

CLIMATOLOGICAL DATA

VIRGINIA SECTION

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GENERAL SUMMARY

Weather conditions during 1936 were slightly warmer and considerably wetter than usual, the mean temperature being 0.2° above normal, and the precipitation exceeding the normal amount by 3.58 inches. This amount of precipitation has been greater only 10 times in the past 46 years.

In temperature, the unusually cold months of January and February, the former being the fourth coldest of record, and the latter being the eighth coldest, were followed by an unusually warm March; and the only other cool months were April and November. Temperatures from May to October averaged above normal, with many record breaking maxima recorded during June and July. Among the stations, temperature averages ranged from 46.7° on Skyline Drive to 60.0° in the Norfolk section; and extremes, from 17° below zero on Skyline to 109° above at Lincoln.

In precipitation, January, March and December were unusually wet months, January exceeding all former records for the month, March ranking fifth, and December fourth greatest in amount of rainfall. Generally dry weather characterized the period from May to August, with the amount for May next to the least of record. Among the stations yearly amounts ranged from about 32 inches at Mount Weather to 64 inches at Pinnacles; and monthly amounts, from a trace in May at Powhatan and Callville to about 12 inches on Skyline in March. The amount of snowfall was eight inches greater than normal, with only four previous years exceeding it.

The principal events of the year were \$1,500,000 damage to the roads by the freezes of January and February; heavy March floods in the James River and the Potomac River, damage from which is now estimated at approximately \$4,000,000; hail and wind damage in June, July and August amounting to \$324,000; and the tropical storm of September entailing a loss of \$1,600,000 in Eastern Virginia.

MONTHLY STATE DATA 1936

Month	Temperature			Precipitation			Number of days			
	Mean	Highest	Lowest	Average	Greatest 24-hour	Average snow-fall	Rainy	Clear	Partly cloudy	Cloudy
January	31.0	72	-17	6.45	8.57	4.8	12	13	6	12
February	32.2	78	-14	3.87	2.15	14.5	9	12	7	10
March	49.2	85	17	5.84	4.75	3.4	12	12	8	11
April	52.2	93	15	3.43	3.15	0.1	10	13	8	9
May	66.2	97	29	1.34	2.44	0.0	5	22	7	2
June	72.1	105	34	3.35	3.62	0.0	5	13	12	6
July	77.1	109	41	4.23	3.40	0.0	11	13	7	6
August	76.4	104	45	3.67	3.75	0.0	9	14	11	6
September	70.5	98	35	3.30	4.60	0.0	7	16	7	7
October	59.5	88	19	3.64	5.98	0.0	7	15	8	7
November	45.0	84	6	1.11	1.45	0.3	5	15	8	7
December	39.4	72	2	5.07	2.93	2.9	13	10	5	16

