

Climatology of the United States

No. 20

1971-2000

Station: WINCHESTER, ID

COOP ID: 109846

Climate Division: ID 2

NWS Call Sign:

Elevation: 3,950 Feet Lat: 46° 14N

Lon: 116° 37W

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	35.2	19.7	27.5	58	1971	31	35.8	1994	-26	1979	1	14.0	1979	1164	0	.0	.0	1.1	10.8	28.0	2.8
Feb	39.7	22.4	31.1	67+	1988	27	39.7	1991	-28	1989	4	19.1	1989	951	0	.0	.0	3.7	5.3	24.9	1.5
Mar	44.7	26.1	35.4	70+	1986	27	42.9	1986	-10	1976	4	28.6	1976	919	0	.0	.0	8.3	1.5	25.5	.3
Apr	52.2	31.0	41.6	84	1987	27	48.1	1987	7	1968	13	34.7	1975	702	0	.0	.0	16.2	@	18.7	.0
May	59.6	36.7	48.2	86+	1988	22	53.1	1993	19	1973	1	43.9	1977	522	0	.0	.1	25.8	.0	8.4	.0
Jun	67.3	42.2	54.8	90+	1973	22	59.8	1992	23	1994	8	50.7	1991	312	3	.0	@	29.4	.0	1.7	.0
Jul	76.1	45.9	61.0	96	1967	12	66.7	1998	28+	1994	4	53.2	1993	164	39	.0	1.1	30.9	.0	.6	.0
Aug	77.8	45.6	61.7	98	1969	23	66.0	1986	25+	1980	29	56.6	1980	153	50	.0	2.3	31.0	.0	.5	.0
Sep	68.6	39.0	53.8	95	1988	3	61.2	1990	17+	1985	29	47.6	1971	348	12	.0	.3	28.9	.0	5.4	.0
Oct	56.7	32.5	44.6	88	1987	2	51.3	1988	-10	1971	29	39.7	1971	633	0	.0	.0	22.4	.3	16.2	.0
Nov	41.4	25.9	33.7	67+	1999	14	41.6	1999	-21	1985	23	23.2	1985	940	0	.0	.0	5.7	4.4	24.0	.5
Dec	34.9	19.7	27.3	60	1980	16	34.0	1980	-40	1968	30	18.5	1978	1168	0	.0	.0	.9	10.6	28.2	2.2
Ann	54.5	32.2	43.4	98	Aug 1969	23	66.7	Jul 1998	-40	Dec 1968	30	14.0	Jan 1979	7976	104	.0	3.8	204.3	32.9	182.1	7.3

+ 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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1965-2001

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

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No. 20

1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: WINCHESTER, ID

COOP ID: 109846

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NWS Call Sign:

Elevation: 3,950 Feet Lat: 46°14N

Lon: 116°37W

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	1.94	1.93	1.08	1975	25	4.76	1975	.55	1992	13.8	6.4	.4	@	.58	.76	1.04	1.28	1.51	1.75	2.02	2.33	2.74	3.37	3.96
Feb	1.69	1.62	1.45	1986	23	4.03	1986	.47	1998	12.4	5.9	.4	@	.52	.68	.92	1.13	1.33	1.53	1.76	2.03	2.37	2.91	3.41
Mar	2.46	2.52	1.06	1972	18	4.37	1972	.74	1994	15.2	8.3	.8	@	1.07	1.29	1.60	1.85	2.09	2.33	2.58	2.88	3.25	3.82	4.33
Apr	2.76	2.34	1.30	1978	27	5.02	1996	.79	1977	14.2	8.0	1.2	.1	1.11	1.36	1.72	2.02	2.30	2.58	2.89	3.25	3.70	4.39	5.01
May	3.18	3.07	1.68	1990	24	5.36	1980	1.20	1992	14.0	8.3	1.8	.3	1.60	1.87	2.23	2.52	2.78	3.05	3.33	3.65	4.05	4.65	5.19
Jun	2.18	1.92	1.54	1995	5	4.43	1981	.87	1986	10.9	6.4	.9	@	.90	1.10	1.38	1.61	1.83	2.05	2.28	2.55	2.90	3.42	3.90
Jul	1.45	1.27	1.20	1982	1	3.91	1993	.06	2000	7.2	3.9	.9	@	.14	.24	.44	.64	.86	1.10	1.40	1.76	2.26	3.10	3.92
Aug	1.24	1.12	2.12	1993	15	3.66	1975	.02	1974	5.9	3.0	.7	.1	.07	.14	.29	.45	.64	.87	1.14	1.49	1.99	2.83	3.68
Sep	1.44	1.44	1.38	2000	30	3.84	2000	.07	1999	6.9	4.2	.6	.1	.11	.20	.39	.59	.81	1.06	1.36	1.75	2.28	3.17	4.06
Oct	1.87	1.87	1.25+	1975	21	5.23	1975	.00	1987	9.5	5.1	.9	.2	.28	.52	.84	1.10	1.36	1.63	1.94	2.30	2.77	3.52	4.22
Nov	2.51	2.48	1.40	1999	25	5.19	1986	.78	1976	15.1	8.3	.8	.1	.87	1.10	1.45	1.74	2.02	2.31	2.62	2.98	3.45	4.18	4.84
Dec	1.99	1.69	.98	1967	25	5.36	1975	.50	1985	14.1	6.2	.8	.0	.51	.70	.99	1.25	1.50	1.76	2.06	2.40	2.86	3.58	4.25
Ann	24.71	25.43	2.12	Aug 1993	15	5.36+	May 1980	.00	Oct 1987	139.2	74.0	10.2	.9	17.80	19.15	20.86	22.16	23.32	24.43	25.58	26.85	28.39	30.61	32.53

