U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: EL DORADO S AZ RGNL AP, AR **COOP ID: 032300**

Climate Division: AR 8 **NWS Call Sign: ELD** **Elevation: 252 Feet** **Lat: 33˚13N** **Lon: 92˚49W**

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	54.3	32.9	43.6	83	1950	25	50.7	1990	-10	1962	12	34.4+	1979	663	0	.0	.0	19.8	1.4	16.8	.0
Feb	60.3	36.3	48.3	88+	1977	25	54.8+	2000	-9	1951	2	34.3	1978	472	5	.0	.0	22.5	.8	11.5	.0
Mar	68.8	43.9	56.4	91+	1974	31	61.2	1974	13	1943	3	50.8	1978	286	17	.0	.1	29.7	.0	4.8	.0
Apr	76.4	51.0	63.7	96	1987	20	69.0	1981	26+	1987	4	58.9	1983	101	61	.0	.3	29.9	.0	.7	.0
May	82.8	60.1	71.5	99	1934	31	75.6	2000	36	1960	1	67.0	1981	19	219	.0	3.3	31.0	.0	.0	.0
Jun	89.3	67.4	78.4	108	1936	20	83.3	1977	46	1966	1	73.9	1974	0	401	.4	15.7	30.0	.0	.0	.0
Jul	92.7	71.2	82.0	110	1930	29	86.5	1998	53	1947	23	78.3	1971	0	525	2.1	23.9	31.0	.0	.0	.0
Aug	92.5	69.8	81.2	112+	1936	10	87.6	2000	50	1967	14	77.0	1992	0	501	2.4	23.2	31.0	.0	.0	.0
Sep	86.7	63.5	75.1	110	2000	3	79.8	1998	35	1967	29	68.4	1974	6	308	.5	12.6	30.0	.0	.0	.0
Oct	77.1	51.6	64.4	98	1938	1	69.4	1973	26+	1957	28	59.4	1976	94	74	.0	1.3	30.9	.0	.4	.0
Nov	65.3	42.2	53.8	88+	1978	4	60.2	1985	9	1932	20	46.4	1972	351	13	.0	.0	27.6	.0	6.2	.0
Dec	56.9	35.3	46.1	83	1948	14	57.2	1984	-4	1963	24	36.6	1983	588	3	.0	.0	22.5	.8	14.4	.0
Ann	75.3	52.1	63.7	112+	Aug 1936	10	87.6	Aug 2000	-10	Jan 1962	12	34.3	Feb 1978	2580	2127	5.4	80.4	335.9	3.0	54.8	.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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1930-2001

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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	4.93	5.02	6.15	1930	8	10.60	1999	.73	1986
Feb	4.24	3.79	3.95	1990	3	9.84	1987	.68	1999
Mar	5.15	4.70	4.21	1976	8	11.75	1990	1.19	1982
Apr	4.55	3.80	10.65	1958	26	18.56	1991	.36	1987
May	5.49	5.12	5.20	1930	17	13.12	1981	1.35	1985
Jun	5.18	4.42	8.77	1986	27	15.60	1986	.65	1988
Jul	4.13	4.11	5.50	1933	25	9.99	1996	.57	1986
Aug	3.22	2.54	4.37	1978	29	8.19	1997	.10	2000
Sep	3.29	2.89	4.81	1998	12	8.47	1974	.48	1978
Oct	4.33	3.66	6.60	1985	19	12.98	1984	.13	1977
Nov	4.80	4.46	4.80+	1934	21	11.88	1987	.51	1999
Dec	4.80	4.43	5.35	1931	13	12.59	1982	.38	1981
Ann	54.11	53.31	10.65	Apr 1958	26	18.56	Apr 1991	.10	Aug 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.9	7.1	3.3	1.4
Feb	8.3	5.9	2.9	1.5
Mar	10.1	6.9	3.7	1.7
Apr	8.5	5.9	2.8	1.6
May	10.7	7.8	3.6	1.7
Jun	8.4	6.0	3.3	1.5
Jul	8.3	5.7	2.7	1.4
Aug	7.3	4.9	2.2	.9
Sep	6.6	4.3	2.1	1.0
Oct	7.3	5.2	2.7	1.3
Nov	8.8	5.8	3.1	1.6
Dec	9.7	6.3	3.0	1.5
Ann	104.9	71.8	35.4	17.1

