

Climatology of the United States

No. 20

1971-2000

Station: CORBIN, VA

COOP ID: 442009

Climate Division: VA 2

NWS Call Sign:

Elevation: 220 Feet Lat: 38° 12N Lon: 77° 22W

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	44.2	25.3	34.8	76	1975	30	42.5	1990	-8	1994	19	23.8	1977	938	0	.0	.0	8.9	5.0	24.9	.7
Feb	48.0	28.2	38.1	81	2000	26	45.9	1976	-11	1996	5	27.2	1979	753	0	.0	.0	11.7	2.8	20.7	.2
Mar	56.9	35.7	46.3	90	1998	31	51.8	2000	6	1960	11	40.0	1996	579	0	.0	@	21.7	.5	13.6	.0
Apr	67.2	44.0	55.6	94	1960	27	60.7	1994	20	1965	1	51.4	1975	286	4	.0	.4	28.6	.0	4.4	.0
May	75.4	53.2	64.3	96+	1996	21	69.6	1991	27	1966	11	60.3	1997	87	65	.0	1.0	30.9	.0	.1	.0
Jun	83.0	62.0	72.5	99+	1988	23	76.1	1994	36	1977	8	68.9	1992	6	231	.0	5.0	30.0	.0	.0	.0
Jul	87.1	66.4	76.8	103	1988	17	79.4	1987	43	1988	1	73.6	2000	0	364	.2	11.1	31.0	.0	.0	.0
Aug	85.6	65.0	75.3	104	1983	21	79.3	1983	43+	1986	30	71.0	1992	1	320	.2	8.4	31.0	.0	.0	.0
Sep	79.4	58.3	68.9	100	1980	3	74.2	1998	31+	1963	25	66.0	1975	30	145	@	2.9	30.0	.0	@	.0
Oct	68.8	45.8	57.3	92	1986	2	64.8	1984	21	1969	24	52.0	1988	264	25	.0	.1	30.7	.0	3.1	.0
Nov	58.8	37.5	48.2	86	1974	2	55.0	1985	11+	1989	24	41.6	1976	506	1	.0	.0	22.9	.0	12.0	.0
Dec	48.5	29.8	39.2	80	1998	8	47.3	1984	-3	1962	13	27.5	1989	802	0	.0	.0	13.6	2.2	20.9	.1
Ann	66.9	45.9	56.4	104	Aug 1983	21	79.4	Jul 1987	-11	Feb 1996	5	23.8	Jan 1977	4252	1155	.4	28.9	291.0	10.5	99.7	1.0

+ 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: 1959-2001

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

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: CORBIN, VA

COOP ID: 442009

Climate Division: VA 2

NWS Call Sign:

Elevation: 220 Feet Lat: 38°12N

Lon: 77°22W

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	3.72	3.27	2.69	1978	26	9.21	1978	.26	1981	10.8	7.1	2.8	.8	1.11	1.46	1.99	2.45	2.89	3.35	3.86	4.46	5.23	6.44	7.57
Feb	3.17	2.90	3.13	1998	5	9.45	1998	.39	1978	9.8	6.2	2.2	.7	.67	.96	1.43	1.85	2.28	2.73	3.24	3.85	4.66	5.95	7.17
Mar	4.21	3.83	3.35	1984	29	9.49	1994	1.06	1986	10.7	7.3	2.9	1.1	1.32	1.72	2.31	2.82	3.31	3.82	4.38	5.04	5.89	7.21	8.43
Apr	3.26	3.03	2.77	1987	17	7.47	1983	.43	1985	10.1	5.9	2.3	.8	.99	1.30	1.76	2.16	2.54	2.94	3.39	3.91	4.58	5.63	6.60
May	4.02	4.07	2.80	1989	2	7.52	1971	.52	1999	11.3	7.1	2.8	1.0	1.42	1.80	2.35	2.81	3.25	3.71	4.20	4.78	5.52	6.66	7.70
Jun	3.60	3.29	7.45	1972	22	11.19	1972	.88	1980	10.5	6.0	2.5	.8	1.09	1.43	1.94	2.39	2.81	3.26	3.74	4.32	5.06	6.22	7.29
Jul	4.34	4.01	3.94	1972	13	7.71	1994	1.08	1993	10.9	7.0	3.0	1.0	1.53	1.94	2.53	3.03	3.51	4.00	4.53	5.15	5.95	7.17	8.30
Aug	3.70	2.99	5.38	1969	20	8.45+	1985	.46	1991	9.6	5.5	2.0	1.1	.75	1.09	1.63	2.13	2.63	3.17	3.77	4.51	5.47	7.02	8.49
Sep	3.97	3.29	4.65	1999	16	10.44	1999	.98	1986	9.1	5.9	2.4	1.1	.92	1.29	1.87	2.39	2.91	3.46	4.07	4.81	5.77	7.29	8.73
Oct	3.89	3.18	3.07	1979	1	9.36	1976	.00	2000	8.5	5.4	2.6	1.4	.63	1.15	1.81	2.35	2.88	3.43	4.05	4.77	5.72	7.23	8.63
Nov	3.33	3.20	3.73	1993	28	6.79	1985	.24	1981	9.1	5.7	2.3	.9	.80	1.12	1.60	2.03	2.46	2.92	3.42	4.03	4.82	6.07	7.24
Dec	3.33	3.07	2.92	1986	25	6.72	1991	.32	1980	10.4	5.9	2.3	.8	.73	1.04	1.53	1.97	2.41	2.88	3.41	4.04	4.87	6.20	7.45
Ann	44.54	45.95	7.45	Jun 1972	22	11.19	Jun 1972	.00	Oct 2000	120.8	75.0	30.1	11.5	33.36	35.56	38.37	40.48	42.34	44.13	45.98	48.01	50.45	53.98	57.02