+ 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: 1965-2001

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

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Station: WINCHESTER, ID

COOP ID: 109846

Climate Division: ID 2

NWS Call Sign:

Elevation: 3,950 Feet

Lat: 46° 14N

Lon: 116° 37W

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	19.8	17.8	8	6	10.0	1987	14	48.7	1996	35	1979	31	29	1979	9.3	6.4	2.2	.8	@	21.6	17.8	13.7	9.1
Feb	12.4	11.5	7	4	15.0	1994	24	31.0	1972	35	1979	3	22	1979	6.7	4.7	1.5	.4	.1	15.8	12.4	9.7	7.3
Mar	15.3	14.3	3	2	14.0	1980	30	36.0	1980	22	1985	25	17	1985	7.2	5.2	1.8	.9	@	12.4	8.7	6.4	2.7
Apr	8.7	6.0	1	#	8.0	1974	12	31.0	1975	14	1985	1	4	1976	4.6	3.3	1.0	.4	.0	3.2	1.6	.8	.1
May	2.1	1.0	#	0	5.0	1971	17	7.1	1975	3	1975	3	#+	1999	1.5	1.0	.2	@	.0	.2	@	.0	.0
Jun	.0	.0	#	0	1.0	1976	13	1.0	1976	#+	1996	18	#+	1996	@	@	.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	.1	.0	#	0	1.5	1972	24	2.0	1972	#	1972	25	#	1972	.2	.1	.0	.0	.0	.0	.0	.0	.0
Oct	2.1	.5	#	0	8.0	1971	27	12.0	1971	7	1971	31	1	1971	1.3	.6	.2	.1	.0	.7	.3	.2	.0
Nov	14.5	14.8	2	2	12.5	1996	18	40.5	1973	17	1973	26	8	1973	6.8	5.0	1.9	.8	.1	8.8	5.9	3.3	1.3
Dec	16.4	12.9	5	3	12.0	1978	4	47.5	1971	34	1971	15	22	1971	8.9	5.8	2.2	.9	.2	20.6	14.9	11.3	5.3
Ann	91.4	78.8	N/A	N/A	15.0	Feb 1994	24	48.7	Jan 1996	35+	Feb 1979	3	29	Jan 1979	46.5	32.1	11.0	4.3	.4	83.3	61.6	45.4	25.8

+ 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:

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Lon: 116° 37W

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	7/24	7/18	7/14	7/10	7/07	7/03	6/29	6/25	6/19
32	7/15	7/05	6/28	6/23	6/17	6/12	6/06	5/30	5/21
28	6/10	6/02	5/27	5/22	5/17	5/12	5/07	5/01	4/23
24	5/17	5/09	5/03	4/27	4/22	4/17	4/12	4/06	3/29
20	4/25	4/18	4/12	4/08	4/04	3/31	3/26	3/21	3/14
16	4/07	3/31	3/25	3/20	3/16	3/12	3/07	3/02	2/22
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	8/06	8/12	8/17	8/22	8/26	8/29	9/03	9/08	9/14
32	8/18	8/26	8/31	9/04	9/09	9/13	9/17	9/22	9/30
28	9/04	9/09	9/13	9/16	9/19	9/22	9/25	9/29	10/04
24	9/19	9/25	9/30	10/04	10/08	10/12	10/16	10/21	10/27
20	9/30	10/08	10/15	10/20	10/25	10/30	11/04	11/10	11/19
16	10/22	10/30	11/06	11/11	11/16	11/21	11/26	12/02	12/11
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	80	70	62	55	49	43	37	29	19
32	122	108	99	90	83	75	67	57	43
28	154	144	136	130	124	118	112	105	95
24	199	189	181	174	168	162	155	147	136
20	241	228	219	211	203	196	188	179	166
16	280	268	259	251	244	237	229	220	208

* 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:

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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	1164	951	919	702	522	312	164	153	348	633	940	1168	7976
60	1009	811	764	552	368	179	76	71	224	478	790	1013	6335
57	916	727	671	462	281	116	39	37	162	387	700	920	5418
55	854	671	609	405	226	81	23	23	127	327	640	858	4844
50	700	531	460	268	114	24	5	5	58	192	498	703	3558
32	235	138	71	13	0	0	0	0	0	3	113	218	791

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	94	111	175	301	501	682	899	920	654	393	163	74	4967
55	0	0	0	3	14	73	209	230	91	4	0	0	624
57	0	0	0	0	7	47	163	182	66	2	0	0	467
60	0	0	0	0	1	21	107	123	38	0	0	0	290
65	0	0	0	0	0	3	39	50	12	0	0	0	104
70	0	0	0	0	0	0	10	14	3	0	0	0	27

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	1	10	30	115	273	445	655	682	422	187	33	0	1	11	41	156	429	874	1529	2211	2633	2820	2853	2853
45	0	1	5	50	157	299	500	528	282	94	11	0	0	1	6	56	213	512	1012	1540	1822	1916	1927	1927
50	0	0	0	17	75	172	345	374	165	38	0	0	0	0	0	17	92	264	609	983	1148	1186	1186	1186
55	0	0	0	1	32	81	211	229	77	14	0	0	0	0	0	1	33	114	325	554	631	645	645	645
60	0	0	0	0	9	29	100	117	27	1	0	0	0	0	0	0	9	38	138	255	282	283	283	283
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	6	27	77	172	265	418	442	286	132	16	0	0	6	33	110	282	547	965	1407	1693	1825	1841	1841

(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