

Climatology of the United States

No. 20

1971-2000

Station: SUBIACO, AR

COOP ID: 036928

Climate Division: AR 4

NWS Call Sign:

Elevation: 500 Feet Lat: 35°18N Lon: 93°38W

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	47.7	29.0	38.4	82	1950	25	46.6	1990	-6	1985	20	25.8	1979	826	0	.0	.0	15.0	2.6	19.8	.2
Feb	54.5	33.2	43.9	88	1962	12	52.9	1976	-7	1951	2	31.7	1978	595	2	.0	.0	19.2	1.0	12.8	.0
Mar	63.5	41.3	52.4	93	1974	31	57.1	1974	9	1955	26	46.0	1975	397	7	.0	@	28.4	.1	5.9	.0
Apr	72.4	49.3	60.9	95+	1972	13	67.4	1981	26	1987	3	54.6	1983	160	35	.0	.5	29.8	.0	.8	.0
May	79.0	57.9	68.5	101	1951	31	73.2	1998	33	1954	4	63.3	1976	45	153	.0	2.8	31.0	.0	.0	.0
Jun	86.7	65.4	76.1	108	1953	19	80.1	1998	45	1983	1	72.1	1974	2	333	.7	13.5	30.0	.0	.0	.0
Jul	91.6	69.6	80.6	113	1954	13	85.7	1980	53	1972	6	76.9	1989	0	484	3.7	23.8	31.0	.0	.0	.0
Aug	90.9	68.2	79.6	110	1954	7	86.2+	2000	47	1986	29	73.8	1992	2	453	3.5	22.2	31.0	.0	.0	.0
Sep	83.3	61.8	72.6	107	1954	3	79.0	1998	36	1967	29	66.2	1974	19	246	.9	9.2	30.0	.0	.0	.0
Oct	73.2	50.9	62.1	100	1953	1	66.5	1971	24	1993	31	56.6	1976	138	47	.0	1.1	30.8	.0	.6	.0
Nov	60.0	40.6	50.3	87	1955	13	56.6	1999	13+	1950	24	44.5	1976	444	3	.0	.0	25.2	.0	6.3	.0
Dec	50.2	32.2	41.2	81+	1951	30	48.8	1984	-4+	1983	25	28.3	1983	738	0	.0	.0	17.8	1.4	15.6	.1
Ann	71.1	50.0	60.6	113	Jul 1954	13	86.2+	Aug 2000	-7	Feb 1951	2	25.8	Jan 1979	3366	1763	8.8	73.1	319.2	5.1	61.8	.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: 1948-2001

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

071-A

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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: SUBIACO, AR

COOP ID: 036928

Climate Division: AR 4

NWS Call Sign:

Elevation: 500 Feet Lat: 35°18N

Lon: 93°38W

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	2.89	2.54	5.55	1949	24	8.26	1998	.50	1986	7.2	5.2	1.8	.7	.58	.84	1.27	1.66	2.05	2.47	2.94	3.52	4.27	5.48	6.63
Feb	2.90	2.71	3.02	1989	15	8.51	1989	.58	1972	6.9	4.7	2.1	.7	.63	.90	1.32	1.71	2.09	2.50	2.97	3.52	4.25	5.42	6.52
Mar	4.01	3.83	3.16	1959	21	9.08	1973	1.35	1993	8.8	6.5	3.1	1.1	1.43	1.81	2.35	2.81	3.25	3.70	4.19	4.76	5.48	6.61	7.64
Apr	4.19	3.87	3.85	1957	3	8.98	1973	.99	1987	8.9	6.3	3.0	1.4	1.12	1.52	2.13	2.66	3.18	3.72	4.33	5.05	5.99	7.45	8.83
May	5.04	4.59	5.81	1979	21	13.73	1979	1.74	1988	10.8	7.9	3.4	1.4	1.53	2.01	2.72	3.34	3.93	4.55	5.23	6.04	7.07	8.69	10.19
Jun	4.26	4.26	3.52	1969	24	8.36	2000	.35	1984	9.3	6.6	2.7	1.3	1.08	1.48	2.10	2.65	3.19	3.76	4.40	5.15	6.13	7.69	9.15
Jul	3.24	2.50	5.48	1970	16	7.50	1994	.46	1974	7.3	5.1	2.3	.9	.78	1.08	1.56	1.98	2.40	2.84	3.34	3.93	4.70	5.93	7.08
Aug	3.01	3.06	4.36	1957	13	7.79	1987	.31	2000	7.6	5.0	2.0	.9	.48	.74	1.18	1.59	2.02	2.49	3.02	3.67	4.55	5.96	7.32
Sep	3.66	3.51	3.97	1965	22	8.25	1974	.52	1978	8.1	5.8	2.8	1.2	.87	1.21	1.75	2.23	2.70	3.20	3.77	4.44	5.32	6.71	8.02
Oct	3.87	2.82	4.31	1991	29	13.62	1984	.50	1978	7.5	5.4	2.5	1.0	.70	1.04	1.61	2.13	2.67	3.25	3.91	4.72	5.78	7.50	9.14
Nov	5.15	4.69	5.50	1994	5	12.48	1994	1.01	1989	8.0	6.4	3.4	1.7	1.15	1.62	2.38	3.06	3.74	4.46	5.27	6.25	7.52	9.56	11.48
Dec	4.03	3.96	6.65	1982	3	11.07	1971	.45	1981	7.5	5.4	2.8	1.1	.96	1.33	1.92	2.45	2.97	3.52	4.14	4.88	5.85	7.38	8.82
Ann	46.25	44.90	6.65	Dec 1982	3	13.73	May 1979	.31	Aug 2000	97.9	70.3	31.9	13.4	33.54	36.02	39.18	41.57	43.69	45.74	47.85	50.18	53.00	57.08	60.60

