

Climatology of the United States

No. 20

1971-2000

Station: PINE BLUFF, AR

COOP ID: 035754

Climate Division: AR 9

NWS Call Sign:

Elevation: 215 Feet Lat: 34°14N Lon: 92°01W

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	50.1	31.5	40.8	83+	1928	11	48.1	1990	-6+	1918	12	30.4	1979	751	0	.0	.0	16.3	2.4	17.7	.0
Feb	56.4	35.6	46.0	91	1918	28	55.6	1976	-5	1899	12	34.5	1978	536	3	.0	.0	19.7	1.4	12.0	.0
Mar	64.8	43.7	54.3	96	1918	5	61.8	1974	11	1932	9	48.2	1996	346	12	.0	@	28.0	@	4.0	.0
Apr	73.9	51.3	62.6	96	1905	23	69.3	1981	29+	1924	1	56.2	1983	135	63	.0	.3	29.7	.0	.3	.0
May	81.4	60.5	71.0	100	1926	29	76.5	1987	36	1909	2	65.4	1976	26	210	.0	3.1	31.0	.0	.0	.0
Jun	88.6	68.6	78.6	107+	1918	20	81.9	1998	49+	1903	12	75.5+	1976	0	408	.2	14.6	30.0	.0	.0	.0
Jul	92.4	72.3	82.4	110+	1924	23	87.0	1980	55	1967	15	78.9	1989	0	538	2.0	23.2	31.0	.0	.0	.0
Aug	91.5	70.6	81.1	112	1943	15	85.9	1980	52	1906	29	76.1	1992	0	498	2.0	21.7	31.0	.0	.0	.0
Sep	85.3	63.6	74.5	110+	1925	5	78.8	1998	36	1967	29	69.2	1974	5	290	.4	10.1	30.0	.0	.0	.0
Oct	75.8	52.0	63.9	100	1928	9	69.5	1971	25	1917	30	57.8	1976	104	69	.0	.8	30.9	.0	.3	.0
Nov	63.1	41.9	52.5	88	1938	1	57.6	1973	14+	1903	19	45.6	1976	382	7	.0	.0	26.3	.1	5.5	.0
Dec	53.7	34.4	44.1	84	1939	7	54.0	1984	1+	1989	23	31.5	1983	650	1	.0	.0	19.8	1.4	14.8	.0
Ann	73.1	52.2	62.7	112	Aug 1943	15	87.0	Jul 1980	-6+	Jan 1918	12	30.4	Jan 1979	2935	2099	4.6	73.8	323.7	5.3	54.6	.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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1887-2001

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

062-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: PINE BLUFF, AR

COOP ID: 035754

Climate Division: AR 9

NWS Call Sign:

Elevation: 215 Feet

Lat: 34°14N

Lon: 92°01W

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	4.21	4.28	5.65	1906	22	8.30	1978	.33	1986	9.9	7.3	2.9	1.3	1.00	1.39	2.01	2.56	3.10	3.68	4.33	5.10	6.12	7.73	9.24
Feb	4.00	3.29	5.32	1939	15	10.54	1989	.75	1972	8.2	5.9	3.1	1.3	1.09	1.47	2.05	2.56	3.05	3.57	4.14	4.82	5.71	7.10	8.40
Mar	5.08	4.91	5.00	1934	26	10.30	1980	1.82	1982	9.8	7.3	3.4	1.6	2.07	2.54	3.20	3.74	4.25	4.77	5.32	5.97	6.78	8.03	9.16
Apr	5.14	4.10	4.69	1942	26	16.35	1991	1.16	1992	8.7	6.5	3.2	1.7	1.13	1.60	2.36	3.04	3.72	4.44	5.26	6.24	7.52	9.57	11.50
May	4.96	4.11	6.80	1905	5	13.01	1979	.77	1998	9.6	6.9	3.1	1.5	1.10	1.56	2.29	2.94	3.60	4.30	5.08	6.02	7.26	9.23	11.09
Jun	3.78	3.46	5.15	1895	16	8.76	1989	.10	1980	8.8	6.0	2.6	1.1	.74	1.08	1.63	2.14	2.66	3.21	3.84	4.60	5.60	7.21	8.74
Jul	4.02	3.77	6.44	1951	3	12.92	1989	.19	1993	8.1	6.1	2.6	1.1	.56	.89	1.47	2.02	2.61	3.26	4.00	4.92	6.15	8.17	10.12
Aug	3.32	3.53	7.83	1969	17	6.84	1978	.00	2000	5.8	4.5	2.0	1.1	.15	.45	.94	1.43	1.95	2.54	3.23	4.09	5.27	7.22	9.12
Sep	3.20	2.57	5.40	1965	11	8.02	1980	.41	1971	6.8	4.8	2.1	1.0	.76	1.06	1.53	1.94	2.36	2.80	3.29	3.88	4.65	5.88	7.03
Oct	4.49	4.11	6.73	1945	1	14.05	1984	.43	1989	7.0	5.3	2.8	1.6	.79	1.19	1.84	2.46	3.09	3.77	4.54	5.48	6.73	8.75	10.68
Nov	4.87	4.73	4.75	1907	20	11.50	1988	1.54	1976	9.3	6.7	3.6	1.5	1.55	2.01	2.70	3.28	3.84	4.43	5.07	5.82	6.78	8.29	9.68
Dec	5.41	4.53	4.38	1982	27	15.02	1982	.72	1981	9.1	7.1	3.4	1.9	1.33	1.84	2.63	3.33	4.02	4.75	5.57	6.54	7.81	9.83	11.72
Ann	52.48	49.84	7.83	Aug 1969	17	16.35	Apr 1991	.00	Aug 2000	101.1	74.4	34.8	16.7	35.64	38.85	42.98	46.15	48.97	51.71	54.55	57.70	61.54	67.14	72.01

