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: KEISER, AR **COOP ID: 033821**

Climate Division: AR 3 **NWS Call Sign:** **Elevation: 232 Feet** **Lat: 35˚40N** **Lon: 90˚05W**

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	44.9	27.6	36.3	75+	1960	13	43.7	1989	-9+	1985	20	23.2	1977	892	0	.0	.0	10.7	5.1	21.7	.3
Feb	50.9	31.9	41.4	81	1962	13	49.1	1976	-3+	1978	22	27.0	1978	660	0	.0	.0	15.7	3.2	15.1	.1
Mar	60.5	40.8	50.7	85+	1963	30	56.5	1973	8	1960	5	45.3	1996	448	4	.0	.0	25.4	.2	7.3	.0
Apr	70.8	49.1	60.0	91	1965	23	65.3	1981	24	1962	1	53.6	1983	183	32	.0	.1	29.3	.0	.8	.0
May	80.1	58.7	69.4	98	1977	31	74.9	1987	36	1976	4	63.8	1976	46	184	.0	2.9	31.0	.0	.0	.0
Jun	88.7	67.2	78.0	101+	1963	9	81.4	1971	46	1969	3	73.7	1974	0	389	.4	15.0	30.0	.0	.0	.0
Jul	91.9	70.7	81.3	106+	1980	15	85.5	1980	54	1972	6	78.5	1984	0	504	1.3	21.3	31.0	.0	.0	.0
Aug	89.8	67.8	78.8	105+	1986	1	83.9	1983	47	1986	29	73.7	1992	1	428	.7	16.1	31.0	.0	.0	.0
Sep	83.6	60.1	71.9	101	2000	1	77.7	1998	36+	1967	29	66.6	1974	26	231	.1	7.4	30.0	.0	.0	.0
Oct	73.9	48.1	61.0	94	1998	1	68.5	1971	25+	1982	23	55.1	1976	178	54	.0	.5	30.8	.0	1.0	.0
Nov	60.0	39.8	49.9	85	2000	2	56.4	1999	12	1970	24	41.2	1976	456	3	.0	.0	24.0	.1	8.0	.0
Dec	49.3	31.3	40.3	78+	1982	3	48.5	1971	-10	1963	24	29.0	1983	765	0	.0	.0	15.5	2.5	17.8	.2
Ann	70.4	49.4	59.9	106+	Jul 1980	15	85.5	Jul 1980	-10	Dec 1963	24	23.2	Jan 1977	3655	1829	2.5	63.3	304.4	11.1	71.7	.6

\+ 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: 1959-2001

(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	3.69	3.59	3.52	1969	30	9.13	1999	1.08	1986
Feb	3.78	3.56	2.93	1966	10	10.73	1989	1.44	1995
Mar	4.87	4.18	3.75	1963	4	11.10	1997	1.39	1995
Apr	4.90	4.72	4.35	1997	5	11.84	1991	1.73	1992
May	5.57	4.81	4.11	1978	7	13.38	1983	2.50	1994
Jun	4.06	3.76	3.60	1981	6	10.46	1994	.27	1988
Jul	3.56	3.21	4.02	1988	13	9.41	1995	.35	1983
Aug	2.67	2.63	5.35	1978	30	10.28	1978	.14	1983
Sep	3.65	3.58	5.55	1965	11	8.26	1984	1.04	1983
Oct	3.38	3.16	5.22	1999	9	9.16	1990	.46	1971
Nov	4.84	5.19	4.10	1988	19	9.54	1988	.90	1999
Dec	4.55	3.74	4.11	1990	18	13.91	1990	1.22	1976
Ann	49.52	49.50	5.55	Sep 1965	11	13.91	Dec 1990	.14	Aug 1983

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	6.8	2.6	.8
Feb	8.9	5.9	2.4	1.1
Mar	11.9	8.0	3.3	1.1
Apr	9.9	7.2	3.6	1.6
May	10.9	7.6	3.7	1.7
Jun	8.2	5.6	2.9	1.2
Jul	7.8	5.6	2.6	1.0
Aug	6.7	4.4	1.6	.7
Sep	7.4	5.0	2.2	1.1
Oct	7.6	4.8	2.5	.8
Nov	10.3	6.4	3.2	1.3
Dec	10.5	7.2	3.1	1.5
Ann	111.2	74.5	33.7	13.9

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	1.12	1.47	2.00	2.45	2.88	3.34	3.84	4.43	5.19	6.38	7.48
Feb	1.22	1.58	2.11	2.56	2.99	3.44	3.94	4.51	5.26	6.41	7.48
Mar	1.71	2.17	2.83	3.40	3.94	4.49	5.09	5.79	6.69	8.08	9.36
Apr	1.58	2.05	2.73	3.32	3.88	4.46	5.10	5.85	6.81	8.31	9.69
May	2.26	2.77	3.50	4.09	4.65	5.22	5.84	6.55	7.45	8.82	10.07
Jun	.77	1.13	1.73	2.28	2.84	3.44	4.12	4.95	6.05	7.81	9.49
Jul	.76	1.09	1.61	2.09	2.56	3.07	3.64	4.32	5.23	6.67	8.03
Aug	.31	.52	.90	1.27	1.67	2.11	2.62	3.26	4.13	5.56	6.95
Sep	1.01	1.36	1.89	2.34	2.79	3.26	3.78	4.40	5.20	6.46	7.63
Oct	.77	1.08	1.58	2.02	2.47	2.94	3.47	4.10	4.93	6.25	7.50
Nov	1.25	1.71	2.41	3.03	3.64	4.28	5.00	5.85	6.95	8.70	10.33
Dec	1.10	1.53	2.20	2.79	3.37	3.99	4.69	5.51	6.59	8.30	9.91
Ann	37.52	39.91	42.93	45.20	47.20	49.13	51.11	53.28	55.90	59.68	62.92

