

Climatology of the United States

No. 20

1971-2000

Station: PORTLAND, AR

COOP ID: 035866

Climate Division: AR 9

NWS Call Sign:

Elevation: 120 Feet Lat: 33°14N Lon: 91°30W

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	52.4	30.4	41.4	86	1950	16	47.8	1989	-4	1930	19	31.3	1977	732	0	.0	.0	20.0	1.8	15.9	.0
Feb	58.2	34.0	46.1	89	1918	25	53.8	1976	2+	1951	1	35.3	1978	530	0	.0	.0	22.1	.7	10.1	.0
Mar	66.4	42.4	54.4	94	1929	24	59.1	1974	13	1943	3	49.6	1971	336	6	.0	.0	29.7	.0	3.2	.0
Apr	74.5	50.3	62.4	95+	1915	28	68.2	1981	28	1987	4	56.7	1983	123	46	.0	.4	30.0	.0	.4	.0
May	82.6	60.5	71.6	102	1926	30	77.6	1996	38	1925	2	65.5	1976	20	223	.0	5.8	31.0	.0	.0	.0
Jun	89.5	68.2	78.9	106+	1915	21	84.2	1998	48	1917	17	75.1	1976	0	415	.4	18.8	30.0	.0	.0	.0
Jul	92.5	71.2	81.9	109	1954	17	85.3	1980	54+	1947	23	78.6	1972	0	522	1.5	25.1	31.0	.0	.0	.0
Aug	92.1	69.3	80.7	110	1909	17	84.8	2000	52	1986	29	76.6	1992	0	487	1.6	23.4	31.0	.0	.0	.0
Sep	86.6	62.3	74.5	106	1925	7	78.8	1998	38	1967	29	68.5	1974	7	289	.4	13.8	30.0	.0	.0	.0
Oct	77.6	50.6	64.1	99	1926	2	69.2	1998	23+	1910	29	57.2	1976	110	83	.0	1.6	31.0	.0	.3	.0
Nov	65.3	41.0	53.2	89	1927	1	59.6	1985	16+	1938	27	45.9	1976	364	8	.0	.0	28.0	@	4.8	.0
Dec	55.9	33.8	44.9	85+	1922	8	55.4	1984	0	1989	23	36.1	1989	625	0	.0	.0	22.9	.7	13.1	@
Ann	74.5	51.2	62.8	110	Aug 1909	17	85.3	Jul 1980	-4	Jan 1930	19	31.3	Jan 1977	2847	2079	3.9	88.9	336.7	3.2	47.8	@

+ 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: 1909-2001

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

064-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: PORTLAND, AR

COOP ID: 035866

Climate Division: AR 9

NWS Call Sign:

Elevation: 120 Feet Lat: 33°14N

Lon: 91°30W

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	5.56	5.15	5.70	1999	29	16.92	1999	.65	1986	8.1	7.0	3.7	1.8	1.09	1.60	2.41	3.16	3.92	4.73	5.66	6.77	8.24	10.60	12.85
Feb	5.29	4.80	5.45	1991	19	12.48	1975	1.08	1999	7.0	5.9	3.2	1.8	1.19	1.68	2.45	3.15	3.85	4.59	5.42	6.41	7.72	9.81	11.77
Mar	5.90	5.89	4.24	1973	16	12.80	1973	.57	1982	7.9	7.0	3.8	1.9	1.80	2.36	3.20	3.92	4.61	5.34	6.13	7.07	8.27	10.16	11.90
Apr	5.69	4.85	6.73	1974	22	19.23	1991	1.02	1985	6.8	5.8	3.4	1.9	1.11	1.62	2.46	3.23	4.00	4.84	5.79	6.93	8.44	10.87	13.18
May	5.31	4.59	6.83	1978	7	16.00	1978	.69	1988	8.3	7.2	3.6	1.5	1.17	1.66	2.44	3.14	3.84	4.59	5.43	6.44	7.77	9.89	11.89
Jun	4.55	4.21	4.00	1989	29	14.88	1989	.62	1988	7.5	6.3	3.1	1.4	1.02	1.44	2.11	2.71	3.31	3.95	4.66	5.52	6.65	8.45	10.14
Jul	4.01	3.55	6.15	1989	1	12.83	1989	.38	1978	6.5	5.5	2.6	1.2	.34	.62	1.15	1.71	2.32	3.01	3.84	4.88	6.31	8.71	11.07
Aug	2.85	2.25	3.62	1992	5	8.30	1975	.00	2000	5.5	4.5	2.1	.8	.47	.85	1.34	1.73	2.11	2.52	2.96	3.49	4.18	5.27	6.29
Sep	2.91	2.77	6.00	1958	11	5.56	1976	.00	1982	5.4	4.4	2.1	.8	.74	1.15	1.63	2.00	2.35	2.70	3.09	3.53	4.10	4.98	5.79
Oct	3.92	3.24	6.60	1941	31	11.59	1984	.18	1983	5.6	4.9	2.2	1.4	.43	.73	1.27	1.82	2.40	3.06	3.83	4.79	6.09	8.24	10.34
Nov	5.19	4.83	6.90	1987	16	11.68	1986	1.12	1999	7.2	6.2	3.5	1.6	1.77	2.26	2.97	3.58	4.16	4.76	5.41	6.18	7.16	8.67	10.07
Dec	5.85	5.07	7.00	1983	3	18.32	1982	.70	1980	7.4	6.4	3.6	1.7	1.35	1.89	2.75	3.52	4.28	5.09	6.00	7.09	8.52	10.79	12.92
Ann	57.03	53.78	7.00	Dec 1983	3	19.23	Apr 1991	.00+	Aug 2000	83.2	71.1	36.9	17.8	38.91	42.35	46.80	50.20	53.24	56.18	59.23	62.61	66.73	72.73	77.94

