

Climatology of the United States

No. 20

1971-2000

Station: LITTLE ROCK ADAMS AP, AR

COOP ID: 034248

Climate Division: AR 5

NWS Call Sign: LIT

Elevation: 257 Feet Lat: 34°45N Lon: 92°14W

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	49.5	30.8	40.1	83	1950	25	48.1	1990	-8	1918	12	29.3	1979	775	1	.0	.0	15.5	2.9	18.4	@
Feb	55.6	34.8	45.2	87	1918	25	52.9	1976	-12	1899	12	33.2	1978	563	1	.0	.0	19.2	1.3	11.2	.0
Mar	64.2	42.6	53.4	91	1974	31	58.2	1973	11	1943	3	48.2	1996	369	14	.0	@	27.8	.0	4.0	.0
Apr	72.9	50.0	61.4	95	1987	20	66.4	1981	28+	1920	5	54.4	1983	150	52	.0	.3	29.8	.0	.5	.0
May	81.0	59.2	70.1	98+	1964	26	76.3	1987	39	1903	1	64.3	1976	24	188	.0	3.0	31.0	.0	.0	.0
Jun	89.0	67.8	78.4	105+	1936	20	83.1	1998	46	1969	3	74.2	1974	0	408	.4	15.8	30.0	.0	.0	.0
Jul	92.8	72.0	82.4	112	1986	31	87.6	1980	54	1972	7	79.3	1989	0	542	3.1	22.9	31.0	.0	.0	.0
Aug	92.1	70.5	81.3	110	1936	10	86.7	1995	52+	1967	28	76.5	1992	0	502	3.4	21.1	31.0	.0	.0	.0
Sep	85.1	63.6	74.4	106	1947	1	80.6	1998	37	1942	27	69.2	1974	13	296	.6	9.7	30.0	.0	.0	.0
Oct	75.1	51.5	63.3	97+	1963	10	69.5	1971	27	1917	30	58.0	1976	124	72	.0	.7	30.9	.0	.1	.0
Nov	62.0	41.5	51.7	86	1955	13	56.9	1973	17+	1950	24	46.2	1976	400	8	.0	.0	26.0	@	5.1	.0
Dec	52.5	33.9	43.2	80+	1951	31	52.1	1984	-1+	1963	24	30.9	1983	666	2	.0	.0	18.5	1.7	14.4	.1
Ann	72.7	51.5	62.1	112	Jul 1986	31	87.6	Jul 1980	-12	Feb 1899	12	29.3	Jan 1979	3084	2086	7.5	73.5	320.7	5.9	53.7	.1

+ 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: 1897-2001

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

046-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: LITTLE ROCK ADAMS AP, AR

COOP ID: 034248

Climate Division: AR 5

NWS Call Sign: LIT

Elevation: 257 Feet

Lat: 34°45N

Lon: 92°14W

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	3.61	3.06	5.07	1907	2	8.74	1982	.50	1986	9.6	6.1	2.5	.9	.88	1.22	1.75	2.22	2.68	3.17	3.72	4.37	5.22	6.58	7.84
Feb	3.33	3.17	4.18	1921	7	9.55	1989	.89	1980	8.3	5.2	2.5	1.0	1.07	1.39	1.85	2.25	2.63	3.03	3.47	3.98	4.63	5.65	6.60
Mar	4.88	4.10	3.21	1944	18	10.40	1990	2.07	1974	10.0	7.2	3.4	1.8	2.26	2.69	3.28	3.75	4.20	4.64	5.12	5.66	6.35	7.38	8.31
Apr	5.47	4.71	8.81	1913	9	14.20	1973	.50	1987	9.7	6.9	3.6	1.7	1.18	1.69	2.49	3.22	3.95	4.72	5.60	6.65	8.03	10.24	12.33
May	5.05	4.56	7.68	1955	26	11.54	1979	2.05	1988	10.6	7.7	3.7	1.5	2.09	2.55	3.20	3.74	4.24	4.75	5.29	5.92	6.72	7.94	9.05
Jun	3.95	4.03	3.79	1958	25	7.82	1974	.53	1980	9.2	6.2	2.6	1.0	.87	1.23	1.81	2.34	2.86	3.42	4.04	4.79	5.78	7.36	8.84
Jul	3.31	3.07	5.69	1902	31	7.95	1988	.14	1986	8.3	5.5	2.2	.8	.58	.87	1.36	1.81	2.27	2.77	3.34	4.03	4.95	6.44	7.86
Aug	2.93	2.46	6.79	1966	13	8.62	1971	.00	1995	6.5	4.4	1.9	1.0	.14	.40	.84	1.27	1.73	2.24	2.85	3.60	4.63	6.34	8.00
Sep	3.71	3.34	8.10	1978	13	10.17	1978	.41	1983	7.9	5.5	2.1	1.0	.75	1.09	1.63	2.13	2.63	3.17	3.78	4.51	5.48	7.04	8.51
Oct	4.25	3.81	5.11	1984	18	15.35	1984	.63	1977	7.5	5.1	2.6	1.5	.69	1.06	1.67	2.26	2.86	3.52	4.27	5.19	6.41	8.40	10.30
Nov	5.73	5.70	6.23	1988	19	13.14	1988	.26	1999	9.0	6.0	3.6	2.0	1.20	1.73	2.57	3.34	4.10	4.93	5.85	6.97	8.43	10.78	13.00
Dec	4.71	3.76	5.76	1987	24	16.48	1987	1.34	1981	9.7	6.5	3.0	1.4	1.22	1.67	2.35	2.95	3.55	4.17	4.86	5.68	6.76	8.45	10.03
Ann	50.93	47.94	8.81	Apr 1913	9	16.48	Dec 1987	.00	Aug 1995	106.3	72.3	33.7	15.6	36.12	38.98	42.65	45.44	47.91	50.31	52.78	55.51	58.83	63.64	67.80

