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: FRANKLIN 2 NE, WV **COOP ID: 463215**

Climate Division: WV 6 **NWS Call Sign:** **Elevation: 1,900 Feet** **Lat: 38˚41N** **Lon: 79˚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	43.3	20.5	31.9	79	1950	26	42.2	1974	-20	1994	19	20.0	1977	1026	0	.0	.0	8.6	5.9	27.1	1.8
Feb	47.0	22.7	34.9	75+	1951	26	43.2	1990	-13	1967	8	23.6	1978	844	0	.0	.0	10.7	3.9	23.4	.8
Mar	55.9	29.4	42.7	87+	1998	27	49.8	1973	-11	1960	8	37.3	1993	693	0	.0	.0	20.7	.7	20.3	.1
Apr	65.7	37.0	51.4	91	1960	23	58.2	1994	11	1985	10	47.1	1975	410	0	.0	.0	27.2	.0	9.8	.0
May	73.9	46.1	60.0	95	1996	19	66.6	1991	24	1966	11	55.9	1997	180	25	.0	.2	30.9	.0	2.1	.0
Jun	80.4	53.9	67.2	95+	1952	29	70.7	1994	29	1977	8	63.4	1974	41	105	.0	1.3	30.0	.0	.1	.0
Jul	84.0	58.2	71.1	101	1988	16	75.5	1999	34	1988	1	68.1	1984	6	193	@	4.3	31.0	.0	.0	.0
Aug	82.6	56.8	69.7	98+	1953	30	74.1	1995	33	1982	29	65.7	1976	16	161	.0	3.3	31.0	.0	.0	.0
Sep	76.7	50.3	63.5	99+	1953	1	68.6	1998	24	1963	24	60.1	1984	96	51	.0	.8	29.9	.0	.9	.0
Oct	67.4	38.9	53.2	91	1951	5	59.6	1971	14+	1962	27	47.1	1988	375	8	.0	.0	29.8	.0	8.8	.0
Nov	56.2	31.3	43.8	84	1950	1	50.3	1985	5+	1958	30	36.6	1976	639	0	.0	.0	20.3	.3	16.9	.0
Dec	46.7	24.1	35.4	77	2001	5	43.9	1971	-16	1989	23	23.6	1989	917	0	.0	.0	11.8	3.4	24.8	.7
Ann	65.0	39.1	52.1	101	Jul 1988	16	75.5	Jul 1999	-20	Jan 1994	19	20.0	Jan 1977	5243	543	@	9.9	281.9	14.2	134.2	3.4

\+ 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: 1948-2001

(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	2.45	2.00	2.00	1987	25	6.38	1996	.39	1981
Feb	1.93	1.80	2.05	1984	14	4.57	1994	.43+	1995
Mar	2.96	2.79	2.20	1967	7	5.79	1994	.58	1981
Apr	2.66	2.31	2.21	1983	24	5.66	1980	.76	1976
May	3.78	3.73	2.05	1954	27	7.71	1996	.90	1977
Jun	3.21	2.84	5.00	1949	18	7.07	1995	.80	1999
Jul	4.04	3.90	2.88	1954	15	8.35	1978	.75	1998
Aug	3.54	3.16	2.80+	1955	18	7.43	1996	1.42	1992
Sep	3.15	2.71	4.80	1996	6	9.25	1996	.02	1985
Oct	2.75	2.37	5.28	1954	16	8.56	1976	.04	2000
Nov	2.74	2.51	7.55	1985	4	11.51	1985	.65	1981
Dec	2.12	1.87	1.93	1967	29	4.45	1983	.37	1980
Ann	35.33	33.78	7.55	Nov 1985	4	11.51	Nov 1985	.02	Sep 1985

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.0	5.5	1.4	.4
Feb	7.6	4.5	1.1	.3
Mar	9.0	6.6	2.0	.5
Apr	9.5	5.8	1.8	.5
May	11.7	7.7	2.4	.9
Jun	10.0	6.7	1.9	.6
Jul	11.1	7.7	2.8	1.0
Aug	10.0	6.7	2.4	.9
Sep	8.7	5.6	2.4	.7
Oct	7.4	4.4	1.7	.6
Nov	8.1	5.2	1.7	.4
Dec	7.5	4.8	1.4	.3
Ann	108.6	71.2	23.0	7.1

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	.47	.69	1.05	1.38	1.72	2.08	2.49	2.98	3.64	4.69	5.69
Feb	.42	.60	.88	1.14	1.39	1.67	1.97	2.34	2.83	3.60	4.33
Mar	.90	1.18	1.60	1.96	2.31	2.68	3.08	3.55	4.15	5.10	5.98
Apr	.78	1.04	1.42	1.75	2.07	2.40	2.77	3.20	3.76	4.64	5.45
May	1.45	1.81	2.31	2.72	3.12	3.52	3.95	4.46	5.10	6.08	6.98
Jun	.85	1.16	1.62	2.03	2.43	2.85	3.32	3.88	4.60	5.74	6.81
Jul	1.12	1.50	2.08	2.59	3.09	3.61	4.19	4.87	5.76	7.15	8.45
Aug	1.36	1.69	2.16	2.55	2.92	3.30	3.70	4.18	4.78	5.70	6.55
Sep	.33	.57	1.00	1.44	1.91	2.44	3.07	3.85	4.91	6.67	8.39
Oct	.23	.42	.79	1.17	1.59	2.06	2.63	3.35	4.34	5.99	7.61
Nov	.67	.93	1.33	1.68	2.04	2.41	2.82	3.32	3.96	4.99	5.95
Dec	.56	.76	1.06	1.33	1.60	1.88	2.19	2.55	3.03	3.79	4.49
Ann	25.16	27.13	29.65	31.57	33.27	34.91	36.61	38.49	40.76	44.06	46.92