KILLING FROSTS 1936

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
<i>Tidewater Virginia</i>			<i>Middle Virginia Con't.</i>		
Cape Henry	Mar. 2	Nov. 16	New Canton	Apr. 19	Oct. 28
Christchurch	Apr. 4	Oct. 31	Orange	Apr. 4	Oct. 28
Dahlgren	Apr. 8	Nov. 18	Pinnacles	Apr. 24	Oct. 27
Diamond Springs	Mar. 2	Nov. 17	Quantico	Apr. 8	Oct. 28
Emporia	Mar. 2	Oct. 28	Randolph	Apr. 19	Oct. 28
Holland	Mar. 14	Oct. 31	Rocky Mount	Apr. 19	Oct. 28
Hopewell	Mar. 8	Oct. 31	Stuart	Apr. 20	Oct. 28
Langley Field	Mar. 2	Nov. 16	Washington	Apr. 8	Oct. 27
Norfolk	Feb. 24	Nov. 19	<i>Great Valley</i>		
Onley	Apr. 8	Oct. 28	Berryville		Oct. 27
Richmond	Mar. 8	Oct. 28	Big Meadows	May 14	Oct. 27
Tappahannock	Apr. 25	Oct. 28	Blacksburg	Apr. 24	Oct. 28
Walkerton	Apr. 25	Oct. 28	Buchanan	Apr. 20	Oct. 28
Wallaceton	Apr. 25	Oct. 28	Burkes Garden	May 31	Oct. 28
Williamsburg	Apr. 19	Oct. 28	Catawba Sanatorium	Apr. 23	Oct. 27
<i>Middle Virginia</i>			Clifton Forge	Apr. 20	Oct. 27
Bedford	Apr. 15	Oct. 28	Dale Enterprise	Apr. 23	Oct. 27
Callville	Apr. 25	Oct. 28	Dante	Apr. 23	Oct. 31
Charlottesville	Apr. 8	Oct. 27	Emory	Apr. 24	Oct. 31
Chatham	Apr. 19	Oct. 27	Floyd		Oct. 28
Clarendon	Apr. 8	Oct. 27	Glen Lyn	Apr. 23	Oct. 31
Clarksville	Apr. 19	Oct. 27	Hot Springs	Apr. 23	Oct. 31
Columbia	Apr. 23	Oct. 28	Lexington	Apr. 23	Oct. 31
Culpeper	Apr. 23	Oct. 28	Mendota		Oct. 27
Danville	Apr. 30	Oct. 31	Mountain Lake		Oct. 27
Parnville	Apr. 19	Oct. 28	North River Dam		Oct. 27
Fredericksburg	Apr. 25	Oct. 28	Pennington Gap	Apr. 20	Oct. 31
Halifax	Apr. 8	Oct. 28	Roanoke	Apr. 20	Oct. 28
Kenbridge	Apr. 25	Oct. 28	Saltville	Apr. 20	Oct. 31
Lincoln	Apr. 23	Oct. 27	Sexton Shelter		Oct. 27
Lynchburg	Apr. 23	Oct. 28	Shen'h Camp No. 3		Oct. 27
Manassas	Apr. 27	Oct. 27	Staunton	Apr. 23	Oct. 27
Martinsville		Oct. 28	Timberville	Apr. 23	Oct. 27
Mineral	Apr. 25	Oct. 27	Winchester	Apr. 23	Oct. 27
Mount Weather	Apr. 8	Oct. 28	Woodstock	Apr. 23	Oct. 27
			Wytheville	Apr. 18	Oct. 28

COMPARATIVE ANNUAL DATA FOR THE STATE

Year	Mean temperature	Highest	Lowest	Average precipitation	Average snow-fall	No. of rainy days	No. of clear days	No. of partly cloudy days	No. of cloudy days
NORMALS OR EXTREMES	55.8	109	-29	41.72	17.1	104	162	102	101
1891	55.6	106	-	47.94		95	163	101	102
1892	54.6	106	-8	39.45		103	156	100	109
1893	54.7	104	-26	46.22	22.1	88	162	104	95
1894	56.8	106	-11	35.76	17.0	94	178	103	88
1895	54.4	107	-18	38.23	38.8	94	171	103	88
1896	56.6	105	-10	42.64	12.3	93	163	106	97
1897	56.0	103	-15	39.19	11.8	92	171	99	95
1898	56.6	105	-9	44.71	8.7	108	162	101	102
1899	55.4	106	-29	42.20	36.7	98	176	95	94
1900	57.1	107	-8	39.52	18.6	86	181	91	93
1901	54.5	106	-14	49.99	9.5	100	167	94	104
1902	55.6	108	0	40.67	14.9	95	170	97	98
1903	54.9	105	-13	44.09	8.4	95	172	89	104
1904	53.7	100	-14	36.11	24.9	95	170	101	95
1905	54.9	98	-15	43.27	18.5	111	155	112	98
1906	56.2	102	-2	50.03	15.2	124	143	120	102
1907	54.5	97	-16	44.41	17.4	115	159	115	91
1908	55.5	102	-20	46.17	30.0	110	162	108	96
1909	55.6	102	-5	38.02	12.9	101	171	104	90
1910	54.8	102	-9	41.37	20.3	112	151	116	98
1911	56.8	104	0	41.00	9.2	115	149	110	106
1912	54.9	100	-25	40.88	24.6	103	165	106	95
1913	57.2	102	-3	42.33	4.0	100	178	98	89
1914	55.1	103	-17	36.66	39.8	101	168	100	97
1915	55.6	101	-5	40.03	13.5	97	160	116	89
1916	55.6	102	-11	38.94	18.6	103	165	106	95
1917	53.3	103	-27	40.11	23.7	114	158	107	100
1918	55.5	108	-22	43.48	7.4	105	159	97	109
1919	56.8	103	-16	41.65	7.7	102	161	99	105
1920	54.8	99	-9	45.91	7.1	106	162	89	115
1921	58.4	104	-12	34.94	13.8	97	161	102	102
1922	56.9	100	-13	45.15	24.8	110	145	107	113
1923	56.1	103	-1	40.90	10.3	104	168	96	101
1924	54.4	107	-12	47.34	12.8	105	165	90	111
1925	56.6	103	-14	32.53	9.5	98	160	99	106
1926	55.6	107	-6	41.41	16.5	112	157	97	111
1927	56.6	104	-7	41.64	10.4	113	148	108	114
1928	55.7	103	-5	43.07	9.2	110	151	112	103
1929	56.2	99	-8	46.31	16.7	115	155	97	113
1930	56.9	109	-13	24.99	23.4	86	165	99	101
1931	57.8	104	-2	38.00	3.7	105	163	106	96
1932	57.5	108	-9	44.68	13.1	102	169	90	107
1933	57.6	104	-7	39.46	8.2	105	163	101	101
1934	56.2	107	-16	45.73	21.6	113	157	104	104
1935	55.4	101	-16	46.68	21.9	119	150	103	112
1936	56.0	109	-17	45.30	25.1	108	169	95	102