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.43	1.90	2.60	3.21	3.81	4.43	5.11	5.92	6.96	8.60	10.12
Feb	1.09	1.49	2.10	2.65	3.18	3.75	4.37	5.12	6.09	7.63	9.06
Mar	1.99	2.47	3.15	3.72	4.25	4.80	5.39	6.07	6.94	8.28	9.50
Apr	.65	1.03	1.68	2.32	2.98	3.70	4.54	5.56	6.95	9.20	11.37
May	1.53	2.06	2.85	3.54	4.21	4.91	5.69	6.61	7.81	9.69	11.44
Jun	.77	1.21	1.96	2.67	3.42	4.23	5.17	6.32	7.87	10.38	12.79
Jul	.76	1.13	1.74	2.30	2.87	3.48	4.18	5.03	6.15	7.96	9.68
Aug	.40	.65	1.10	1.55	2.03	2.56	3.18	3.94	4.97	6.67	8.32
Sep	.52	.80	1.28	1.73	2.20	2.71	3.30	4.02	4.98	6.55	8.05
Oct	.35	.64	1.21	1.80	2.47	3.22	4.13	5.27	6.84	9.48	12.08
Nov	1.19	1.64	2.34	2.96	3.57	4.22	4.94	5.80	6.93	8.71	10.38
Dec	.97	1.41	2.11	2.75	3.40	4.10	4.89	5.84	7.09	9.10	11.00
Ann	37.75	40.89	44.93	48.00	50.74	53.39	56.13	59.17	62.86	68.22	72.86

\+ 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: 1930-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	1.1	.0	#	0
Feb	.4	.0	#	0
Mar	.1	.0	#	0
Apr	#	.0	0	0
May	.0	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.1	.0	#	0
Ann	1.7	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	7.3	2000	27	8.0	2000	5+	2000	30	1	2000
Feb	4.0	1985	2	5.0	1985	5	1985	2	#	2000
Mar	1.2	1975	4	1.3	1975	1	1971	3	#	1971
Apr	#	1980	13	#	1980	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	#	2000
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.7	1980	26	.7	1980	0	0	0	0	0
Dec	.8	1983	16	.8	1983	6	1983	17	#	1983
Ann	7.3	Jan 2000	27	8.0	Jan 2000	6	Dec 1983	17	1	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.6	.5	.1	@	.0
Feb	.5	.2	@	.0	.0
Mar	.1	.1	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.2	.0	.0	.0	.0
Ann	1.4	.8	.1	@	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.8	.2	.1	.0
Feb	.6	.1	@	.0
Mar	@	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.1	.1	@	.0
Ann	1.5	.4	.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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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	4/18	4/14	4/11	4/08	4/06	4/03	4/01	3/28	3/24
32	4/12	4/07	4/03	3/31	3/28	3/25	3/22	3/18	3/13
28	4/01	3/25	3/19	3/15	3/11	3/06	3/02	2/24	2/17
24	3/15	3/07	3/01	2/25	2/20	2/16	2/11	2/05	1/29
20	3/05	2/24	2/17	2/12	2/06	2/01	1/25	1/17	1/02
16	2/20	2/10	2/02	1/26	1/19	1/11	12/30	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	10/11	10/16	10/20	10/23	10/26	10/30	11/02	11/06	11/11
32	10/22	10/28	11/01	11/04	11/07	11/10	11/13	11/17	11/23
28	11/02	11/07	11/11	11/15	11/18	11/21	11/24	11/28	12/04
24	11/15	11/22	11/27	12/01	12/05	12/09	12/13	12/18	12/25
20	11/19	11/30	12/08	12/15	12/22	12/29	1/05	1/15	2/02
16	12/12	12/19	12/25	12/30	1/05	1/11	1/23	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	223	216	211	207	203	199	195	190	183
32	247	239	233	228	223	219	214	208	200
28	282	271	264	257	251	245	239	231	221
24	314	305	298	292	287	282	276	270	260
20	>365	362	340	327	317	308	299	289	275
16	>365	>365	>365	>365	>365	348	331	318	303

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	663	472	286	101	19	0	0	0	6	94	351	588	2580
60	517	344	170	36	3	0	0	0	0	35	228	444	1777
57	431	273	116	15	0	0	0	0	0	16	168	362	1381
55	376	231	87	8	0	0	0	0	0	8	134	310	1154
50	255	144	35	1	0	0	0	0	0	1	67	202	705
32	22	6	0	0	0	0	0	0	0	0	0	13	41

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	382	463	754	950	1223	1391	1548	1524	1292	1003	652	451	11633
55	23	43	128	267	510	701	835	811	602	298	96	35	4349
57	16	30	96	215	448	641	773	749	542	243	70	24	3847
60	9	17	56	145	358	551	680	656	452	170	40	14	3148
65	0	5	17	61	219	401	525	501	308	74	13	3	2127
70	0	0	3	16	110	254	370	348	181	23	2	0	1307

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	194	289	519	718	983	1160	1308	1281	1063	765	420	247	194	483	1002	1720	2703	3863	5171	6452	7515	8280	8700	8947
45	112	186	373	569	828	1010	1153	1126	913	611	291	149	112	298	671	1240	2068	3078	4231	5357	6270	6881	7172	7321
50	60	108	247	422	673	860	998	971	763	458	185	79	60	168	415	837	1510	2370	3368	4339	5102	5560	5745	5824
55	27	53	144	283	518	710	843	816	613	312	104	41	27	80	224	507	1025	1735	2578	3394	4007	4319	4423	4464
60	10	20	69	166	367	560	688	661	464	190	51	17	10	30	99	265	632	1192	1880	2541	3005	3195	3246	3263
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	128	191	333	464	663	797	893	868	715	495	266	161	128	319	652	1116	1779	2576	3469	4337	5052	5547	5813	5974

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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