1976	#	1976	14	#	1976	@	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.7	.0	#	0	8.1	1983	16	9.9	1983	8	1983	16	1	1983	.6	.3	@	@	.0	.8	@	@	.0
Ann	4.6	.5	N/A	N/A	11.3	Jan 2000	28	13.0	Jan 1988	12	Jan 2000	29	2+	Jan 2000	2.6	1.5	.5	.1	@	3.2	1.2	.5	.1

+ 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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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	4/15	4/12	4/09	4/06	4/04	4/02	3/31	3/28	3/24
32	4/09	4/03	3/31	3/27	3/24	3/21	3/18	3/14	3/09
28	3/28	3/20	3/15	3/11	3/06	3/02	2/25	2/20	2/13
24	3/12	3/04	2/26	2/21	2/17	2/12	2/07	2/01	1/24
20	3/06	2/24	2/17	2/11	2/05	1/30	1/23	1/15	1/03
16	2/20	2/10	2/03	1/27	1/20	1/12	1/01	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	10/13	10/19	10/23	10/26	10/29	11/01	11/04	11/08	11/14
32	10/25	10/30	11/03	11/06	11/09	11/12	11/16	11/19	11/25
28	10/31	11/07	11/13	11/17	11/21	11/25	11/30	12/05	12/12
24	11/17	11/24	11/29	12/03	12/07	12/11	12/15	12/20	12/27
20	11/19	12/01	12/10	12/18	12/25	1/02	1/10	1/19	2/03
16	12/13	12/21	12/28	1/03	1/09	1/16	1/30	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	225	219	214	211	207	204	200	195	189
32	251	244	238	233	229	225	220	215	207
28	292	281	273	266	259	253	246	237	226
24	324	313	306	299	293	287	280	272	262
20	>365	350	336	326	318	311	303	294	282
16	>365	>365	>365	>365	>365	348	332	319	305

* 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	755	533	341	130	20	0	0	0	10	109	410	668	2976
60	601	401	208	52	3	0	0	0	1	41	274	520	2101
57	515	324	144	24	1	0	0	0	0	19	203	434	1664
55	457	276	109	13	0	0	0	0	0	10	161	378	1404
50	322	175	46	2	0	0	0	0	0	1	82	254	882
32	36	9	0	0	0	0	0	0	0	0	1	21	67

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	304	400	690	901	1190	1366	1530	1506	1261	977	583	376	11084
55	12	24	86	224	477	676	817	793	571	273	53	20	4026
57	8	16	59	175	415	616	755	731	511	220	35	13	3554
60	1	8	30	113	325	526	662	638	422	149	16	7	2897
65	0	0	7	41	187	376	507	483	281	63	2	0	1947
70	0	0	0	9	83	230	352	334	161	18	0	0	1187

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	166	282	503	714	970	1151	1302	1289	1053	761	399	217	166	448	951	1665	2635	3786	5088	6377	7430	8191	8590	8807
45	93	176	362	564	815	1001	1147	1134	903	607	271	121	93	269	631	1195	2010	3011	4158	5292	6195	6802	7073	7194
50	45	96	233	415	660	851	992	979	753	454	168	62	45	141	374	789	1449	2300	3292	4271	5024	5478	5646	5708
55	19	45	133	276	505	701	837	824	603	308	88	28	19	64	197	473	978	1679	2516	3340	3943	4251	4339	4367
60	2	16	62	158	350	551	682	669	453	184	41	9	2	18	80	238	588	1139	1821	2490	2943	3127	3168	3177
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	106	180	323	463	655	794	882	864	709	491	235	129	106	286	609	1072	1727	2521	3403	4267	4976	5467	5702	5831

(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