Climatological Data for the Year 1936

Table with columns: Stations, Counties, Elevation, Temperature (Fahrenheit), Precipitation, Sky, and Prevailing direction of wind. Includes sub-sections for Tidewater Virginia, Middle Virginia, and The Great Valley.

Section and State averages are computed from monthly means.

All other records are used in determining section and division means, but the mean departures from normal temperature and precipitation are based only on records from stations that have 10 or more years of observation.

Reference letters, a, b, c, appearing in the tables indicate number of days missing: for example, b represents two days, etc.

*Also on other dates: †Interpolated. ‡Partially interpolated.

§Post-office addresses of these stations are as follows: Diamond Springs, Norfolk; Lincoln, Furellville; Mount Weather, Bluemont.

T. Precipitation is less than 0.01 inch rain or snow. Departures in temperature and precipitation corrected to agree with new normals completed in March.

Monthly and Annual Precipitation for the Year 1936 with Departures from the Normal

Table with columns for Stations, months (January-December), and Annual. Rows are categorized by region: Tidewater, Middle Virginia, and Great Valley. Each station entry includes precipitation and departure values for each month and the annual total.

NOTE.—In this publication, annual means are computed from data for all stations; whereas, in monthly reports, means may not include all stations, as in some cases reports are not received in time to be included in the computations.

Monthly and Annual Mean Temperatures for the Year 1936 with Departures from the Normal