+ 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: 1959-2001

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

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Station: CORBIN, VA

COOP ID: 442009

Climate Division: VA 2

NWS Call Sign:

Elevation: 220 Feet

Lat: 38°12N

Lon: 77°22W

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	5.2	3.8	1	#	9.0	1987	26	21.3	1987	16	1987	26	4	1996	2.7	1.7	.7	.2	.0	5.4	3.3	1.4	.4
Feb	5.0	2.5	#	#	12.0	1979	19	24.2	1979	16	1979	19	5	1979	1.9	1.3	.6	.3	.1	3.4	1.8	1.1	.3
Mar	1.5	.0	#	#	9.5	1980	2	11.5	1980	10	1980	2	1+	1999	.9	.7	.2	.1	.0	1.1	.6	.3	@
Apr	.2	.0	#	0	3.5	1971	7	3.5	1971	4	1971	7	#+	1990	.1	.1	@	.0	.0	.1	@	.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	1.0	1979	11	1.0	1979	#	1979	10	#	1979	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	.5	.0	#	0	6.5	1987	12	7.4	1987	6	1987	12	#+	1996	.2	.1	.1	@	.0	.2	.1	@	.0
Dec	1.8	.1	#	#	6.5	1989	9	15.0	1989	11	1989	13	4	1989	1.1	.6	.2	.1	.0	1.6	1.1	.6	@
Ann	14.2	6.4	N/A	N/A	12.0	Feb 1979	19	24.2	Feb 1979	16+	Jan 1987	26	5	Feb 1979	6.9	4.5	1.8	.7	.1	11.8	6.9	3.4	.7

+ 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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No. 20 1971-2000

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Climate Division: VA 2

NWS Call Sign:

Elevation: 220 Feet

Lat: 38° 12N

Lon: 77° 22W

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	5/21	5/16	5/12	5/09	5/05	5/02	4/29	4/25	4/20
32	5/05	4/30	4/26	4/23	4/20	4/17	4/14	4/11	4/06
28	4/18	4/13	4/10	4/07	4/04	4/02	3/30	3/26	3/22
24	4/08	4/02	3/29	3/26	3/22	3/19	3/16	3/12	3/06
20	3/23	3/18	3/14	3/10	3/07	3/04	2/28	2/24	2/19
16	3/15	3/09	3/04	2/28	2/24	2/21	2/17	2/12	2/06
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	9/26	9/30	10/03	10/06	10/08	10/11	10/14	10/17	10/21
32	10/04	10/09	10/13	10/16	10/19	10/22	10/25	10/29	11/03
28	10/15	10/21	10/25	10/29	11/02	11/05	11/09	11/14	11/20
24	10/26	11/02	11/06	11/11	11/14	11/18	11/22	11/27	12/03
20	11/11	11/17	11/22	11/26	11/30	12/04	12/08	12/13	12/20
16	11/29	12/05	12/10	12/14	12/17	12/21	12/25	12/29	1/05
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	174	167	163	159	155	152	148	143	137
32	203	196	190	186	181	177	172	167	159
28	238	229	222	216	211	205	200	193	184
24	264	255	248	242	236	231	225	218	208
20	292	284	278	272	267	263	257	251	243
16	320	312	305	300	295	290	285	279	270

* 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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Climate Division: VA 2 NWS Call Sign: Elevation: 220 Feet Lat: 38°12N Lon: 77°22W

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	938	753	579	286	87	6	0	1	30	264	506	802	4252
60	783	613	427	159	26	0	0	0	6	155	364	647	3180
57	690	529	342	100	9	0	0	0	2	105	284	560	2621
55	630	477	287	70	4	0	0	0	1	78	236	503	2286
50	487	349	170	21	0	0	0	0	0	30	136	364	1557
32	109	49	5	0	0	0	0	0	0	0	3	56	222

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	194	220	449	708	1001	1215	1387	1343	1105	783	488	277	9170
55	2	4	17	88	293	525	674	630	416	148	31	11	2839
57	0	0	10	59	236	465	612	568	357	113	19	6	2445
60	0	0	3	28	160	375	519	475	272	70	9	0	1911
65	0	0	0	4	65	231	364	320	145	25	1	0	1155
70	0	0	0	0	17	111	213	178	56	6	0	0	581

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	60	93	232	453	741	968	1135	1090	861	529	265	102	60	153	385	838	1579	2547	3682	4772	5633	6162	6427	6529
45	28	47	137	315	586	818	980	935	711	381	167	53	28	75	212	527	1113	1931	2911	3846	4557	4938	5105	5158
50	11	22	76	197	431	668	825	780	561	246	95	26	11	33	109	306	737	1405	2230	3010	3571	3817	3912	3938
55	1	5	38	111	287	519	670	625	413	143	44	9	1	6	44	155	442	961	1631	2256	2669	2812	2856	2865
60	0	0	15	55	169	374	515	470	276	68	15	1	0	0	15	70	239	613	1128	1598	1874	1942	1957	1958
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	41	62	150	280	465	651	776	748	560	327	164	61	41	103	253	533	998	1649	2425	3173	3733	4060	4224	4285

(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 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