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

COOP ID: 440243

Station: APPOMATTOX, VA

Climate Division: VA 3 NWS Call Sign:

Elevation: 910 Feet Lat: 37°21N Lon: 78°50W

									ŗ	Гетр	eratur	re (°F)									
	Mea	n (1)						Extr	emes					Degree Base To	•		Mean	Numb	er of I	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	44.9	23.7	34.3	73+	1999	28	42.9	1990	-14	1994	19	23.6	1977	952	0	.0	.0	10.6	3.8	25.0	.5
Feb	48.8	25.9	37.4	80+	2000	26	44.4	1990	-7	1996	5	26.3	1979	775	0	.0	.0	13.6	2.4	21.3	.1
Mar	57.6	33.1	45.4	89	1990	14	50.6	1990	5	1993	15	40.4	1971	610	0	.0	.0	23.1	.3	14.2	.0
Apr	68.0	41.7	54.9	93	1985	24	60.1	1985	23	1982	7	50.3	1975	310	5	.0	.6	28.6	.0	3.4	.0
May	75.6	50.9	63.3	93	1996	21	69.9	1991	27	1997	5	58.1	1997	122	68	.0	.6	30.9	.0	.1	.0
Jun	83.0	60.2	71.6	98	1964	21	74.6+	1989	39+	1984	1	66.6	1972	12	209	.0	4.9	30.0	.0	.0	.0
Jul	87.0	64.7	75.9	103	1977	22	80.0	1987	45	1982	1	72.9+	2000	0	336	.4	10.5	31.0	.0	.0	.0
Aug	85.6	63.0	74.3	103	1983	21	78.6	1988	44+	1986	29	71.0	1971	2	290	.2	8.1	31.0	.0	.0	.0
Sep	79.1	56.3	67.7	98	1983	12	74.0	1998	34	1974	24	64.0	1974	43	125	.0	2.4	30.0	.0	.0	.0
Oct	68.9	43.1	56.0	90	1986	5	62.6	1984	20+	1969	25	51.0	1976	298	19	.0	@	30.6	.0	2.9	.0
Nov	58.6	34.8	46.7	83+	1974	3	54.1	1985	9	1970	25	40.6	1976	550	0	.0	.0	23.5	.0	12.4	.0
Dec	48.8	27.2	38.0	79+	1998	7	46.3	1984	-8	1983	26	28.2	1989	836	0	.0	.0	13.9	2.0	21.6	.1
Ann	67.2	43.7	55.5	103+	Aug 1983	21	80.0	Jul 1987	-14	Jan 1994	19	23.6	Jan 1977	4510	1052	.6	27.1	296.8	8.5	100.9	.7

⁺ Also occurred on an earlier date(s)

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Issue Date: February 2004 003-A

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

⁽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

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: APPOMATTOX, VA

COOP ID: 440243

Climate Division: VA 3 NWS Call Sign: Elevation: 910 Feet Lat: 37°21N Lon: 78°50W