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual			
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure		
<i>Tidewater</i>																												
Cape Henry	36.8	-3.4	35.4	-5.8	51.6	+5.0	54.6	0.0	66.0	+1.8	73.0	+0.1	78.6	+1.1	78.8	+1.9	73.5	+1.7	64.8	+2.7	50.3	-1.8	45.6	+1.9	59.1	+0.4		
Christchurch	34.2	-6.9	33.5	-9.1	52.2	+5.6	53.6	-2.0	67.0	+2.4	73.4	-0.1	78.8	+1.0	78.2	+1.8	72.6	+0.4	62.2	+2.4	49.9	-2.0	45.3	+1.0	58.2	-0.4		
Dahlgren	31.0	-5.3	29.9	-8.6	50.2	+4.8	52.2	-1.9	66.6	+4.1	72.7	+0.3	77.4	+0.7	78.0	+3.6	71.9	+1.8	60.6	+2.6	46.2	-1.1	40.2	+1.4	56.4	+0.2		
Diamond Springs	39.0	-4.3	37.6	-6.1	54.3	+4.5	56.1	-1.7	67.4	+1.6	71.7	-2.0	78.4	+0.8	78.3	+1.7	74.4	+2.0	65.6	+2.9	51.8	-0.4	45.4	+1.1	60.0	0.0		
Holland	36.4	-5.2	35.6	-6.4	53.4	+5.5	55.5	-0.8	66.8	+1.6	72.8	-0.2	77.8	+0.8	77.4	+1.8	72.1	+0.8	62.1	+2.8	48.9	-1.0	44.4	+0.8	58.6	+0.8		
Hopewell	34.1	-5.8	36.0	-4.8	54.2	+5.2	55.6	-1.7	67.0	+2.6	76.0	+0.7	80.4	+1.7	79.0	+1.8	74.0	+1.9	62.2	+2.3	49.2	-0.3	42.2	+1.3	59.4	+0.4		
Langley Field	34.8	-6.1	34.6	-6.4	52.4	+4.7	54.4	-1.7	67.0	+1.1	73.0	-1.2	78.4	0.0	78.8	+1.4	73.3	+1.5	63.1	+1.6	48.2	-2.1	43.9	+1.7	58.5	-0.5		
Norfolk	37.4	-3.2	37.0	-5.7	53.8	+5.6	55.9	-0.9	67.9	+1.7	74.0	-0.4	79.1	+0.4	79.6	+2.2	73.6	+2.0	66.0	+2.5	50.4	-1.0	46.2	+3.1	60.0	+0.5		
Onley	34.8	-4.4	33.0	-7.7	50.1	+4.5	53.8	-1.2	65.4	+2.2	72.4	-0.3	78.6	+0.8	77.1	+1.5	71.5	+0.6	61.3	+0.9	47.1	-3.3	42.8	+1.0	57.3	-0.4		
Richmond	33.0	-4.9	34.6	-5.0	52.4	+5.2	54.0	-2.6	68.6	+2.1	74.2	+0.1	79.9	+1.4	79.0	+2.5	73.6	+3.1	61.8	+2.2	47.6	-0.7	41.4	+1.6	58.3	+0.4		
Tappahannock	31.0	-6.0	32.7	-6.4	50.7	+4.0	54.0	-1.1	65.8	+2.1	73.0	-0.2	78.4	+0.8	78.6	+1.6	72.4	+1.1	61.8	+2.2	47.5	-1.0	39.7	+2.0	57.0	+0.8		
Walkerton	32.7	-5.3	32.9	-6.0	49.6	+4.5	50.2	-1.1	63.8	+1.6	70.5	-0.6	77.2	+0.8	76.6	+1.3	71.6	+1.0	60.8	+1.0	45.9	-1.0	40.2	+1.8	56.0	+0.4		
Williamsburg	34.7	-5.7	35.3	-5.8	54.1	+5.6	55.6	-1.4	68.8	+3.6	74.6	+1.8	79.7	+2.7	78.8	+3.1	73.0	+3.1	63.0	+2.6	49.2	+0.2	43.8	+2.6	59.2	+1.0		
Means	34.6	-5.0	34.3	-6.5	52.2	+5.1	54.2	-1.5	67.0	+2.3	73.2	-0.1	78.7	+1.1	78.3	+2.2	72.9	+1.8	62.6	+2.3	48.6	-1.3	43.0	+1.7	58.3	+0.2		