+ 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: 1948-2001

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

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Station: SUBIACO, AR

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NWS Call Sign:

Elevation: 500 Feet

Lat: 35°18N

Lon: 93°38W

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	.0	#	#	8.0	1977	9	15.1	1977	11	1988	7	4	1977	.9	.6	.3	@	.0	2.0	1.3	.6	@
Feb	1.5	.0	#	#	7.5	1979	7	12.0	1979	8	1985	1	3	1978	.6	.4	.2	.1	.0	1.3	.7	.3	.0
Mar	.1	.0	#	0	1.5	1975	14	1.5	1975	2	1994	9	#+	1999	.2	.1	.0	.0	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1983	19	#+	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	#	1993	29	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.4	.0	#	0	5.0	1971	23	5.0	1971	5	1971	23	#+	1995	.1	.1	.1	@	.0	.1	.1	@	.0
Dec	.6	.0	#	0	7.5	1975	25	9.5	1975	10	1975	26	1+	2000	.4	.1	@	@	.0	.6	.1	.1	@
Ann	4.9	.0	N/A	N/A	8.0	Jan 1977	9	15.1	Jan 1977	11	Jan 1988	7	4	Jan 1977	2.2	1.3	.6	.1	.0	4.0	2.2	1.0	@

+ 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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Elevation: 500 Feet

Lat: 35° 18N

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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	4/22	4/17	4/14	4/12	4/10	4/07	4/05	4/02	3/29
32	4/12	4/07	4/03	3/31	3/28	3/25	3/22	3/19	3/14
28	4/01	3/25	3/21	3/17	3/14	3/10	3/06	3/02	2/23
24	3/16	3/08	3/03	2/27	2/22	2/18	2/13	2/08	2/01
20	3/07	2/27	2/21	2/16	2/12	2/07	2/02	1/27	1/19
16	3/05	2/21	2/13	2/06	1/30	1/23	1/15	1/05	12/18
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	10/08	10/13	10/17	10/20	10/23	10/26	10/30	11/02	11/08
32	10/20	10/25	10/29	11/02	11/05	11/08	11/12	11/16	11/21
28	11/01	11/06	11/10	11/13	11/16	11/19	11/22	11/26	12/01
24	11/08	11/15	11/20	11/24	11/28	12/02	12/07	12/12	12/19
20	11/15	11/24	12/01	12/07	12/12	12/18	12/24	12/31	1/09
16	11/26	12/07	12/15	12/23	12/29	1/05	1/13	1/23	2/11
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	213	207	203	199	196	193	189	185	179
32	246	238	231	226	221	216	211	204	196
28	273	264	258	252	247	242	236	229	220
24	309	299	291	285	278	272	266	258	248
20	337	321	312	305	299	293	286	279	269
16	>365	>365	362	340	328	318	309	299	285

* 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	826	595	397	160	45	2	0	2	19	138	444	738	3366
60	674	464	259	73	12	0	0	0	4	57	308	588	2439
57	588	389	191	38	4	0	0	0	0	29	235	502	1976
55	530	341	152	23	2	0	0	0	0	17	192	445	1702
50	393	236	76	4	0	0	0	0	0	3	107	314	1133
32	72	27	1	0	0	0	0	0	0	0	2	40	142

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	269	359	634	865	1131	1321	1507	1474	1217	932	552	325	10586
55	14	29	72	198	419	631	794	761	527	236	51	17	3749
57	10	20	49	153	360	571	732	699	467	186	34	12	3293
60	2	12	24	98	274	481	639	606	380	121	17	5	2659
65	0	2	7	35	153	333	484	453	246	47	3	0	1763
70	0	0	0	8	68	195	329	308	138	12	0	0	1058

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	117	221	438	665	925	1121	1299	1266	1011	716	357	154	117	338	776	1441	2366	3487	4786	6052	7063	7779	8136	8290
45	58	132	298	516	770	971	1144	1111	861	561	234	84	58	190	488	1004	1774	2745	3889	5000	5861	6422	6656	6740
50	26	67	186	371	615	821	989	956	711	412	140	39	26	93	279	650	1265	2086	3075	4031	4742	5154	5294	5333
55	5	27	103	240	461	671	834	801	561	274	72	18	5	32	135	375	836	1507	2341	3142	3703	3977	4049	4067
60	0	7	48	133	307	521	679	646	415	155	30	1	0	7	55	188	495	1016	1695	2341	2756	2911	2941	2942
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	70	138	268	415	609	767	873	845	676	452	207	93	70	208	476	891	1500	2267	3140	3985	4661	5113	5320	5413

(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/normal/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