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: TERRA ALTA NO 1, WV **COOP ID: 468777**

Climate Division: WV 4 **NWS Call Sign:** **Elevation: 2,630 Feet** **Lat: 39˚27N** **Lon: 79˚33W**

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	34.1	18.5	26.3	72	1950	25	35.2	1990	-25	1985	21	12.2	1977	1201	0	.0	.0	3.6	14.0	27.7	2.7
Feb	37.7	20.5	29.1	69	1999	11	37.5	1990	-12	1996	4	18.4	1978	1006	0	.0	.0	5.7	10.1	23.6	1.7
Mar	47.2	27.8	37.5	81	1998	31	43.6	1973	-9	1966	9	30.5	1984	852	0	.0	.0	13.5	4.7	20.7	.2
Apr	58.3	36.8	47.6	88	1976	18	53.5	1994	9	1950	14	42.3	1975	524	0	.0	.0	22.9	.5	10.9	.0
May	66.9	46.6	56.8	88+	1974	15	63.7	1991	17	1966	11	51.7	1971	279	23	.0	.0	29.7	.0	1.4	.0
Jun	73.9	54.6	64.3	89	1966	28	67.6	1994	27+	1966	1	57.7	1972	87	63	.0	.0	29.9	.0	.0	.0
Jul	77.0	59.4	68.2	95	1988	16	72.4	1999	39	1988	1	65.0	1976	24	123	.0	.2	31.0	.0	.0	.0
Aug	75.8	58.1	67.0	94	1988	17	72.1	1988	34	1986	29	64.1	1976	41	102	.0	.4	31.0	.0	.0	.0
Sep	70.0	52.1	61.1	87+	1965	11	65.1	1971	28+	1949	25	58.0	1974	140	21	.0	.0	29.7	.0	.3	.0
Oct	60.1	41.3	50.7	82	1949	10	59.3	1984	8	1965	30	43.9	1988	448	6	.0	.0	26.7	@	5.4	.0
Nov	48.6	32.4	40.5	78	1948	6	47.1	1985	-1	1950	26	32.3	1976	734	0	.0	.0	14.7	3.5	16.4	.0
Dec	38.8	23.6	31.2	72+	1966	10	40.1	1984	-22	1983	25	18.1	1989	1048	0	.0	.0	6.4	9.9	25.0	1.0
Ann	57.4	39.3	48.4	95	Jul 1988	16	72.4	Jul 1999	-25	Jan 1985	21	12.2	Jan 1977	6384	338	.0	.6	244.8	42.7	131.4	5.6

\+ 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: 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	4.64	4.69	1.70	1974	11	7.52	1978	1.41	1973
Feb	4.11	4.11	3.35	1994	9	7.42	1994	1.53	1978
Mar	4.90	5.10	1.68+	1967	7	8.45	1994	1.99	1987
Apr	4.80	4.73	2.00	1984	5	7.28	1973	1.31	1971
May	4.92	5.26	2.81	1968	24	10.89	1996	1.24	1991
Jun	5.22	4.70	2.80	1972	23	10.51	1972	1.80	1988
Jul	5.97	4.97	3.85	1982	4	11.13	1996	2.67	1991
Aug	4.67	4.10	3.12	1987	23	10.73	1975	1.26	1973
Sep	3.96	3.71	3.13	1996	7	9.10	1993	.74	1985
Oct	3.49	3.62	2.28	1985	21	8.00	1976	1.22	2000
Nov	4.45	4.19	2.95	1985	5	12.28	1985	.91	1998
Dec	4.69	4.50	1.96	1978	9	9.16	1990	2.59	1980
Ann	55.82	55.49	3.85	Jul 1982	4	12.28	Nov 1985	.74	Sep 1985

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	19.1	12.1	2.7	.6
Feb	16.4	10.6	2.5	.4
Mar	16.1	11.2	3.4	.8
Apr	15.6	10.9	3.3	.7
May	14.8	10.5	3.1	.9
Jun	13.6	9.7	3.6	1.2
Jul	13.2	9.5	4.2	1.6
Aug	12.6	8.7	3.2	1.1
Sep	11.7	7.9	3.0	.6
Oct	11.8	7.8	2.4	.7
Nov	14.9	10.1	2.9	.8
Dec	18.5	11.5	3.0	.7
Ann	178.3	120.5	37.3	10.1

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	1.99	2.41	2.99	3.47	3.92	4.37	4.86	5.42	6.13	7.21	8.19
Feb	2.02	2.37	2.85	3.23	3.58	3.93	4.31	4.74	5.27	6.07	6.79
Mar	2.39	2.81	3.38	3.84	4.26	4.68	5.13	5.65	6.29	7.25	8.12
Apr	2.45	2.85	3.39	3.82	4.22	4.62	5.04	5.51	6.11	7.00	7.80
May	2.02	2.47	3.11	3.63	4.12	4.62	5.16	5.77	6.56	7.76	8.85
Jun	1.95	2.44	3.14	3.73	4.28	4.85	5.47	6.18	7.09	8.50	9.78
Jul	2.43	2.98	3.75	4.39	4.99	5.60	6.25	7.01	7.97	9.44	10.77
Aug	1.76	2.19	2.82	3.34	3.83	4.34	4.88	5.52	6.33	7.57	8.70
Sep	1.16	1.54	2.10	2.59	3.07	3.56	4.11	4.75	5.58	6.88	8.09
Oct	1.12	1.45	1.94	2.36	2.76	3.18	3.64	4.18	4.87	5.94	6.94
Nov	1.67	2.09	2.68	3.18	3.65	4.13	4.65	5.26	6.03	7.22	8.30
Dec	2.49	2.87	3.38	3.79	4.16	4.53	4.92	5.36	5.91	6.73	7.46
Ann	44.22	46.56	49.50	51.70	53.64	55.48	57.37	59.44	61.93	65.48	68.52