<i>Middle Virginia</i>																												
Callville	31.8	-7.2	34.0	-5.5	51.1	+3.0	52.4	-3.7	67.0	+1.5	73.6	+0.6	78.2	+1.1	77.6	+1.9	72.6	+2.3	60.4	+1.2	48.6	+0.2	41.8	+1.5	57.4	-0.3		
Charlottesville (near)	30.2	-6.2	32.2	-5.2	51.2	+4.9	52.8	-3.1	69.6	+3.9	74.0	+1.4	78.8	+2.3	78.6	+3.8	72.0	+2.5	60.4	+1.8	45.6	-0.3	38.8	+0.5	57.0	+0.3		
Chatham	32.5	-7.5	34.8	-8.3	51.1	+4.1	53.1	-3.2	67.0	+1.3	72.8	-1.3	78.0	0.0	78.2	+0.6	72.1	+0.9	61.8	+4.0	47.4	-0.4	41.2	-0.7	57.3	-0.9		
Clarksville	29.6	-8.0	31.7	-9.3	50.2	+2.6	52.5	-4.0	68.7	+3.4	74.1	+0.6	79.8	+2.8	78.2	+3.0	71.4	+1.1	60.9	+2.5	44.2	-2.3	37.5	-1.7	56.6	-0.8		
Columbia	31.4	-5.6	32.0	-5.6	51.4	+4.9	53.8	-1.3	68.2	+3.5	74.0	+2.0	79.4	+3.5	78.6	+4.1	71.9	+3.2	59.3	+1.9	45.8	-0.7	39.1	+1.1	57.1	+0.9		
Culpeper	29.6	-4.9	30.0	-6.6	51.1	+6.2	52.9	-1.5	67.0	+3.2	72.2	+0.8	77.2	+1.9	77.6	+4.3	70.5	+2.7	59.5	+3.4	45.2	-0.6	38.4	+2.6	55.9	+1.0		
Danville	34.6	-5.5	36.8	-6.7	53.0	+3.0	55.5	-3.2	70.1	+2.8	75.2	-0.8	80.8	+1.3	79.4	+1.7	73.6	+0.7	62.0	+1.0	45.6	-1.2	41.5	-0.4	59.3	-0.6		
Farmville	31.4	-7.5	34.0	-3.5	52.2	+6.0	53.6	-1.6	66.0	+0.6	74.0	-0.6	80.9	+1.4	78.5	+1.5	71.8	+0.4	60.7	+1.7	47.1	-0.1	40.4	+1.6	57.6	0.0		
Fredericksburg (near)	31.4	-5.3	29.4	-7.9	51.3	+4.7	52.9	-2.5	66.6	+1.7	73.2	+1.0	78.2	+1.6	77.8	+3.0	72.0	+2.5	59.9	+1.9	45.6	-1.7	39.3	+1.4	56.5	+0.1		
Kenbridge	30.9	-6.0	33.2	-6.0	55.6	+4.8	54.2	-0.8	67.8	+1.8	72.8	+0.8	77.9	+1.1	77.0	+1.1	71.4	+0.9	59.8	+1.1	48.0	-0.9	40.4	+0.8	57.4	+0.4		
Lincoln	29.0	-4.0	28.0	-6.0	48.6	+4.8	51.8	-1.6	67.1	+3.2	72.4	+0.8	80.0	+2.5	79.4	+5.2	71.8	+3.0	60.4	+3.3	44.5	-0.9	37.8	+3.2	55.9	+1.2		
Lynchburg	32.4	-5.1	34.6	-5.8	51.4	+4.1	54.0	-3.8	68.9	+1.6	73.6	-0.1	79.8	+2.3	77.8	+2.2	71.6	+2.6	60.8	+2.3	46.2	-1.0	40.9	+1.4	57.7	+0.1		
Mineral (near)	30.6	-4.6	30.7	-7.5	51.5	+6.5	53.2	-4.0	65.4	+3.0	71.4	+1.2	76.3	+1.5	76.4	+3.0	70.5	+2.4	57.8	+3.0	45.0	-0.5	37.6	+0.4	55.5	+0.6		
Mount Weather	23.3	-7.3	24.6	-6.3	48.6	+9.4	47.0	-2.2	63.2	+3.9	69.6	+2.7	73.4	+2.2	74.8	+5.4	68.1	+3.4	56.0	+2.3	41.0	-1.1	34.0	+1.5	52.0	+1.2		
New Canton	32.0	-5.3	32.6	-5.5	51.4	+4.4	53.7	-1.5	66.4	+1.8	72.6	+0.7	78.1	+2.0	77.4	+3.6	71.2	+2.2	59.7	+2.3	46.4	-0.3	39.8	+1.5	56.8	+0.5		