+ 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

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Climate Division: AR 5

NWS Call Sign: LIT

Elevation: 257 Feet

Lat: 34°45N

Lon: 92°14W

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	2.0	.5	#	0	10.4	1988	6	13.6	1988	13	1988	7	1+	1988	1.1	.7	.2	.1	@	1.4	.5	.2	.1
Feb	1.3	.1	#	0	5.0	1982	26	9.8	1979	5+	1985	2	1+	1985	.8	.4	.2	.1	.0	.7	.4	.1	.0
Mar	.6	.0	#	0	5.2	1971	2	7.0	1971	4+	1984	10	#	1995	.3	.2	.1	@	.0	.1	.1	.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	#	1996	.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	30	#	1993	#	1993	30	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	4.4	1971	23	4.8	1971	3	1971	23	#	1980	.3	.1	@	.0	.0	.1	@	.0	.0
Dec	.1	#	0	0	1.0	1975	24	1.0	1975	#+	1989	17	0	0	.3	.0	.0	.0	.0	.0	.0	.0	.0
Ann	4.3	.6	N/A	N/A	10.4	Jan 1988	6	13.6	Jan 1988	13	Jan 1988	7	1+	Jan 1988	2.8	1.4	.5	.2	@	2.3	1.0	.3	.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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Lat: 34° 45N

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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	4/09	4/06	4/04	4/02	3/30	3/28	3/24
32	4/09	4/03	3/29	3/26	3/22	3/19	3/15	3/11	3/05
28	3/26	3/19	3/13	3/09	3/05	2/28	2/24	2/18	2/11
24	3/08	3/02	2/26	2/22	2/18	2/15	2/11	2/06	1/31
20	3/09	2/26	2/19	2/12	2/06	1/31	1/24	1/16	1/03
16	2/13	2/04	1/29	1/24	1/18	1/13	1/06	12/27	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	10/19	10/23	10/27	10/29	11/01	11/03	11/06	11/09	11/14
32	10/29	11/03	11/06	11/09	11/12	11/15	11/18	11/22	11/27
28	11/07	11/12	11/16	11/20	11/23	11/26	11/30	12/04	12/10
24	11/15	11/22	11/28	12/02	12/06	12/10	12/15	12/20	12/27
20	11/22	12/04	12/12	12/20	12/27	1/03	1/10	1/20	2/03
16	12/12	12/20	12/26	12/31	1/05	1/10	1/16	1/26	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	229	222	218	214	210	206	202	198	191
32	257	249	243	238	234	229	225	219	211
28	292	282	275	269	263	257	251	244	234
24	316	307	301	295	290	285	280	273	264
20	>365	>365	336	324	315	308	300	291	280
16	>365	>365	>365	>365	358	346	337	327	316

* 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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Climate Division: AR 5 NWS Call Sign: LIT Elevation: 257 Feet Lat: 34°45N Lon: 92°14W

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	775	563	369	150	24	0	0	0	13	124	400	666	3084
60	623	427	229	64	10	0	0	0	1	48	266	532	2200
57	535	352	163	32	4	0	0	0	0	24	196	447	1753
55	478	305	126	18	2	0	0	0	0	13	155	392	1489
50	345	204	57	3	0	0	0	0	0	2	78	272	961
32	52	18	0	0	0	0	0	0	0	0	1	31	102

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	292	389	671	892	1189	1396	1565	1530	1273	974	596	372	11139
55	12	26	96	230	476	706	852	817	584	278	74	21	4172
57	7	17	72	185	415	646	790	755	524	227	54	14	3706
60	3	8	43	124	325	556	697	662	436	160	32	8	3054
65	1	1	14	52	188	408	542	502	296	72	8	2	2086
70	0	0	3	13	86	259	387	353	173	23	1	0	1298

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	136	228	443	662	949	1166	1326	1291	1047	734	373	185	136	364	807	1469	2418	3584	4910	6201	7248	7982	8355	8540
45	73	137	303	512	794	1016	1171	1136	897	581	244	97	73	210	513	1025	1819	2835	4006	5142	6039	6620	6864	6961
50	31	67	183	369	639	866	1016	981	747	429	147	50	31	98	281	650	1289	2155	3171	4152	4899	5328	5475	5525
55	11	28	101	237	484	716	861	826	597	284	77	22	11	39	140	377	861	1577	2438	3264	3861	4145	4222	4244
60	0	6	46	133	333	566	706	671	448	163	37	3	0	6	52	185	518	1084	1790	2461	2909	3072	3109	3112
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	86	137	258	405	631	804	903	878	706	464	219	108	86	223	481	886	1517	2321	3224	4102	4808	5272	5491	5599

(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.

- 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/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