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: DWORSHAK FISH HATCHERY, ID **COOP ID: 102845**

Climate Division: ID 3 **NWS Call Sign:** **Elevation: 995 Feet** **Lat: 46˚30N** **Lon: 116˚19W**

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	38.8	26.2	32.5	61	1974	16	38.8	1994	-11	1979	2	18.4	1979	1006	0	.0	.0	1.8	5.1	22.9	.5
Feb	45.9	29.0	37.5	68	1968	29	43.5	1992	-9	1989	4	28.4	1989	772	0	.0	.0	9.8	1.6	18.8	.3
Mar	55.2	33.8	44.5	82	1994	31	50.8	1992	12	1989	4	39.3	1976	636	0	.0	.0	23.5	@	12.8	.0
Apr	63.8	39.1	51.5	95+	1987	28	57.1	1987	27+	1977	19	44.6	1975	409	1	.0	.2	28.7	.0	4.0	.0
May	72.2	45.6	58.9	104	1993	13	63.9	1993	30+	1988	1	54.8	1999	210	20	.1	1.8	30.9	.0	.4	.0
Jun	79.3	51.5	65.4	105	1992	25	71.2	1992	35	1984	1	61.7	1976	76	89	.4	5.4	30.0	.0	.0	.0
Jul	88.6	56.1	72.4	111	1967	13	78.5	1985	41+	2000	4	66.1	1993	11	240	3.3	16.2	31.0	.0	.0	.0
Aug	89.7	55.4	72.6	109	1969	24	77.6	1971	39+	2001	21	66.8	1980	17	252	4.9	17.5	31.0	.0	.0	.0
Sep	79.5	47.6	63.6	107	1967	1	71.6	1990	28+	1985	30	58.0	1985	134	90	.5	5.8	30.0	.0	.2	.0
Oct	64.4	38.8	51.6	90	1987	1	58.0	1988	15	1971	29	47.3	1985	418	2	.0	@	29.8	.0	4.7	.0
Nov	47.0	32.6	39.8	69+	1999	14	43.9	1999	1+	1985	24	30.8	1985	755	0	.0	.0	11.9	.8	12.7	.0
Dec	38.8	27.3	33.1	61	1980	4	37.8	1973	-15+	1968	31	25.7	1983	990	0	.0	.0	1.2	3.8	22.9	.6
Ann	63.6	40.3	52.0	111	Jul 1967	13	78.5	Jul 1985	-15+	Dec 1968	31	18.4	Jan 1979	5434	694	9.2	46.9	259.6	11.3	99.4	1.4

\+ 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: 1966-2001

(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	2.87	2.87	1.58	1970	26	6.36	1975	.50	1985
Feb	2.45	2.16	1.55	1981	12	5.69	1972	.85	1993
Mar	2.41	2.22	.91	1972	3	4.59	1972	.90	1992
Apr	2.35	2.22	1.85	1976	18	5.71	1996	.32	1977
May	2.53	2.51	1.99	1985	30	5.09	1990	.86	1982
Jun	1.69	1.40	1.90	1970	14	3.97	1971	.45	1977
Jul	1.20	1.02	1.53	1997	1	3.42	1993	.00	1984
Aug	.92	.69	1.30	1978	13	2.62	1977	.08+	1994
Sep	1.32	1.26	1.12	1984	1	3.61	1986	.01	1987
Oct	1.67	1.21	1.94	2000	1	4.27	1995	.00	1987
Nov	3.24	3.20	1.75	1996	19	6.63	1973	.93	1976
Dec	3.02	3.02	2.21	1977	2	6.10	1977	.54	1985
Ann	25.67	25.51	2.21	Dec 1977	2	6.63	Nov 1973	.00+	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	15.3	8.4	1.3	.1
Feb	13.3	7.2	1.0	.1
Mar	14.4	8.4	.7	.0
Apr	13.3	7.0	.8	.1
May	12.1	6.5	1.1	.3
Jun	9.6	5.1	.6	@
Jul	6.9	3.4	.5	.1
Aug	5.5	2.8	.3	@
Sep	6.8	3.8	.8	.1
Oct	9.4	4.7	.7	.1
Nov	15.8	9.5	1.5	.2
Dec	15.3	9.0	1.2	.1
Ann	137.7	75.8	10.5	1.2

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	.94	1.21	1.61	1.95	2.28	2.62	2.99	3.42	3.98	4.85	5.65
Feb	.85	1.08	1.42	1.70	1.97	2.25	2.55	2.91	3.36	4.06	4.71
Mar	1.04	1.26	1.56	1.81	2.04	2.28	2.53	2.82	3.19	3.74	4.25
Apr	.75	.98	1.31	1.59	1.86	2.14	2.45	2.81	3.27	3.99	4.66
May	.96	1.19	1.53	1.81	2.08	2.35	2.64	2.98	3.42	4.09	4.70
Jun	.54	.70	.94	1.14	1.34	1.54	1.76	2.02	2.36	2.89	3.37
Jul	.03	.11	.27	.43	.63	.85	1.12	1.46	1.94	2.74	3.55
Aug	.09	.16	.29	.42	.55	.71	.90	1.13	1.44	1.96	2.47
Sep	.05	.12	.26	.44	.64	.88	1.19	1.58	2.14	3.10	4.07
Oct	.09	.25	.51	.76	1.02	1.31	1.65	2.06	2.63	3.57	4.48
Nov	1.15	1.45	1.90	2.27	2.63	2.99	3.39	3.85	4.45	5.36	6.20
Dec	.82	1.11	1.54	1.92	2.30	2.69	3.12	3.64	4.31	5.35	6.33
Ann	18.53	19.92	21.70	23.04	24.23	25.39	26.57	27.88	29.47	31.77	33.75

