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: DEER FLAT DAM, ID **COOP ID: 102444**

Climate Division: ID 5 **NWS Call Sign:** **Elevation: 2,510 Feet** **Lat: 43˚35N** **Lon: 116˚45W**

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	38.0	24.3	31.2	67	1953	9	39.5	1998	-27	1957	27	16.8	1979	1050	0	.0	.0	2.6	9.0	25.5	1.6
Feb	46.1	29.3	37.7	68+	1986	25	43.3	1995	-20	1989	5	22.2	1989	764	0	.0	.0	10.6	2.6	20.5	.5
Mar	56.8	35.3	46.1	79+	1997	20	50.8	1994	6	1985	7	39.2	1985	588	0	.0	.0	26.0	.1	14.6	.0
Apr	65.1	40.9	53.0	87+	1977	25	59.6	1987	21+	1954	10	46.6	1975	364	4	.0	@	29.4	.0	5.5	.0
May	73.0	47.9	60.5	97	1986	31	65.7	1987	15	1918	14	55.5	1977	176	34	.0	.6	31.0	.0	.5	.0
Jun	80.8	54.0	67.4	99+	1962	25	72.6	1986	31	1917	4	63.6+	1998	53	125	.0	4.4	30.0	.0	.0	.0
Jul	88.2	59.3	73.8	104+	1980	23	78.0	1985	31	1983	15	65.7	1993	9	281	.2	14.2	31.0	.0	@	.0
Aug	88.0	57.9	73.0	103	1961	4	77.2	1971	35	1925	24	68.1	1993	10	256	.2	13.3	31.0	.0	.0	.0
Sep	78.9	50.0	64.5	101	1924	5	69.9	1990	22	1925	18	56.8	1985	103	88	.0	1.8	30.0	.0	.5	.0
Oct	67.1	40.5	53.8	98+	1922	1	60.6	1988	17	1971	29	49.0	1984	350	2	.0	.1	30.2	.0	6.5	.0
Nov	50.2	32.3	41.3	75	1949	27	46.0+	1983	-5	1985	26	30.2	1985	712	0	.0	.0	15.3	.9	17.7	.1
Dec	39.0	24.8	31.9	67+	1964	22	39.3	1973	-22+	1990	23	13.4	1985	1026	0	.0	.0	3.3	6.8	26.3	1.7
Ann	64.3	41.4	52.9	104+	Jul 1980	23	78.0	Jul 1985	-27	Jan 1957	27	13.4	Dec 1985	5205	790	.4	34.4	270.4	19.4	117.6	3.9

\+ 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: 1916-2001

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

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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	1.13	.98	.84+	1969	20	2.97	1997	.16	1985
Feb	.93	.90	1.24	2000	23	2.81	1986	.12	1997
Mar	1.21	1.03	.96	1981	20	3.52	1993	.20	1997
Apr	1.04	.90	1.13	1973	14	3.33	1978	.24	1977
May	1.05	.95	1.40	1958	12	3.96	1998	.11	1992
Jun	.75	.78	1.12	1967	6	2.39	1993	.06	1989
Jul	.37	.24	.84	1960	31	1.12	1983	.00+	1999
Aug	.35	.18	1.47	1979	13	1.80	1979	.00+	2000
Sep	.54	.38	1.37	1959	14	2.61	1986	.00+	1999
Oct	.62	.50	1.20	1982	29	2.12	2000	.00+	1988
Nov	1.05	.82	1.08	1958	13	2.22	1988	.12	1999
Dec	1.11	1.01	.95	1955	23	2.86	1981	.00	1989
Ann	10.15	9.66	1.47	Aug 1979	13	3.96	May 1998	.00+	Aug 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.7	4.1	.3	.0
Feb	7.8	3.2	.1	@
Mar	8.9	4.1	.3	.0
Apr	8.0	3.3	.3	@
May	6.8	3.4	.3	.1
Jun	5.6	2.4	.3	.0
Jul	2.8	1.2	.1	.0
Aug	2.9	1.0	.1	@
Sep	3.6	1.8	.2	@
Oct	4.3	2.5	.2	@
Nov	8.8	3.6	.2	.0
Dec	9.3	3.9	.2	.0
Ann	78.5	34.5	2.6	.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	.31	.42	.58	.72	.86	1.01	1.17	1.36	1.61	2.01	2.37
Feb	.13	.21	.35	.47	.61	.75	.92	1.13	1.41	1.87	2.30
Mar	.21	.31	.49	.65	.82	1.01	1.22	1.48	1.82	2.37	2.90
Apr	.20	.29	.44	.58	.73	.88	1.05	1.26	1.54	1.99	2.41
May	.17	.26	.41	.56	.71	.87	1.05	1.28	1.58	2.06	2.53
Jun	.11	.17	.27	.38	.49	.61	.75	.92	1.14	1.52	1.88
Jul	.00	.00	.03	.09	.17	.25	.34	.47	.63	.91	1.20
Aug	.00	.00	.02	.07	.12	.20	.29	.41	.59	.90	1.21
Sep	.00	.00	.00	.09	.20	.32	.47	.66	.93	1.40	1.85
Oct	.00	.00	.15	.26	.37	.48	.62	.79	1.01	1.37	1.72
Nov	.21	.30	.46	.60	.74	.90	1.07	1.28	1.56	2.00	2.43
Dec	.09	.21	.40	.56	.72	.91	1.11	1.37	1.71	2.26	2.78
Ann	6.32	7.02	7.94	8.65	9.29	9.92	10.57	11.31	12.20	13.52	14.68