+ 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: 1887-2001

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

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Station: PINE BLUFF, AR

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NWS Call Sign:

Elevation: 215 Feet

Lat: 34° 14N

Lon: 92° 01W

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	2.2	.4	#	0	10.0	1988	7	12.0	1988	5	1982	12	#+	1992	.8	.7	.2	.1	.1	.1	.1	.0	.0
Feb	1.0	.0	#	0	5.5	1979	7	8.3	1979	5	1980	10	5	1980	.4	.4	.1	.1	.0	.0	.0	.0	.0
Mar	.0	.0	#	0	.2	1980	1	.2	1980	#+	1980	1	#+	1980	.1	.0	.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	.1	.0	0	0	1.0	1980	27	1.0	1980	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	#	0	2.0	1983	16	4.5	1983	#	1975	25	#	1975	.2	.1	.0	.0	.0	.0	.0	.0	.0
Ann	3.6	.4	N/A	N/A	10.0	Jan 1988	7	12.0	Jan 1988	5+	Jan 1982	12	5	Feb 1980	1.6	1.3	.3	.2	.1	.1	.1	.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

Complete documentation available from:

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NWS Call Sign:

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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	4/16	4/12	4/08	4/05	4/03	3/31	3/28	3/25	3/20
32	4/03	3/28	3/24	3/20	3/16	3/13	3/09	3/05	2/26
28	3/21	3/14	3/09	3/04	2/28	2/23	2/19	2/14	2/06
24	3/14	3/05	2/27	2/22	2/17	2/12	2/07	1/31	1/23
20	2/27	2/17	2/10	2/04	1/29	1/23	1/17	1/08	12/23
16	2/13	2/04	1/28	1/22	1/16	1/08	12/25	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	10/21	10/25	10/28	10/31	11/04	11/07	11/11	11/16
32	10/25	10/31	11/05	11/08	11/12	11/15	11/19	11/23	11/29
28	11/05	11/12	11/17	11/21	11/25	11/29	12/04	12/09	12/16
24	11/13	11/23	11/30	12/06	12/12	12/17	12/23	12/30	1/09
20	12/02	12/11	12/18	12/24	12/29	1/04	1/10	1/18	2/02
16	12/12	12/20	12/26	1/01	1/07	1/14	1/26	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	234	226	220	216	211	207	202	196	189
32	265	256	250	245	240	235	229	223	214
28	298	289	282	276	270	264	258	251	242
24	330	317	308	301	295	288	282	274	263
20	>365	>365	356	339	330	322	314	306	295
16	>365	>365	>365	>365	>365	353	339	329	317

* 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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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	751	536	346	135	26	0	0	0	5	104	382	650	2935
60	601	406	218	61	6	0	0	0	0	40	251	506	2089
57	514	332	157	32	2	0	0	0	0	19	185	421	1662
55	457	286	122	19	1	0	0	0	0	10	147	368	1410
50	325	189	57	4	0	0	0	0	0	2	74	251	902
32	42	14	0	0	0	0	0	0	0	0	1	25	82

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	315	406	689	918	1207	1398	1561	1521	1275	988	615	398	11291
55	16	34	98	248	495	708	848	808	585	285	71	29	4225
57	12	23	71	200	434	648	786	746	525	232	49	20	3746
60	5	13	39	139	345	558	693	653	435	160	25	12	3077
65	0	3	12	63	210	408	538	498	290	69	7	1	2099
70	0	0	1	20	106	260	383	345	163	21	0	0	1299

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	155	247	459	686	971	1166	1314	1280	1039	743	397	205	155	402	861	1547	2518	3684	4998	6278	7317	8060	8457	8662
45	81	155	321	539	816	1016	1159	1125	889	588	267	113	81	236	557	1096	1912	2928	4087	5212	6101	6689	6956	7069
50	42	84	204	397	661	866	1004	970	739	435	164	62	42	126	330	727	1388	2254	3258	4228	4967	5402	5566	5628
55	19	38	112	263	507	716	849	815	589	295	91	27	19	57	169	432	939	1655	2504	3319	3908	4203	4294	4321
60	3	14	53	153	354	566	694	660	440	178	42	8	3	17	70	223	577	1143	1837	2497	2937	3115	3157	3165
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	96	155	278	434	648	803	898	869	702	476	239	122	96	251	529	963	1611	2414	3312	4181	4883	5359	5598	5720

(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.

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| <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 |
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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