\+ 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: 1966-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	8.7	6.5	2	#	10.0	1996	28	25.5	1996	12	1980	10	8	1991	3.1	2.2	.7	.3	.1	-9.9	-9.9	-9.9	-9.9
Feb	2.6	.0	#	0	5.5	1975	7	13.5	1975	5	1972	1	1	1972	1.2	.8	.3	.1	.0	1.0	.7	.1	.0
Mar	.4	.0	#	0	4.0	1989	2	5.5	1989	1+	1991	6	#+	1991	.3	.2	@	.0	.0	.1	.0	.0	.0
Apr	#	.0	#	0	#	1975	1	#	1975	#	1999	4	#	1999	.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	#	1984	18	#	1984	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.4	.0	#	0	5.0	1992	28	5.0	1992	6	1978	28	1	1973	.1	.1	.1	.1	.0	.0	.0	.0	.0
Dec	5.1	3.2	#	0	8.0	1996	27	21.3	1996	12	1971	16	4	1971	2.5	1.6	.6	.3	.0	-9.9	-9.9	-9.9	-9.9
Ann	17.2	9.7	N/A	N/A	10.0	Jan 1996	28	25.5	Jan 1996	12+	Jan 1980	10	8	Jan 1991	7.2	4.9	1.7	.8	.1	-9.9	-9.9	-9.9	-9.9

+ 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	5/30	5/24	5/19	5/15	5/11	5/07	5/03	4/29	4/22
32	5/05	4/29	4/26	4/22	4/19	4/16	4/13	4/09	4/03
28	4/12	4/05	3/30	3/26	3/21	3/17	3/12	3/06	2/27
24	3/18	3/10	3/04	2/26	2/21	2/16	2/11	2/05	1/27
20	3/13	2/28	2/19	2/11	2/04	1/27	1/19	1/09	12/25
16	2/23	2/12	2/05	1/29	1/22	1/16	1/08	12/28	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	9/16	9/22	9/26	9/29	10/03	10/06	10/10	10/14	10/20
32	9/28	10/04	10/08	10/12	10/15	10/19	10/23	10/27	11/02
28	10/15	10/22	10/28	11/02	11/06	11/11	11/16	11/21	11/29
24	10/28	11/06	11/13	11/18	11/24	11/29	12/05	12/11	12/20
20	11/06	11/16	11/23	11/29	12/05	12/11	12/17	12/25	1/06
16	11/16	11/28	12/06	12/14	12/21	12/29	1/07	1/22	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	172	162	155	149	144	139	133	126	116
32	203	195	189	183	179	174	168	162	154
28	263	251	243	236	230	223	216	208	196
24	311	299	290	282	275	267	259	250	238
20	>365	332	319	309	300	292	283	273	259
16	>365	>365	358	339	328	319	311	301	289

***** 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	1006	772	636	409	210	76	11	17	134	418	755	990	5434
60	851	632	481	269	105	23	1	3	64	271	605	835	4140
57	758	548	389	194	60	9	0	1	36	192	515	742	3444
55	696	492	329	151	38	4	0	0	23	146	456	680	3015
50	546	358	193	68	9	0	0	0	6	59	317	525	2081
32	127	38	2	0	0	0	0	0	0	0	25	100	292

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	143	190	389	582	833	1003	1252	1258	946	607	260	134	7597
55	0	0	3	43	158	317	539	545	279	40	1	0	1925
57	0	0	1	26	118	262	477	484	232	24	0	0	1624
60	0	0	0	11	70	186	385	393	170	10	0	0	1225
65	0	0	0	1	20	89	240	252	90	2	0	0	694
70	0	0	0	0	3	30	122	136	39	0	0	0	330

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	3	43	167	354	591	769	1006	1018	712	372	80	6	3	46	213	567	1158	1927	2933	3951	4663	5035	5115	5121
45	0	7	63	214	437	619	851	863	562	224	21	0	0	7	70	284	721	1340	2191	3054	3616	3840	3861	3861
50	0	0	17	110	291	469	696	708	413	110	2	0	0	0	17	127	418	887	1583	2291	2704	2814	2816	2816
55	0	0	0	48	167	326	541	553	273	40	0	0	0	0	0	48	215	541	1082	1635	1908	1948	1948	1948
60	0	0	0	14	84	193	387	402	157	11	0	0	0	0	0	14	98	291	678	1080	1237	1248	1248	1248
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	22	108	218	355	468	619	620	442	237	32	0	0	22	130	348	703	1171	1790	2410	2852	3089	3121	3121

(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