

CLIMATOLOGICAL DATA

VIRGINIA SECTION

S. S. SCHWORM

GENERAL SUMMARY

Temperatures in Virginia in 1945 averaged 0.5° above the 55 year mean, and the annual precipitation showed an excess of 5.28 inches. The number of clear days was approximately normal but there were fewer partly cloudy and more cloudy days than usual. Only two years, 1906 and 1937, had more days with precipitation. The annual snowfall was slightly subnormal.

January, May, August, and December were noticeably colder than normal; February, March, April, September, and November were above normal. March was only 0.1° cooler than the extremely hot March of 1921 which continues the highest of record.

It was the seventh wettest year in a 55 year record. The rainfall for July, 1945 was greater than any other July, and September was exceeded only by that of 1944. March, August, and October were somewhat drier than usual.

From an agricultural viewpoint the year was only fair. The warm weather in March caused fruit to bloom unusually early and the frosts and freezes in early April destroyed 80 to 85 percent of the apples, peaches, and pears. Small grains did well although some damage occurred during the torrential rains in July. Corn made an excellent crop. Tobacco did well, but peanuts and cotton were only fair. As a whole truck crops were fair to good although canning tomatoes were heavily damaged by the July rains. Hay crops were remarkably good but considerable difficulty was encountered in curing and storing the hay because of frequent rains and scarcity of labor.

On June 2d a severe hail storm in Alexandria and vicinity broke more than 4500 windows and damaged practically every roof. The total damage was estimated to exceed \$100,000. All small streams in the eastern half of the State were put out of their banks by the tremendous rains of July 14-18th and the resulting damage to crops, highways, bridges, railroads, and dams amounted to more than \$1,500,000. Three persons lost their lives in Richmond when a flood-weakened bridge over Gilles Creek collapsed with a loaded bus. On July 5th lightning struck a huge cannery at Cheriton and caused over \$1,000,00 damage. Scattered hail and electric storms during July caused other damage amounting to \$35,000. Hail and windstorms in Clarke and Frederick counties on August 30th entailed losses to crops and property estimated at \$115,000. A tropical storm passed through Virginia on September 18th. Wind damage was negligible but heavy rains caused minor floods in most of the State and severe floods in a few small streams in the south-central counties. The total damage was estimated at \$40,000.

In December highway traffic was hampered by frequent and rather heavy snowfall with some sleet and glaze to further aggravate the hazardous conditions.

S. B. T.

MONTHLY STATE DATA 1945

Month	Temperature				Precipitation				Number of days			
	Mean	Departure from the normal	Highest	Lowest	Average	Departure from the normal	Greatest 24-hour	Average snow-fall	With 0.01 in. or more of precip.	Clear	Partly cloudy	Cloudy
January	33.3	-3.1	66	-2	2.42	-0.82	2.00	3.1	10	11	7	13
February	39.5	+2.2	81	-4	3.54	+0.46	2.36	1.4	10	12	5	11
March	55.8	+10.0	93	17	1.77	-1.90	1.70	0.1	8	15	8	8
April	58.3	+3.7	92	15	3.01	-0.28	2.45	T.	10	13	8	9
May	61.3	-3.0	92	26	4.28	+0.59	4.00	T.	12	14	9	8
June	72.1	+0.2	105	28	3.53	-0.63	5.31	0.0	9	15	9	6
July	74.6	-0.2	103	41	8.71	+4.01	5.72	0.0	14	9	12	10
August	73.1	-1.0	98	33	3.04	-1.39	3.02	0.0	8	16	9	6
September	71.5	+0.9	98	40	7.37	+4.15	5.14	0.0	12	11	9	10
October	56.6	-0.8	92	21	1.42	-1.56	2.91	0.0	6	20	5	6
November	48.5	+1.9	84	9	3.43	+0.99	2.74	0.3	9	13	6	11
December	32.2	-5.7	66	-2	4.73	+1.65	2.28	8.7	12	10	6	15