\+ 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: 1916-2001
(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	4.3	4.5	1	#
Feb	1.1	.2	#	0
Mar	.6	.0	#	0
Apr	.1	.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
Nov	1.1	.0	#	0
Dec	5.0	3.5	#	#
Ann	12.2	8.2	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	6.0	1977	3	9.0	1976	8	1982	2	5	1984
Feb	4.0	1976	19	4.0	1976	6+	1984	5	3	1984
Mar	4.0	1976	1	4.0	1976	3	1976	1	#+	1976
Apr	1.0	1973	19	1.0	1973	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	#	1975	23	#+	1975	0	0	0	0	0
Nov	2.5	1973	24	5.1	1973	3	1973	26	#+	1980
Dec	6.0	1981	29	20.5	1981	8	1983	29	4	1983
Ann	6.0+	Dec 1981	29	20.5	Dec 1981	8+	Dec 1983	29	5	Jan 1984

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.8	2.2	.4	.2	.0
Feb	1.1	.6	.2	.0	.0
Mar	.4	.2	.1	.0	.0
Apr	.1	.1	.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	.7	.7	.0	.0	.0
Dec	2.4	1.5	.5	.1	.0
Ann	7.5	5.3	1.2	.3	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	6.2	3.4	1.9	.0
Feb	2.0	.9	.3	.0
Mar	.2	@	.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	.6	.1	.0	.0
Dec	3.3	1.4	.0	.0
Ann	12.3	5.8	2.2	.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

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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	6/09	6/01	5/26	5/20	5/15	5/11	5/05	4/29	4/21
32	5/25	5/16	5/09	5/03	4/28	4/22	4/16	4/09	3/31
28	5/03	4/26	4/20	4/15	4/11	4/07	4/02	3/28	3/20
24	4/12	4/03	3/28	3/23	3/18	3/14	3/09	3/03	2/22
20	3/24	3/15	3/09	3/04	2/27	2/22	2/17	2/11	2/02
16	3/07	2/25	2/18	2/12	2/06	1/31	1/25	1/17	1/06

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	9/14	9/19	9/23	9/26	9/29	10/02	10/05	10/09	10/14
32	9/24	9/29	10/04	10/07	10/10	10/14	10/17	10/21	10/27
28	10/06	10/12	10/16	10/19	10/22	10/25	10/29	11/02	11/07
24	10/19	10/25	10/30	11/03	11/06	11/10	11/14	11/18	11/24
20	10/26	11/02	11/07	11/11	11/16	11/20	11/24	11/29	12/06
16	11/12	11/20	11/25	11/30	12/04	12/08	12/13	12/20	1/01

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	168	157	149	142	136	130	123	115	104
32	201	189	180	172	165	158	150	142	129
28	225	214	206	200	193	187	181	173	162
24	267	255	246	239	232	225	218	209	197
20	296	284	275	268	261	254	246	237	225
16	358	334	321	311	302	293	283	272	257

***** 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	1050	764	588	364	176	53	9	10	103	350	712	1026	5205
60	895	624	433	230	84	14	0	1	41	209	562	871	3964
57	804	546	345	162	46	5	0	0	19	139	480	779	3325
55	749	493	288	124	28	2	0	0	11	99	424	725	2943
50	604	366	163	51	6	0	0	0	1	36	295	579	2101
32	201	68	3	0	0	0	0	0	0	0	38	182	492

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	174	228	438	630	881	1062	1295	1269	975	676	317	179	8124
55	9	9	10	64	197	374	582	556	296	62	12	9	2180
57	2	6	5	42	152	317	520	494	244	39	8	1	1830
60	0	0	0	20	97	237	428	402	176	17	0	0	1377
65	0	0	0	4	34	125	281	256	88	2	0	0	790
70	0	0	0	0	8	51	155	132	34	0	0	0	380

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	12	55	182	362	607	803	1023	995	704	395	98	23	12	67	249	611	1218	2021	3044	4039	4743	5138	5236	5259
45	0	12	79	227	453	653	868	840	554	254	32	5	0	12	91	318	771	1424	2292	3132	3686	3940	3972	3977
50	0	0	27	120	309	503	713	685	405	133	9	0	0	0	27	147	456	959	1672	2357	2762	2895	2904	2904
55	0	0	2	52	178	355	558	530	270	53	0	0	0	0	2	54	232	587	1145	1675	1945	1998	1998	1998
60	0	0	0	16	90	220	404	377	152	15	0	0	0	0	0	16	106	326	730	1107	1259	1274	1274	1274
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	4	30	123	230	378	509	661	639	457	263	50	7	4	34	157	387	765	1274	1935	2574	3031	3294	3344	3351

(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