

Climatology of the United States

No. 20 1971-2000

Station: FAIRMONT, WV

COOP ID: 462920

Climate Division: WV 2

NWS Call Sign:

Elevation: 1,300 Feet Lat: 39° 28N

Lon: 80° 08W

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	37.9	20.4	29.2	78	1932	15	38.4	1990	-21	1994	20	16.0	1977	1112	0	.0	.0	6.0	10.5	26.2	2.0
Feb	42.1	21.9	32.0	78	1932	12	40.5	1976	-12	1934	28	20.8	1978	924	0	.0	.0	8.3	7.0	22.9	1.0
Mar	52.7	29.6	41.2	91+	1929	26	49.7	1973	-10	1934	1	33.9	1996	740	0	.0	.0	18.0	2.0	19.3	.1
Apr	63.7	38.4	51.1	93	1942	30	55.7	1985	16+	1972	9	46.1	1997	420	1	.0	.1	26.1	.1	8.2	.0
May	72.5	48.6	60.6	100	1934	21	67.3	1991	25+	1977	11	54.6	1994	190	52	.0	.1	30.7	.0	1.2	.0
Jun	79.9	56.7	68.3	102	1934	29	72.0	1984	35+	1966	2	62.8	1972	35	134	.0	1.4	30.0	.0	.0	.0
Jul	83.3	61.1	72.2	105+	1934	25	75.7	1999	42	1988	1	68.6	2000	3	227	@	4.4	31.0	.0	.0	.0
Aug	82.1	59.6	70.9	107	1930	5	75.6	1995	36	1982	29	67.5	1992	14	195	.0	2.7	31.0	.0	.0	.0
Sep	75.6	53.1	64.4	101	1932	2	68.2	1977	29	1983	24	61.1	1997	81	61	.0	.6	30.0	.0	.2	.0
Oct	64.6	41.5	53.1	93	1927	3	60.8	1984	17	1976	28	46.5	1988	381	9	.0	.0	28.6	.0	5.2	.0
Nov	52.8	33.4	43.1	84+	1933	2	49.7	1985	1	1929	30	35.9	1976	658	0	.0	.0	17.7	1.1	15.4	.0
Dec	42.4	25.5	34.0	75+	1951	7	43.1	1984	-16	1983	25	20.9	1989	964	0	.0	.0	8.9	6.7	23.9	.7
Ann	62.5	40.8	51.7	107	Aug 1930	5	75.7	Jul 1999	-21	Jan 1994	20	16.0	Jan 1977	5522	679	@	9.3	266.3	27.4	122.5	3.8

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1926-2001

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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	3.45	2.77	2.05	1978	25	7.10	1978	1.31	1981	15.4	8.3	2.0	.6	1.11	1.43	1.92	2.33	2.73	3.14	3.60	4.13	4.81	5.88	6.86	
Feb	2.95	2.79	3.19	2000	19	5.84	2000	.85	1987	12.6	7.4	1.6	.3	1.01	1.29	1.70	2.04	2.37	2.71	3.08	3.51	4.06	4.92	5.71	
Mar	4.07	4.33	2.47	1967	6	8.19	1994	1.26	1987	13.2	8.4	3.2	.6	1.66	2.03	2.56	2.99	3.40	3.82	4.27	4.78	5.44	6.44	7.35	
Apr	3.59	3.62	3.17	1948	12	5.74	1973	1.13	1985	13.7	8.5	2.3	.4	1.52	1.85	2.30	2.67	3.02	3.38	3.76	4.20	4.75	5.59	6.36	
May	4.85	4.97	2.98	1984	28	9.41	1996	2.00	1986	13.6	9.4	3.3	1.1	2.14	2.57	3.17	3.67	4.12	4.59	5.08	5.65	6.37	7.46	8.44	
Jun	4.24	3.72	3.00	1936	7	9.99	1998	.59	1991	12.3	8.6	2.9	.9	1.32	1.72	2.32	2.83	3.33	3.84	4.41	5.07	5.93	7.26	8.50	
Jul	4.92	4.51	3.68	1984	10	10.59	1996	1.67	1975	11.3	8.3	3.5	1.4	1.81	2.27	2.93	3.49	4.02	4.56	5.15	5.83	6.70	8.05	9.28	
Aug	4.18	4.20	3.49	1980	18	9.34	1980	1.51	1976	11.1	7.8	3.0	.8	1.70	2.09	2.63	3.07	3.49	3.92	4.38	4.91	5.59	6.61	7.55	
Sep	3.51	2.87	2.60	1961	20	7.34	1993	.66	1985	10.5	7.1	2.5	.9	1.04	1.37	1.87	2.30	2.72	3.16	3.64	4.21	4.94	6.09	7.16	
Oct	3.03	3.21	3.64	1954	15	6.86	1976	1.12	1997	10.2	6.8	2.3	.4	1.13	1.41	1.82	2.16	2.48	2.81	3.17	3.58	4.11	4.93	5.67	
Nov	3.68	3.70	3.66	1985	4	10.07	1985	.77	1976	12.6	7.8	2.8	.6	1.36	1.70	2.20	2.61	3.00	3.41	3.84	4.35	5.00	6.00	6.91	
Dec	3.38	3.08	2.28	1978	8	9.06	1990	1.29	1988	14.3	8.0	2.1	.4	1.23	1.55	2.01	2.39	2.75	3.13	3.54	4.01	4.61	5.54	6.39	
Ann	45.85	45.19	3.68	Jul 1984	10	10.59	Jul 1996	.59	Jun 1991	150.8	96.4	31.5	8.4	35.66	37.70	40.28	42.20	43.90	45.53	47.19	49.02	51.22	54.37	57.07	

