

Climatography of the United States

No. 20

1971-2000

Station: PULASKI, VA

COOP ID: 446955

Climate Division: VA 6

NWS Call Sign:

Elevation: 1,850 Feet Lat: 37°03N

Lon: 80°47W

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	40.5	22.6	31.6	69+	1998	7	42.3	1974	-16	1985	21	20.0	1977	1036	0	.0	.0	8.8	4.6	25.9	.9
Feb	44.9	23.9	34.4	79	1977	26	40.7	1976	-13	1996	5	24.1	1978	857	0	.0	.0	12.2	3.4	22.5	.2
Mar	53.5	31.0	42.3	84	1985	30	47.5	1973	0+	1993	16	36.3	1996	704	0	.0	.0	22.4	.7	17.4	.1
Apr	63.4	38.5	51.0	91	1985	21	56.1	1981	14	1985	10	47.3	1997	421	0	.0	@	27.6	.0	8.2	.0
May	71.8	48.1	60.0	96	1996	20	65.8	1991	25+	1983	11	55.3	1997	188	31	.0	.1	30.8	.0	1.4	.0
Jun	78.5	56.5	67.5	96+	1985	9	70.9	1981	32	1972	11	63.0	1972	37	113	.0	.8	30.0	.0	@	.0
Jul	82.3	60.7	71.5	99	1986	18	75.0	1993	39	1972	7	68.7	1979	4	206	.0	3.5	31.0	.0	.0	.0
Aug	81.1	59.2	70.2	98	1983	20	74.0	1983	33	1986	30	66.7	1976	9	167	.0	2.6	31.0	.0	.0	.0
Sep	74.9	52.7	63.8	95	1965	8	68.8	1998	30+	1985	15	60.7	1976	87	51	.0	.4	29.9	.0	.3	.0
Oct	64.7	40.6	52.7	89	1986	1	60.3	1984	14	1969	30	45.1	1988	389	6	.0	.0	29.9	.0	7.4	.0
Nov	54.2	32.9	43.6	79+	1982	2	51.1	1985	3	1970	25	36.3	1976	643	0	.0	.0	22.0	.2	16.3	.0
Dec	44.8	26.0	35.4	74	2001	6	43.0	1984	-12	1989	23	26.1	1989	918	0	.0	.0	12.2	3.1	23.5	.3
Ann	62.9	41.1	52.0	99	Jul 1986	18	75.0	Jul 1993	-16	Jan 1985	21	20.0	Jan 1977	5293	574	.0	7.4	287.8	12.0	122.9	1.5

+ 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: 1948-2001

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

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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: PULASKI, VA

COOP ID: 446955

Climate Division: VA 6

NWS Call Sign:

Elevation: 1,850 Feet Lat: 37°03N

Lon: 80°47W

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	2.93	2.79	2.61	1998	28	6.85	1998	.52	1981	9.4	5.8	2.0	.6	.77	1.05	1.47	1.85	2.21	2.60	3.03	3.54	4.20	5.24	6.22
Feb	2.81	2.82	2.65	1994	11	5.67	1987	.35	1980	9.3	5.8	1.9	.4	.82	1.09	1.49	1.83	2.17	2.52	2.91	3.37	3.96	4.89	5.75
Mar	3.34	2.91	3.20	1954	1	8.32	1993	.94	1988	10.3	6.4	2.6	.7	1.11	1.43	1.90	2.29	2.67	3.06	3.49	3.99	4.63	5.62	6.54
Apr	3.09	2.95	2.99	1978	26	6.84	1987	.61+	1986	9.8	6.4	1.9	.6	.85	1.14	1.59	1.98	2.36	2.76	3.20	3.72	4.40	5.47	6.47
May	4.00	3.95	3.75	1973	28	8.02	1971	.87	2000	12.3	8.1	2.7	1.0	1.56	1.93	2.46	2.89	3.31	3.73	4.18	4.71	5.38	6.41	7.35
Jun	3.95	3.57	3.54	1974	28	9.52	1976	.42	1990	11.0	7.1	2.6	1.0	.94	1.31	1.89	2.40	2.91	3.45	4.06	4.78	5.72	7.22	8.62
Jul	3.68	3.31	3.19	1956	9	8.76	1985	.86	1998	12.4	7.3	2.4	1.0	1.19	1.54	2.06	2.49	2.92	3.36	3.84	4.40	5.12	6.24	7.28
Aug	2.83	2.65	3.12	1996	13	7.13	1996	.79	1991	9.9	5.7	2.0	.5	.92	1.18	1.58	1.92	2.24	2.58	2.95	3.38	3.94	4.80	5.60
Sep	3.11	2.87	2.74	1980	4	9.99	1989	.14	1978	9.7	6.0	2.2	.7	.45	.71	1.15	1.58	2.03	2.53	3.10	3.79	4.73	6.27	7.74
Oct	2.93	2.57	2.83	1975	18	7.90	1976	.04	1991	7.6	5.0	1.9	.8	.25	.45	.84	1.24	1.69	2.20	2.81	3.57	4.62	6.39	8.12
Nov	2.55	2.35	2.22	1962	9	6.08	1985	.45	1998	8.5	5.1	1.9	.6	.68	.93	1.30	1.62	1.94	2.27	2.64	3.08	3.65	4.55	5.39
Dec	2.59	2.54	2.25	1993	5	5.12	1993	.68+	1985	8.9	5.5	1.9	.4	.79	1.04	1.40	1.72	2.02	2.34	2.69	3.10	3.63	4.46	5.22
Ann	37.81	37.42	3.75	May 1973	28	9.99	Sep 1989	.04	Oct 1991	119.1	74.2	26.0	8.3	29.11	30.85	33.04	34.69	36.14	37.53	38.96	40.52	42.41	45.11	47.43