+ 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: 1909-2001

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

Complete documentation available from:
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Station: PORTLAND, AR

COOP ID: 035866

Climate Division: AR 9

NWS Call Sign:

Elevation: 120 Feet

Lat: 33°14N

Lon: 91°30W

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	.3	.0	#	0	2.8	1975	12	2.8	1975	3	1977	18	#	1977	.1	.1	.0	.0	.0	.1	.1	.0	.0
Feb	.1	.0	#	0	1.0	1988	11	1.0	1988	#	1979	18	#	1979	.1	.1	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1982	6	#	1982	0	0	0	0	0	.0	.0	.0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	#	0	#	1976	29	#	1976	#	1976	29	#	1976	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	#	0	#	1996	18	#+	1996	3	1983	17	#+	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.4	.0	N/A	N/A	2.8	Jan 1975	12	2.8	Jan 1975	3+	Dec 1983	17	#+	Dec 1996	.2	.2	.0	.0	.0	.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:

Elevation: 120 Feet

Lat: 33° 14N

Lon: 91° 30W

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	4/14	4/10	4/07	4/04	4/02	3/30	3/27	3/24	3/20
32	4/07	3/31	3/26	3/22	3/18	3/14	3/09	3/04	2/25
28	3/21	3/13	3/08	3/03	2/26	2/22	2/17	2/12	2/04
24	3/12	3/03	2/24	2/18	2/13	2/07	2/01	1/26	1/16
20	3/02	2/20	2/13	2/07	2/01	1/25	1/18	1/08	0/00
16	2/06	1/30	1/25	1/19	1/12	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	10/12	10/18	10/22	10/26	10/29	11/01	11/05	11/09	11/15
32	10/26	11/01	11/05	11/08	11/12	11/15	11/19	11/23	11/28
28	11/04	11/11	11/15	11/19	11/23	11/26	11/30	12/05	12/11
24	11/18	11/25	12/01	12/05	12/10	12/14	12/19	12/24	1/01
20	11/21	12/03	12/12	12/20	12/27	1/04	1/13	1/25	0/00
16	12/21	12/30	1/07	1/15	1/26	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	230	223	218	214	210	206	202	197	190
32	267	257	250	244	238	233	227	219	210
28	298	288	281	274	268	263	256	249	239
24	331	319	311	304	298	292	286	278	268
20	>365	>365	364	340	326	316	305	294	279
16	>365	>365	>365	>365	>365	>365	>365	353	337

* 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	732	530	336	123	20	0	0	0	7	110	364	625	2847
60	583	398	202	47	4	0	0	0	1	46	235	481	1997
57	495	321	139	21	1	0	0	0	0	23	171	397	1568
55	439	273	104	11	0	0	0	0	0	13	134	344	1318
50	308	172	42	1	0	0	0	0	0	2	65	230	820
32	36	8	0	0	0	0	0	0	0	0	0	19	63

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	328	402	694	913	1226	1405	1545	1510	1272	996	634	417	11342
55	17	23	84	234	513	715	832	797	582	296	78	29	4200
57	12	15	57	184	451	655	770	735	522	244	54	20	3719
60	7	8	28	120	362	565	677	642	433	174	29	11	3056
65	0	0	6	46	223	415	522	487	289	83	8	0	2079
70	0	0	0	11	114	268	367	333	164	30	0	0	1287

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	192	290	520	728	1008	1191	1323	1287	1064	789	453	250	192	482	1002	1730	2738	3929	5252	6539	7603	8392	8845	9095
45	108	186	373	579	853	1041	1168	1132	914	635	316	150	108	294	667	1246	2099	3140	4308	5440	6354	6989	7305	7455
50	57	101	243	433	698	891	1013	977	764	482	204	79	57	158	401	834	1532	2423	3436	4413	5177	5659	5863	5942
55	21	51	141	288	543	741	858	822	614	335	113	36	21	72	213	501	1044	1785	2643	3465	4079	4414	4527	4563
60	3	17	63	169	391	591	703	667	466	206	52	13	3	20	83	252	643	1234	1937	2604	3070	3276	3328	3341
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	123	188	318	466	685	816	898	867	717	518	282	154	123	311	629	1095	1780	2596	3494	4361	5078	5596	5878	6032

(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