\+ 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: 1948-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

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	6.4	5.7	#	0	21.0	1996	7	21.0	1996	1	1979	30	#	1979	2.3	1.9	.9	.5	.1	-9.9	-9.9	-9.9	-9.9
Feb	7.8	6.5	#	0	13.0	1983	11	19.9	1979	2	2000	12	#	2000	2.4	1.9	1.0	.4	.1	-9.9	-9.9	-9.9	-9.9
Mar	4.0	1.4	0	0	9.0	1980	14	25.0	1980	0	0	0	0	0	1.6	1.1	.4	.2	.0	-9.9	-9.9	-9.9	-9.9
Apr	.6	.0	0	0	12.0	1987	4	12.0	1987	0	0	0	0	0	.2	.1	.1	.1	@	-9.9	-9.9	-9.9	-9.9
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	-9.9	-9.9	-9.9	-9.9
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	-9.9	-9.9	-9.9	-9.9
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	-9.9	-9.9	-9.9	-9.9
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	-9.9	-9.9	-9.9	-9.9
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	-9.9	-9.9	-9.9	-9.9
Oct	.3	.0	0	0	6.0	1979	10	6.0	1979	0	0	0	0	0	.1	.1	@	@	.0	-9.9	-9.9	-9.9	-9.9
Nov	1.8	.0	#	0	9.5	1971	25	10.8	1995	#	1974	25	#	1974	.7	.6	.3	.1	.0	-9.9	-9.9	-9.9	-9.9
Dec	4.7	1.6	#	0	21.0	1992	10	21.0	1992	4	2000	19	1	2000	1.8	1.2	.6	.3	.1	-9.9	-9.9	-9.9	-9.9
Ann	25.6	15.2	N/A	N/A	21.0+	Jan 1996	7	25.0	Mar 1980	4	Dec 2000	19	1	Dec 2000	9.1	6.9	3.3	1.6	.3	-9.9	-9.9	-9.9	-9.9

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	6/12	6/05	5/31	5/27	5/23	5/19	5/15	5/10	5/03
32	5/28	5/22	5/19	5/15	5/12	5/09	5/06	5/02	4/27
28	5/12	5/08	5/05	5/02	4/29	4/27	4/24	4/21	4/16
24	4/24	4/20	4/17	4/15	4/12	4/10	4/07	4/04	3/31
20	4/17	4/11	4/07	4/03	3/31	3/28	3/24	3/20	3/15
16	3/31	3/26	3/22	3/18	3/15	3/12	3/09	3/05	2/27

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	9/06	9/12	9/16	9/19	9/22	9/25	9/28	10/02	10/07
32	9/18	9/22	9/25	9/28	9/30	10/02	10/05	10/08	10/12
28	9/27	10/02	10/05	10/08	10/11	10/13	10/16	10/20	10/24
24	10/10	10/15	10/19	10/21	10/24	10/27	10/30	11/02	11/07
20	10/15	10/22	10/27	10/31	11/04	11/08	11/12	11/18	11/24
16	11/02	11/09	11/14	11/18	11/22	11/26	11/30	12/05	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	146	138	132	126	121	116	111	105	96
32	157	151	147	143	140	136	133	128	122
28	186	178	173	168	164	159	155	149	142
24	211	205	201	198	194	191	187	183	177
20	245	235	229	223	217	212	206	199	190
16	276	267	261	256	251	246	241	235	227

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1026	844	693	410	180	41	6	16	96	375	639	917	5243
60	871	704	538	267	81	8	0	1	32	242	490	762	3996
57	778	620	449	191	42	2	0	0	13	176	403	669	3343
55	716	564	392	146	25	1	0	0	7	138	348	615	2952
50	574	434	257	63	4	0	0	0	1	66	222	471	2092
32	165	89	16	0	0	0	0	0	0	0	10	106	386

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	162	169	346	580	868	1054	1211	1168	945	656	361	212	7732
55	0	0	9	37	180	365	498	455	262	81	10	8	1905
57	0	0	4	21	135	306	436	393	209	56	4	0	1564
60	0	0	0	8	81	222	343	301	138	30	1	0	1124
65	0	0	0	0	25	105	193	161	51	8	0	0	543
70	0	0	0	0	4	33	75	63	10	0	0	0	185

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	33	59	164	353	621	815	967	920	706	411	175	66	33	92	256	609	1230	2045	3012	3932	4638	5049	5224	5290
45	13	26	89	227	466	665	812	765	556	273	95	32	13	39	128	355	821	1486	2298	3063	3619	3892	3987	4019
50	1	6	38	128	318	515	657	610	408	156	43	7	1	7	45	173	491	1006	1663	2273	2681	2837	2880	2887
55	0	0	15	61	187	368	502	456	270	70	11	1	0	0	15	76	263	631	1133	1589	1859	1929	1940	1941
60	0	0	2	21	87	231	349	303	149	23	1	0	0	0	2	23	110	341	690	993	1142	1165	1166	1166
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	29	54	132	247	393	536	645	609	453	282	130	54	29	83	215	462	855	1391	2036	2645	3098	3380	3510	3564

(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