\+ 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

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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	42.2	41.8	6	4	24.0	1996	8	104.0	1977	36	1977	30	24	1977	13.6	12.4	6.2	2.9	.6	20.7	16.1	12.2	5.8
Feb	30.2	29.5	7	4	12.0	1979	8	49.0	1993	36+	1979	19	27	1979	10.4	9.3	4.5	2.2	.3	18.5	14.2	12.0	6.2
Mar	26.0	22.0	3	2	24.0	1999	4	93.1	1999	32	1978	5	18	1978	8.3	7.6	3.7	1.7	.3	11.1	7.0	4.7	2.1
Apr	12.3	10.0	#	#	12.0	1986	10	38.0	1990	11	1987	6	2	1987	4.3	3.7	1.7	1.0	.1	2.6	1.3	.7	.1
May	.3	.0	#	0	3.0	1989	8	5.5	1989	#+	1996	13	#+	1996	.2	.1	@	.0	.0	.0	.0	.0	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	#	1996	12	#	1996	.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	1.8	1.0	#	#	6.0	1980	26	11.0	1979	3	1980	26	#+	2000	.9	.8	.3	@	.0	.3	@	.0	.0
Nov	12.8	14.0	1	#	27.0	1995	15	27.0	1995	20	1995	16	6	1995	5.6	4.9	2.3	.8	.1	5.4	3.1	1.1	.2
Dec	26.6	24.5	3	2	20.0	1974	2	51.9	1992	24	1974	3	11	1974	10.4	9.2	4.2	1.9	.2	15.2	10.0	6.8	2.0
Ann	152.2	142.8	N/A	N/A	27.0	Nov 1995	15	104.0	Jan 1977	36+	Feb 1979	19	27	Feb 1979	53.7	48.0	22.9	10.5	1.6	73.8	51.7	37.5	16.4

+ 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	6/08	6/01	5/26	5/22	5/18	5/14	5/10	5/05	4/28
32	5/15	5/12	5/09	5/07	5/06	5/04	5/02	4/29	4/26
28	5/07	5/02	4/28	4/25	4/22	4/18	4/15	4/11	4/06
24	4/24	4/20	4/17	4/14	4/12	4/10	4/07	4/04	3/31
20	4/18	4/13	4/10	4/08	4/05	4/03	3/31	3/28	3/24
16	4/09	4/04	4/01	3/28	3/26	3/23	3/19	3/16	3/11

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	9/11	9/17	9/20	9/23	9/26	9/29	10/02	10/06	10/11
32	9/24	9/29	10/02	10/06	10/09	10/12	10/15	10/19	10/24
28	10/04	10/10	10/14	10/18	10/21	10/25	10/28	11/02	11/08
24	10/18	10/24	10/28	10/31	11/03	11/06	11/10	11/14	11/20
20	10/30	11/04	11/08	11/12	11/15	11/18	11/21	11/25	12/01
16	11/10	11/15	11/20	11/23	11/27	11/30	12/04	12/08	12/14

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	153	145	140	135	130	126	121	115	108
32	173	167	163	159	155	152	148	144	138
28	210	200	193	188	182	177	171	164	155
24	225	218	213	208	204	200	196	191	184
20	244	237	232	227	223	218	214	209	201
16	270	261	255	250	246	241	236	230	222

***** 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	1201	1006	852	524	279	87	24	41	140	448	734	1048	6384
60	1046	866	697	377	167	28	3	7	53	310	585	893	5032
57	953	782	604	293	114	11	0	1	25	237	497	800	4317
55	891	726	545	241	85	6	0	0	14	194	442	743	3887
50	739	586	402	132	33	1	0	0	2	108	308	598	2909
32	271	174	62	1	0	0	0	0	0	2	32	191	733

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	93	92	233	467	767	967	1122	1084	872	582	288	166	6733
55	0	0	3	18	139	283	409	371	195	61	8	5	1492
57	0	0	0	9	107	228	347	309	147	42	3	0	1192
60	0	0	0	3	66	155	257	223	85	22	1	0	812
65	0	0	0	0	23	63	123	102	21	6	0	0	338
70	0	0	0	0	6	15	39	30	2	0	0	0	92

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	26	36	122	279	539	743	892	854	640	354	146	46	26	62	184	463	1002	1745	2637	3491	4131	4485	4631	4677
45	5	14	70	175	389	593	737	699	492	227	78	23	5	19	89	264	653	1246	1983	2682	3174	3401	3479	3502
50	0	4	32	103	258	445	582	544	345	122	38	4	0	4	36	139	397	842	1424	1968	2313	2435	2473	2477
55	0	0	12	51	149	306	427	389	213	54	10	0	0	0	12	63	212	518	945	1334	1547	1601	1611	1611
60	0	0	4	16	68	174	274	239	106	10	0	0	0	0	4	20	88	262	536	775	881	891	891	891
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	10	20	74	169	309	463	584	550	378	196	76	23	10	30	104	273	582	1045	1629	2179	2557	2753	2829	2852

(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