

Climatology of the United States

No. 20

1971-2000

Station: ALUM FORK, AR

COOP ID: 030130

Climate Division: AR 5

NWS Call Sign:

Elevation: 698 Feet

Lat: 34°48N

Lon: 92°51W

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	47.8	26.9	37.4	80	1950	25	44.4	1990	-3	1985	20	26.0	1979	857	0	.0	.0	17.8	2.0	19.0	.1
Feb	53.5	30.4	42.0	85	1986	20	49.5	1976	-7	1951	2	30.3	1978	647	0	.0	.0	20.6	1.1	13.3	@
Mar	61.8	38.7	50.3	91	1974	31	55.5	1974	12	1996	9	44.8	1975	459	2	.0	@	28.6	@	5.9	.0
Apr	70.6	47.0	58.8	95+	1987	20	65.2	1981	27+	1975	3	52.2	1983	206	21	.0	.2	29.9	.0	1.0	.0
May	77.7	56.8	67.3	98	1964	26	71.7	1998	36	1954	4	63.1	1976	52	122	.0	.7	31.0	.0	.0	.0
Jun	85.3	64.4	74.9	102+	1952	28	78.6	1998	47+	1969	5	70.6	1974	2	297	.0	10.5	30.0	.0	.0	.0
Jul	90.8	68.5	79.7	110	1986	27	85.8	1980	52+	1972	6	76.5	1989	0	454	2.4	22.4	31.0	.0	.0	.0
Aug	89.9	66.6	78.3	108	1964	4	84.2	2000	50	1986	30	72.3	1992	2	414	2.0	20.9	31.0	.0	.0	.0
Sep	82.9	60.4	71.7	107	2000	1	76.9	1998	36	1967	29	64.6	1974	21	220	.5	8.5	30.0	.0	.0	.0
Oct	73.7	49.3	61.5	99	1963	5	66.5	1971	28+	1952	29	56.8	1976	146	38	.0	.6	30.9	.0	.3	.0
Nov	59.8	38.3	49.1	85	1978	4	54.9	1990	13	1970	24	42.6	1972	481	1	.0	.0	26.5	@	6.5	.0
Dec	50.6	30.4	40.5	84	1955	25	48.6	1984	-3	1989	22	28.1	1983	758	0	.0	.0	20.2	1.3	15.5	.1
Ann	70.4	48.1	59.3	110	Jul 1986	27	85.8	Jul 1980	-7	Feb 1951	2	26.0	Jan 1979	3631	1569	4.9	63.8	327.5	4.4	61.5	.2

+ 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

002-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: ALUM FORK, AR

COOP ID: 030130

Climate Division: AR 5

NWS Call Sign:

Elevation: 698 Feet

Lat: 34°48N

Lon: 92°51W

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	3.65	3.22	7.00	1956	29	8.21	1999	.09	1986	9.0	6.2	2.7	.8	.82	1.16	1.69	2.18	2.66	3.17	3.75	4.43	5.34	6.78	8.14
Feb	3.93	3.45	4.00	1950	12	11.67	1989	1.30	1972	8.0	5.4	2.9	1.2	1.14	1.52	2.08	2.56	3.04	3.53	4.07	4.72	5.55	6.85	8.06
Mar	5.35	4.66	4.19	1975	28	11.27	1975	1.17	1993	9.8	7.2	3.7	1.8	1.73	2.24	2.99	3.63	4.25	4.88	5.58	6.39	7.44	9.08	10.58
Apr	5.45	5.16	5.00	1997	4	12.05	1991	1.47	1987	9.4	6.7	3.6	1.9	1.64	2.16	2.94	3.60	4.25	4.92	5.66	6.53	7.66	9.42	11.05
May	5.65	5.29	3.77	1965	10	12.76	1979	1.16	1977	11.3	7.9	4.3	1.9	1.66	2.19	3.00	3.70	4.38	5.08	5.86	6.78	7.97	9.83	11.56
Jun	4.64	3.72	7.20	1959	9	10.06	1974	1.36	1984	8.9	6.5	3.3	1.5	1.24	1.68	2.35	2.94	3.52	4.13	4.80	5.59	6.63	8.26	9.78
Jul	3.60	2.99	4.10	1981	1	9.31	1989	.00	1986	8.7	5.6	2.6	1.2	.40	.84	1.44	1.96	2.49	3.05	3.68	4.44	5.45	7.07	8.61
Aug	2.94	2.43	5.25	1957	13	7.17	1984	.22	1980	7.1	4.7	2.0	1.0	.55	.81	1.24	1.64	2.05	2.48	2.98	3.59	4.39	5.68	6.91
Sep	3.77	3.79	6.37	1965	22	7.75	1973	.40	1982	8.2	5.5	2.6	1.4	.87	1.22	1.78	2.27	2.76	3.29	3.87	4.57	5.49	6.95	8.32
Oct	4.85	4.31	5.94	1984	6	20.19	1984	.79	1978	7.4	5.1	3.1	1.7	.70	1.11	1.80	2.48	3.18	3.95	4.84	5.93	7.40	9.79	12.09
Nov	6.07	7.08	5.30	1985	27	11.90	2000	1.58	1981	9.0	6.6	3.7	2.1	1.78	2.35	3.22	3.97	4.70	5.46	6.30	7.29	8.57	10.57	12.43
Dec	5.25	4.16	4.82	1982	3	14.88	1987	.56	1981	9.4	6.6	3.4	1.7	1.29	1.79	2.55	3.23	3.91	4.62	5.41	6.36	7.59	9.55	11.39
Ann	55.15	54.15	7.20	Jun 1959	9	20.19	Oct 1984	.00	Jul 1986	106.2	74.0	37.9	18.2	39.94	42.90	46.69	49.56	52.10	54.55	57.08	59.88	63.26	68.15	72.37