\+ 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: 1959-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	.9	.0	#	0
Feb	.4	.0	#	0
Mar	.4	.0	#	0
Apr	#	.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	.1	.0	#	0
Dec	.0	#	#	0
Ann	1.8	#	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	4.0	1973	7	4.0	1973	4	1973	7	#+	1996
Feb	5.0	1979	7	5.0	1979	5	1979	7	#+	1979
Mar	3.5	1971	26	7.5	1971	4	1971	26	#+	1978
Apr	#	1971	6	#	1971	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
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	2.0	1971	24	2.0	1971	#	1976	29	#	1976
Dec	.5	1973	15	.5	1973	1	1973	15	#	1973
Ann	5.0	Feb 1979	7	7.5	Mar 1971	5	Feb 1979	7	#+	Jan 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.2	.1	.0	.0
Feb	.3	.3	.1	.1	.0
Mar	.1	.1	.1	.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	.1	.1	.0	.0	.0
Dec	.1	.0	.0	.0	.0
Ann	.9	.7	.3	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.3	.1	.0	.0
Feb	.1	.0	.0	.0
Mar	.1	.1	.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	@	.0	.0	.0
Ann	.5	.2	.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

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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	4/24	4/20	4/17	4/14	4/12	4/09	4/07	4/04	3/30
32	4/13	4/08	4/05	4/02	3/31	3/28	3/25	3/22	3/18
28	3/30	3/24	3/20	3/17	3/14	3/10	3/07	3/03	2/25
24	3/20	3/13	3/08	3/03	2/27	2/23	2/18	2/13	2/06
20	3/07	2/28	2/23	2/19	2/15	2/11	2/07	2/02	1/26
16	2/27	2/18	2/11	2/06	1/31	1/26	1/19	1/10	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	9/30	10/05	10/09	10/12	10/15	10/18	10/22	10/25	10/31
32	10/15	10/21	10/25	10/29	11/01	11/04	11/08	11/12	11/17
28	10/28	11/03	11/08	11/12	11/15	11/19	11/23	11/28	12/04
24	11/07	11/15	11/20	11/25	11/30	12/04	12/09	12/14	12/22
20	11/14	11/24	12/02	12/09	12/15	12/21	12/27	1/04	1/15
16	11/30	12/09	12/15	12/21	12/26	1/01	1/07	1/16	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	203	197	193	189	186	182	179	175	169
32	236	229	223	219	214	210	206	200	193
28	272	263	257	251	246	241	235	229	220
24	304	294	287	281	275	269	263	256	246
20	338	324	314	307	300	293	285	277	265
16	>365	>365	>365	335	325	318	311	303	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

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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	892	660	448	183	46	0	0	1	26	178	456	765	3655
60	738	528	308	89	14	0	0	0	6	90	319	617	2709
57	653	450	234	51	6	0	0	0	2	54	245	530	2225
55	594	400	191	32	3	0	0	0	1	36	202	474	1933
50	453	286	105	7	0	0	0	0	0	10	114	343	1318
32	105	42	3	0	0	0	0	0	0	0	3	55	208

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	236	306	581	838	1161	1379	1527	1451	1195	899	540	314	10427
55	12	20	57	180	451	689	814	738	506	222	49	19	3757
57	9	14	38	139	391	629	752	676	447	178	32	13	3318
60	1	8	19	88	307	539	659	583	361	121	16	7	2709
65	0	0	4	32	184	389	504	428	231	54	3	0	1829
70	0	0	0	7	92	244	349	280	127	18	0	0	1117

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	83	160	350	600	917	1141	1283	1204	957	652	316	128	83	243	593	1193	2110	3251	4534	5738	6695	7347	7663	7791
45	40	88	231	455	762	991	1128	1049	807	499	209	66	40	128	359	814	1576	2567	3695	4744	5551	6050	6259	6325
50	16	45	139	317	607	841	973	894	657	354	123	29	16	61	200	517	1124	1965	2938	3832	4489	4843	4966	4995
55	2	13	69	197	453	691	818	739	509	225	62	7	2	15	84	281	734	1425	2243	2982	3491	3716	3778	3785
60	0	0	30	109	306	542	663	584	367	129	24	0	0	0	30	139	445	987	1650	2234	2601	2730	2754	2754
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	48	96	200	367	598	779	875	828	638	419	186	73	48	144	344	711	1309	2088	2963	3791	4429	4848	5034	5107

(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:
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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