										Pı	recipi	tation	(incl	hes)										
	Me	ans/	P	recip	itatio	on Total					ean N of D	ays (3	3)	Proba	ability th		nonthly/	annual j	precipita ated an	babilit ation wi nount vs Proba	ll be equ		less tha	an the
	Medi	ans(1)				Extremes	,				any 11c	стриацо	11		Th	ese value	s were de	termined	from the	incomplet	te gamma	distribut	ion	
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	3.58	3.44	2.20	1998	27	7.16	1978	.40	1981	8.5	7.0	2.9	.9	1.02	1.36	1.88	2.32	2.76	3.21	3.72	4.31	5.08	6.28	7.40
Feb	3.23	3.03	2.00	1972	13	7.07	1998	.22	1978	7.5	6.0	2.7	.8	.88	1.18	1.65	2.06	2.46	2.88	3.35	3.90	4.62	5.74	6.80
Mar	4.19	3.94	3.45	1990	18	10.90	1975	.81	1985	8.9	6.7	2.9	1.2	1.16	1.55	2.16	2.68	3.20	3.74	4.34	5.05	5.96	7.41	8.76
Apr	3.58	3.25	3.26	1992	22	7.23	1987	.78	1985	9.0	6.6	2.2	.9	1.16	1.50	2.00	2.42	2.83	3.26	3.73	4.27	4.97	6.06	7.07
May	4.51	3.58	3.37	1971	13	11.36	1971	.68	1994	10.5	7.6	3.1	1.4	1.14	1.56	2.22	2.80	3.37	3.98	4.65	5.45	6.49	8.15	9.70
Jun	3.55	3.05	6.85	1972	22	12.47	1972	.54	1980	8.7	6.1	2.2	1.0	.75	1.08	1.60	2.08	2.55	3.06	3.63	4.32	5.22	6.67	8.04
Jul	4.48	4.12	5.03	1975	14	9.34	1975	.88	1977	10.0	7.2	3.3	1.1	1.60	2.03	2.64	3.15	3.64	4.14	4.68	5.32	6.13	7.38	8.53
Aug	3.77	3.05	6.45	1973	18	13.75	1985	.65	1987	8.4	6.1	2.2	1.1	.80	1.14	1.70	2.20	2.71	3.25	3.86	4.59	5.55	7.10	8.55
Sep	4.45	3.33	8.35	1987	8	15.00	1996	.17	1985	7.7	5.7	2.7	1.6	.39	.69	1.29	1.90	2.58	3.35	4.27	5.42	7.01	9.66	12.27
Oct	3.86	3.48	4.24	1972	6	10.75	1995	.00	2000	7.5	5.5	2.7	1.2	.28	.68	1.30	1.86	2.45	3.10	3.85	4.76	5.99	8.00	9.94
Nov	3.61	3.05	4.20	1993	28	13.02	1985	.50	1981	7.7	5.9	2.4	1.2	.85	1.18	1.71	2.18	2.65	3.15	3.71	4.37	5.25	6.63	7.93
Dec	3.07	3.00	3.11	1958	29	6.99	1991	.42	1980	8.6	6.3	2.2	.9	.69	.97	1.42	1.83	2.23	2.66	3.14	3.72	4.48	5.69	6.83
Ann	45.88	45.97	8.35	Sep 1987	8	15.00	Sep 1996	.00	Oct 2000	103.0	76.7	31.5	13.3	32.69	35.25	38.52	41.00	43.21	45.34	47.54	49.97	52.92	57.20	60.89

⁺ Also occurred on an earlier date(s)

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[#] 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

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

COOP ID: 440243

Station: APPOMATTOX, VA

Climate Division: VA 3 NWS Call Sign: Elevation: 910 Feet Lat: 37°21N Lon: 78°50W

										Snov	w (incl	hes)											
						Sno	ow To	tals									Mea	n Nu	mber	of Day	ys (1)		
	Mean	s/Medi	ians (1))					Extre	mes (2)							ow Fa					Depth esholo	
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	3.7	.0	1	#	18.0	1996	8	31.0	1987	30	1987	26	6	1987	1.0	.8	.5	.2	.1	3.2	2.0	.6	.4
Feb	3.7	.0	1	0	12.0	1983	11	25.8	1979	16	1982	28	10+	1987	1.2	1.1	.5	.3	.1	2.2	1.0	.8	.1
Mar	1.2	.0	#	0	6.0	1971	26	8.1	1971	12	1980	3	8	1980	.4	.3	.1	@	.0	.2	.1	.1	.0
Apr	.1	.0	#	0	3.5	1971	7	3.5	1971	4	1971	7	#	1971	.1	@	@	.0	.0	@	@	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	3.5	1971	25	3.5	1971	4	1971	25	#+	1996	.2	.1	@	.0	.0	.2	@	.0	.0
Dec	.5	.0	#	0	9.5	1989	13	9.5	1989	9	1973	18	1	1973	.3	.2	.1	@	.0	.3	.1	@	.0
Ann	9.5	.0	N/A	N/A	18.0	Jan 1996	8	31.0	Jan 1987	30	Jan 1987	26	10+	Feb 1987	3.2	2.5	1.2	.5	.2	6.1	3.2	1.5	.5

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

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[@] 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

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

COOP ID: 440243

Station: APPOMATTOX, VA

Climate Division: VA 3

NWS Call Sign:

Elevation: 910 Feet

Lat: 37°21N Lon: 78°50W

				Freez	e Data				
			Spri	ng Freeze D	ates (Month	/Day)			
Temp (F)		P	robability of	later date i	n spring (thr	ru Jul 31) tha	n indicated((*)	
remp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/13	5/08	5/05	5/02	4/29	4/26	4/23	4/20	4/15
32	5/01	4/25	4/21	4/17	4/14	4/11	4/07	4/03	3/29
28	4/18	4/13	4/09	4/05	4/02	3/30	3/26	3/22	3/16
24	4/03	3/28	3/23	3/20	3/16	3/13	3/09	3/05	2/27
20	3/26	3/20	3/15	3/12	3/08	3/05	3/01	2/25	2/19
16	3/15	3/06	2/27	2/22	2/17	2/12	2/06	1/31	1/22
'		1	Fal	l Freeze Da	tes (Month/L	Day)			•
T (E)		Pro	bability of ea	rlier date i	n fall (beginr	ning Aug 1) t	han indicate	d(*)	
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/28	10/02	10/06	10/08	10/11	10/14	10/16	10/20	10/24
32	10/06	10/12	10/16	10/19	10/23	10/26	10/30	11/03	11/09
28	10/15	10/21	10/25	10/29	11/02	11/05	11/09	11/13	11/19
24	10/30	11/06	11/10	11/14	11/18	11/22	11/26	11/30	12/06
20	11/10	11/17	11/22	11/26	11/30	12/03	12/07	12/12	12/19
16	11/27	12/05	12/10	12/15	12/20	12/24	12/29	1/04	1/12
				Freeze F	ree Period	-			
Town (E)			Probability	of longer th	an indicated	freeze free p	eriod (Days)	1	
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	186	178	173	168	164	160	155	150	143
32	211	204	199	195	191	187	183	178	171
28	239	230	224	218	213	208	202	196	187
24	272	263	257	251	246	241	235	229	220
20	288	280	275	270	266	261	256	251	243
16	339	328	319	312	305	298	291	283	271

^{*} 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.

Complete documentation available from:

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

COOP ID: 440243

Station: APPOMATTOX, VA

Climate Division: VA 3 NWS Call Sign: Elevation: 910 Feet Lat: 37°21N Lon: 78°50W

				Deg	ree Days t	o Selected	Base Tem	peratures	(°F)				
Base						Heatin	g Degree 1	Days (1)					
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	952	775	610	310	122	12	0	2	43	298	550	836	4510
60	797	635	457	181	50	1	0	0	11	181	404	681	3398
57	704	551	371	120	25	0	0	0	4	125	322	594	2816
55	644	500	315	86	14	0	0	0	2	95	270	536	2462
50	501	371	194	29	2	0	0	0	0	40	160	397	1694
32	120	62	8	0	0	0	0	0	0	0	4	71	265

Base						Coolin	g Degree l	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	191	211	422	685	969	1187	1359	1311	1072	744	444	258	8853
55	3	5	16	81	270	497	646	598	384	126	20	11	2657
57	0	1	9	55	218	437	584	536	326	95	12	6	2279
60	0	0	2	27	151	348	491	443	243	57	4	0	1766
65	0	0	0	5	68	209	336	290	125	19	0	0	1052
70	0	0	0	0	21	98	192	153	45	4	0	0	513

										Gro	wing l	Degre	e Uni	ts (2)										
Base					Growin	g Degree	Units (M	Ionthly)								Growi	ng Degre	ee Units (Accumu	lated Mo	onthly)			
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 40 58 93 236 463 733 958 1123 1080 842 517 251 93												Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	58 93 236 463 733 958 1123 1080 842 517 251 24 40 132 235 578 808 068 035 602 266 151												58	151	387	850	1583	2541	3664	4744	5586	6103	6354	6453
45	5 24 49 133 325 578 808 968 925 692 366 151											47	24	73	206	531	1109	1917	2885	3810	4502	4868	5019	5066
50	2 14 68 202 423 658 813 770 542 231 78											20	2	16	84	286	709	1367	2180	2950	3492	3723	3801	3821
55	0	2	27	112	281	509	658	615	396	121	31	4	0	2	29	141	422	931	1589	2204	2600	2721	2752	2756
60	0 0 9 51 161 362 503 460 256 51 9										0	0	0	9	60	221	583	1086	1546	1802	1853	1862	1862	
Base	Growing Degree Units for Corn (Monthly)													Gr	owing D	egree Un	its for C	orn (Acc	umulate	d Month	ly)			
50/86	0/86 42 72 154 291 459 639 768 736 544 324 155 70												42	114	268	559	1018	1657	2425	3161	3705	4029	4184	4254

(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

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

- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. Freeze Data Table

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

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