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: ALUM FORK, AR

COOP ID: 030130

Climate Division: AR 5

NWS Call Sign:

Elevation: 698 Feet

Lat: 34°48N

Lon: 92°51W

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	3.3	3.3	#	0	5.0	1995	22	10.8	1978	6	1978	20	3	1978	1.2	.9	.3	.1	.0	1.0	.7	.2	.0
Feb	.8	.0	#	0	8.0	1979	7	8.0	1979	10+	1985	5	6	1985	.8	.6	.1	.1	.0	1.0	.3	@	.0
Mar	.3	.0	#	0	2.0	1995	3	2.0	1995	2	1987	30	#+	1987	.2	.1	.0	.0	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1980	13	#	1980	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	.2	.0	#	0	2.5	1976	14	2.5	1976	#	1976	11	#	1976	.1	.1	.0	.0	.0	.0	.0	.0	.0
Dec	.7	.0	#	0	3.0	1975	25	5.0	2000	3	1975	25	#+	1990	.7	.3	.1	.0	.0	.1	@	.0	.0
Ann	5.3	3.3	N/A	N/A	8.0	Feb 1979	7	10.8	Jan 1978	10+	Feb 1985	5	6	Feb 1985	3.0	2.0	.5	.2	.0	2.1	1.0	.2	.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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Climatography of the United States

No. 20 1971-2000

Station: ALUM FORK, AR

COOP ID: 030130

Climate Division: AR 5

NWS Call Sign:

Elevation: 698 Feet

Lat: 34° 48N

Lon: 92° 51W

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	4/19	4/16	4/13	4/11	4/09	4/07	4/05	4/02	3/30
32	4/16	4/10	4/06	4/03	3/31	3/28	3/24	3/20	3/15
28	3/31	3/24	3/20	3/16	3/12	3/09	3/05	2/28	2/22
24	3/18	3/10	3/04	2/27	2/23	2/18	2/14	2/08	1/31
20	3/16	3/04	2/24	2/17	2/10	2/03	1/27	1/19	1/08
16	2/28	2/19	2/13	2/07	2/02	1/27	1/20	1/11	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	10/15	10/19	10/23	10/25	10/28	10/30	11/02	11/05	11/10
32	10/25	10/30	11/02	11/05	11/08	11/11	11/14	11/17	11/22
28	11/01	11/07	11/10	11/14	11/17	11/20	11/23	11/27	12/02
24	11/12	11/19	11/24	11/28	12/02	12/06	12/10	12/15	12/22
20	11/15	11/27	12/05	12/12	12/18	12/25	1/01	1/09	1/20
16	12/02	12/13	12/20	12/27	1/03	1/10	1/18	1/29	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	219	213	208	205	201	198	194	190	184
32	244	236	231	226	221	217	212	207	199
28	274	265	259	254	249	244	238	232	223
24	313	302	294	288	281	275	269	261	250
20	>365	330	317	309	302	295	288	280	270
16	>365	>365	>365	343	331	322	314	304	293

* 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:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: ALUM FORK, AR

COOP ID: 030130

Climate Division: AR 5

NWS Call Sign:

Elevation: 698 Feet

Lat: 34°48N

Lon: 92°51W

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	857	647	459	206	52	2	0	2	21	146	481	758	3631
60	702	512	317	104	13	0	0	0	4	60	342	605	2659
57	613	434	239	61	5	0	0	0	0	31	265	518	2166
55	556	384	194	40	2	0	0	0	0	18	219	460	1873
50	414	268	105	10	0	0	0	0	0	3	126	324	1250
32	74	32	2	0	0	0	0	0	0	0	4	38	150

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	240	309	568	804	1093	1285	1477	1435	1189	915	514	302	10131
55	9	17	47	154	382	595	764	722	499	220	40	12	3461
57	3	12	30	115	322	535	702	660	439	171	26	7	3022
60	0	6	14	69	238	445	609	567	353	107	12	1	2421
65	0	0	2	21	122	297	454	414	220	38	1	0	1569
70	0	0	0	4	46	163	300	271	117	8	0	0	909

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	143	233	440	663	913	1101	1278	1244	1011	737	376	180	143	376	816	1479	2392	3493	4771	6015	7026	7763	8139	8319
45	68	135	303	514	758	951	1123	1089	861	582	250	95	68	203	506	1020	1778	2729	3852	4941	5802	6384	6634	6729
50	31	70	186	370	603	801	968	934	711	430	151	45	31	101	287	657	1260	2061	3029	3963	4674	5104	5255	5300
55	6	26	100	235	450	651	813	779	561	286	79	19	6	32	132	367	817	1468	2281	3060	3621	3907	3986	4005
60	0	3	43	127	299	501	658	624	413	167	31	3	0	3	46	173	472	973	1631	2255	2668	2835	2866	2869
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	93	159	279	422	606	761	863	835	680	470	224	112	93	252	531	953	1559	2320	3183	4018	4698	5168	5392	5504

(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