Quantico	30.4	-4.6	28.6	-6.7	50.4	+5.3	52.2	-1.9	65.6	+1.6	72.6	+0.5	77.0	0.0	77.1	+2.9	70.8	+2.1	59.4	+2.0	45.0	-0.3	38.5	+2.2	55.6	+0.2		
Rocky Mount	31.8	-5.9	32.7	-6.1	50.0	+3.1	51.6	-4.1	67.4	+2.7	73.0	+1.1	79.9	+4.9	77.0	+3.4	71.3	+2.6	60.6	+3.7	46.2	-1.2	40.2	+1.5	56.5	+0.5		
Stuart	34.5	-5.9	36.8	-5.1	51.5	+5.1	54.2	-1.9	69.1	+4.1	75.2	+2.9	79.4	+3.4	76.1	+2.0	71.0	+0.8	59.6	+1.6	45.8	-2.2	41.9	+0.2	57.9	+1.4		
Washington, D. C.	30.6	-2.8	29.6	-5.8	50.3	+7.7	52.2	-1.1	67.4	+3.2	73.8	+0.6	78.4	+1.7	77.9	+2.9	71.4	+3.3	59.7	+2.3	45.0	-0.2	39.8	+3.2	56.3	+0.3		
Means	30.9	-5.7	31.9	-6.3	51.2	+5.0	52.8	-2.3	67.3	+2.6	73.1	+0.7	78.5	+2.1	77.5	+3.0	71.4	+2.2	59.9	+2.3	45.9	-0.9	39.4	+1.1	56.6	+0.3		
<i>Great Valley</i>																												
Big Meadows	21.6	-8.2	24.6	-6.2	41.2	+4.2	42.6	-5.8	58.2	+2.2	62.2	+0.8	66.8	+1.1	65.6	+3.4	59.4	+2.8	48.5	+2.1	35.7	-1.1	33.8	+1.8	46.7	+0.8		
Blacksburg	29.4	-3.9	33.0	-1.2	47.0	+4.3	51.5	+0.7	64.4	+4.6	70.3	+2.7	74.7	+3.7	74.2	+4.3	68.4	+3.8	56.6	+3.2	42.5	-0.1	36.4	+1.8	54.0	+2.0		
Buchanan	32.7	-3.7	34.8	-5.8	50.3	+3.0	53.4	-2.4	67.0	+2.4	72.4	+0.2	78.3	+2.3	77.8	+3.5	71.2	+1.3	60.7	+2.3	45.7	-0.9	39.0	+0.4	56.9	+0.2		
Burkes Garden	27.8	-4.2	29.6	-2.6	43.0	+2.8	47.1	-0.9	59.5	+2.6	65.6	+1.9	70.0	+3.1	69.4	+3.6	63.6	+3.1	53.6	+3.3	38.7	-1.5	34.6	+1.9	50.2	+1.1		
Catawba Sanatorium	30.6	-5.8	33.2	-5.7	49.2	+4.3	52.0	-2.1	65.1	+2.7	70.2	+0.6	75.6	+2.9	74.6	+3.0	68.7	+2.0	59.2	+2.5	43.1	-2.7	39.0	+1.2	55.0	+0.2		
Dale Enterprise	28.6	-4.6	29.6	-5.0	46.4	+3.7	50.8	-1.8	65.4	+3.1	71.0	+1.2	76.2	+2.5	75.6	+3.6	69.0	+2.0	57.8	+2.3	43.2	-0.7	35.9	+0.7	54.1	+0.6		
Damascus	31.0	-4.3	33.0	-4.6	46.7	+3.8	52.2	-0.8	64.0	+1.8	71.4	+0.8	76.2	+1.8	75.4	+3.0	73.8	+2.1	61.6	+2.1	43.4	-0.8	38.6	+0.8	55.6	+0.1		
Dante	31.0	-4.7	33.4	-6.0	45.9	+0.8	50.1	-4.0	65.5	+4.4	72.1	+3.2	73.6	+1.8	74.4	+3.4	69.1	+1.9	57.8	+1.7	42.9	-2.2	41.2	+2.9	54.8	+0.3		
Emory	30.6	-4.3	32.9	-4.6	46.6	+3.0	52.0	-0.8	64.4	+1.8	71.6	+0.8	75.0	+1.0	74.6	+3.1	68.4	+2.1	58.9	+1.9	43.1	-0.8	39.5	+0.8	54.8	+0.2		
Floyd	26.2	-8.0																										