+ 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: 1926-2001

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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	14.5	11.5	2	1	16.5	1996	8	38.0	1994	20	1978	21	9	1978	7.1	4.7	1.3	.4	.1	10.7	5.8	3.5	1.0
Feb	10.0	6.9	2	1	16.8	1983	11	27.0	1972	16	1979	12	10	1978	4.6	3.0	.9	.5	@	8.3	4.3	2.6	1.0
Mar	5.6	4.4	1	#	15.0	1993	14	22.5	1993	20	1993	15	3+	1999	2.6	1.8	.8	.2	.1	3.0	1.5	.8	.4
Apr	1.3	.0	#	0	10.0	1987	4	16.0	1987	13	1987	4	1	1987	.6	.4	.1	.1	@	.4	.1	.1	@
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	.8	1972	19	.8	1972	1	1972	19	#+	1992	@	.0	.0	.0	.0	@	.0	.0	.0
Nov	2.4	1.5	#	#	7.0	1971	24	16.6	1995	8	1995	17	2	1995	1.5	.8	.2	.1	.0	1.2	.2	.1	.0
Dec	5.7	4.3	1	#	8.0	1973	9	13.3	1993	8	1992	11	2+	2000	3.9	2.4	.3	.1	.0	4.4	1.5	.4	.0
Ann	39.5	28.6	N/A	N/A	16.8	Feb 1983	11	38.0	Jan 1994	20+	Mar 1993	15	10	Feb 1978	20.3	13.1	3.6	1.4	.2	28.0	13.4	7.5	2.4

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

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-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	5/31	5/25	5/20	5/17	5/13	5/09	5/05	5/01	4/24
32	5/14	5/09	5/05	5/02	4/28	4/25	4/22	4/18	4/13
28	5/01	4/26	4/22	4/18	4/15	4/11	4/08	4/04	3/29
24	4/18	4/13	4/09	4/06	4/04	4/01	3/29	3/25	3/20
20	4/12	4/06	4/02	3/29	3/25	3/22	3/18	3/13	3/07
16	3/30	3/24	3/19	3/15	3/11	3/07	3/03	2/26	2/19
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	9/17	9/22	9/26	9/29	10/02	10/05	10/08	10/12	10/17
32	9/30	10/04	10/08	10/10	10/13	10/16	10/18	10/22	10/26
28	10/10	10/16	10/19	10/23	10/26	10/29	11/01	11/05	11/10
24	10/21	10/27	10/31	11/03	11/07	11/10	11/13	11/18	11/23
20	11/01	11/08	11/14	11/18	11/22	11/26	12/01	12/06	12/14
16	11/13	11/20	11/24	11/28	12/02	12/06	12/10	12/14	12/21
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	163	155	150	146	141	137	133	127	120
32	188	181	176	171	167	163	158	153	145
28	218	209	203	198	193	188	183	177	168
24	242	233	227	222	216	211	206	199	191
20	272	262	254	247	241	235	229	221	210
16	291	283	276	271	266	261	255	249	240

* 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
65	1112	924	740	420	190	35	3	14	81	381	658	964	5522
60	957	784	585	275	100	8	0	1	25	250	510	809	4304
57	864	700	499	198	61	3	0	0	10	184	425	717	3661
55	802	644	442	152	41	1	0	0	5	146	370	660	3263
50	657	512	308	66	12	0	0	0	1	74	245	517	2392
32	219	134	37	0	0	0	0	0	0	0	18	137	545

Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
	Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
32	130	134	320	571	885	1089	1247	1204	970	651	350	196	7747
55	0	0	12	33	212	400	534	491	285	84	13	7	2071
57	0	0	7	19	170	342	472	429	230	60	8	1	1738
60	0	0	0	7	117	257	379	337	155	33	2	0	1287
65	0	0	0	1	52	134	227	195	61	9	0	0	679
70	0	0	0	0	17	50	98	88	14	1	0	0	268

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	38	62	175	368	646	858	1009	969	739	414	181	67	38	100	275	643	1289	2147	3156	4125	4864	5278	5459	5526
45	17	29	106	247	492	708	854	814	589	277	105	33	17	46	152	399	891	1599	2453	3267	3856	4133	4238	4271
50	2	10	61	149	344	558	699	659	441	161	53	15	2	12	73	222	566	1124	1823	2482	2923	3084	3137	3152
55	0	1	29	83	216	412	544	504	299	79	23	1	0	1	30	113	329	741	1285	1789	2088	2167	2190	2191
60	0	0	11	36	117	268	389	351	178	31	7	0	0	0	11	47	164	432	821	1172	1350	1381	1388	1388
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	26	41	125	238	404	566	683	651	467	253	109	36	26	67	192	430	834	1400	2083	2734	3201	3454	3563	3599

(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/normal/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 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.

- | | |
|---|---|
| <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