+ 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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Station: PULASKI, VA

COOP ID: 446955

Climate Division: VA 6

NWS Call Sign:

Elevation: 1,850 Feet

Lat: 37°03N

Lon: 80°47W

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	2.0	1	#	14.5	1996	7	28.8	1996	25	1996	8	7	1996	1.8	1.2	.6	.2	.1	3.6	1.8	1.1	.5
Feb	6.3	4.5	1	#	17.0	1987	27	21.0	1983	16	1983	11	4	1996	1.5	1.2	.6	.4	.1	2.5	1.3	1.0	.3
Mar	1.2	.0	#	0	10.0	1993	13	10.1	1999	18	1993	14	2	1993	.6	.4	.2	.1	@	.6	.1	.0	.0
Apr	.6	.0	#	0	7.0	1992	4	9.0	1992	9	1992	5	1	1992	.2	.1	.1	@	.0	.1	.1	.1	.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	.1	.0	0	0	1.5	1974	20	1.5	1974	0	0	0	0	0	.1	@	.0	.0	.0	.0	.0	.0	.0
Nov	.4	.0	#	0	6.5	1971	24	7.5	1971	1	1995	13	#+	1999	.3	.1	@	@	.0	@	.0	.0	.0
Dec	2.3	.0	#	0	14.0	1974	1	14.0	1974	8+	1997	31	1	1997	1.0	.8	.3	.2	@	1.1	.5	.3	.0
Ann	16.1	6.5	N/A	N/A	17.0	Feb 1987	27	28.8	Jan 1996	25	Jan 1996	8	7	Jan 1996	5.5	3.8	1.8	.9	.2	7.9	3.8	2.5	.8

+ 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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Station: PULASKI, VA

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Climate Division: VA 6

NWS Call Sign:

Elevation: 1,850 Feet

Lat: 37°03N

Lon: 80°47W

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	6/06	5/31	5/26	5/22	5/19	5/15	5/11	5/07	4/30
32	5/22	5/17	5/12	5/09	5/06	5/02	4/29	4/25	4/19
28	5/02	4/27	4/23	4/20	4/17	4/14	4/11	4/07	4/02
24	4/22	4/16	4/12	4/08	4/05	4/02	3/29	3/25	3/19
20	4/08	4/01	3/28	3/23	3/19	3/16	3/11	3/06	2/28
16	3/27	3/20	3/14	3/10	3/05	3/01	2/25	2/19	2/12
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	9/15	9/19	9/22	9/25	9/28	9/30	10/03	10/07	10/11
32	9/24	9/28	10/01	10/04	10/06	10/08	10/11	10/14	10/18
28	10/06	10/11	10/15	10/18	10/21	10/24	10/27	10/31	11/05
24	10/15	10/21	10/25	10/29	11/01	11/04	11/08	11/12	11/18
20	10/21	10/30	11/05	11/10	11/14	11/19	11/24	11/30	12/08
16	11/10	11/17	11/22	11/26	11/30	12/04	12/08	12/13	12/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	151	144	139	135	131	127	123	118	112
32	176	168	162	157	153	148	143	137	129
28	207	200	195	191	187	182	178	173	166
24	233	225	219	214	209	205	200	194	186
20	273	261	253	246	239	233	226	217	206
16	298	288	280	274	268	263	256	249	239

* 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 6 NWS Call Sign: Elevation: 1,850 Feet Lat: 37°03N Lon: 80°47W

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	1036	857	704	421	188	37	4	9	87	389	643	918	5293
60	881	717	549	276	91	7	0	0	28	254	495	763	4061
57	788	633	460	198	51	2	0	0	11	186	408	670	3407
55	726	577	402	151	32	1	0	0	6	147	353	608	3003
50	582	443	266	64	7	0	0	0	1	72	226	464	2125
32	167	81	17	0	0	0	0	0	0	0	10	89	364

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	154	148	336	569	866	1066	1225	1182	954	640	356	194	7690
55	0	0	7	30	185	376	512	469	270	74	10	0	1933
57	0	0	3	16	142	318	450	407	215	51	5	0	1607
60	0	0	0	5	89	233	357	314	142	26	1	0	1167
65	0	0	0	0	31	113	206	167	51	6	0	0	574
70	0	0	0	0	7	36	83	60	9	0	0	0	195

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	41	70	196	387	645	848	996	958	735	430	194	74	41	111	307	694	1339	2187	3183	4141	4876	5306	5500	5574
45	19	28	106	252	492	698	841	803	585	286	102	36	19	47	153	405	897	1595	2436	3239	3824	4110	4212	4248
50	0	10	52	144	341	548	686	648	436	162	44	9	0	10	62	206	547	1095	1781	2429	2865	3027	3071	3080
55	0	0	19	71	205	402	531	493	293	79	14	0	0	0	19	90	295	697	1228	1721	2014	2093	2107	2107
60	0	0	2	21	100	259	376	339	168	25	0	0	0	0	2	23	123	382	758	1097	1265	1290	1290	1290
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	31	56	142	262	410	557	671	639	473	286	134	50	31	87	229	491	901	1458	2129	2768	3241	3527	3661	3711

(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/normals/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.

- 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/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