KILLING FROSTS 1945

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
<i>Tidewater Virginia</i>					
Assateague Beach	Feb. 20	Nov. 24	Charlottesville	Apr. 7	Nov. 5
Cape Henry	Feb. 20	Nov. 24	Chatham	Apr. 7	Oct. 14
Capron	May 2	Oct. 16	Clarendon	May 2	Oct. 4
Cheriton	Apr. 7	Nov. 24	Clarksville	Apr. 8	Oct. 16
Dahlgren	Apr. 7	Nov. 5	Columbia	Apr. 7	Oct. 14
Diamond Springs	Feb. 20	Nov. 16	Crozet	May 2	Nov. 5
Driver	Feb. 21	Nov. 16	Culpeper	May 2	Nov. 5
Emporia	Apr. 7	Nov. 5	Danville	Apr. 7	Oct. 16
Hog Island	Feb. 21	Nov. 21	Elkwood	May 5	Oct. 4
Holland	Apr. 7	Oct. 16	Farmville	Apr. 7	Oct. 16
Hopewell	Apr. 7	Oct. 16	Fredericksburg	May 2	Oct. 27
Langley Field	Mar. 9	Nov. 24	Fredericksburg	June 6	Oct. 14
New Church	May 2	Oct. 4	Halifax	Apr. 7	Oct. 12
Norfolk	Feb. 20	Nov. 24	Lawrenceville	Apr. 7	Oct. 12
Onley	Apr. 7	Oct. 16	Leesburg	May 2	Oct. 4
Petersburg	Apr. 7	Oct. 15	Lincoln	May 2	Oct. 4
Princess Anne	Apr. 7	Oct. 16	Louisa	May 2	Oct. 14
Richmond	Apr. 7	Nov. 5	Lynchburg	Apr. 7	Nov. 5
Saluda	Apr. 8	Oct. 16	Manassas	May 2	Oct. 15
Smithfield	May 2	Nov. 16	Martinsville	Apr. 7	Nov. 5
Suffolk	Oct. 16	Nov. 16	Mount Weather	May 2	Oct. 12
Surry	Apr. 7	Oct. 15	New Canton	May 2	Oct. 16
Urbanna	Apr. 7	Oct. 16	Orange	May 2	Oct. 4
Walkerton	May 2	Oct. 16	Pinnacles	May 11	Oct. 10
Wallaceton	Mar. 14	Nov. 16	Quantico	May 2	Nov. 5
Warsaw	May 2	Nov. 5	Rocky Mount	Apr. 7	Oct. 14
Williamsburg	May 2	Oct. 16	State Farm	Apr. 7	Nov. 5
<i>Middle Virginia</i>					
Bedford	Apr. 8	Oct. 14	Stuart	Apr. 7	Oct. 14
Blackstone	Apr. 7	Oct. 11	Vienna	May 2	Nov. 5
			Waterford	Mar. 11	Oct. 10
			Washington, D. C.	Mar. 5	Nov. 5

(Killing Frost Data Continued on Page 52)

COMPARATIVE ANNUAL DATA FOR THE STATE

Year	Mean temperature	Highest	Lowest	Average precipitation	Average snow-fall	No. of days 0.01 inch or more of precipitation	No. of clear days	No. of partly cloudy days	No. of cloudy days
1891	55.6	106	-8	47.94	95	163	101	102
1892	54.6	106	-8	39.45	103	156	100	109
1893	54.7	104	-26	46.22	23.1	88	166	104	95
1894	56.8	106	-11	35.76	17.0	94	174	103	88
1895	54.4	107	-18	38.23	38.8	93	163	106	97
1896	56.6	105	-10	42.64	12.3	92	171	99	95
1897	56.0	103	-15	39.19	11.8	106	162	101	102
1898	56.6	105	-9	44.71	8.7	98	176	95	94
1899	55.4	106	-29	42.20	36.7	86	181	91	93
1900	57.1	110	8	39.52	18.6	95	170	97	98
1901	54.5	106	-14	49.99	9.5	100	167	94	104
1902	55.6	108	0	40.67	14.9	95	172	89	104
1903	54.9	105	-13	44.09	8.4	95	170	101	95
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	-12	44.41	17.4	115	159	115	91
1908	56.2	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	24.7	105	159	97	109
1919	56.8	103	-16	41.65	7.4	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	55.5	107	-6	41.41	16.5	112	157	97	111
1927	56.5	104	-7	41.64	10.4	113	148	103	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	108
1931	57.8	104	-7	38.00	3.7	105	163	106	96
1932	57.5	103	-9	44.68	13.1	102	169	90	107
1933	57.7	104	-7	38.46	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
1937	55.7	102	-3	58.20	14.7	126	155	99	111
1938	57.0	101	-3	42.21	9.1	113	169	89	107
1939	57.2	101	-1	41.26	15.9	106	176	91	98
1940	54.3	105	-20	44.59	22.7	112	159	96	111
1941	56.8	102	-2	30.81	10.7	86	190	93	82
1942	56.4	106	-14	48.59	16.6	115	164	94	107
1943	56.2	104	-8	35.92	12.9	100	180	96	89
1944	56.0	106	-2	44.94	12.3	107	165	97	104
1945	56.4	105	-4	47.25	13.6	120	159	93	113
NORMALS OR EXTREMES	55.9	110	-29	41.97	16.7	104	163	101	101

Monthly and Annual Precipitation and Departures for the Year 1945 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 two columns for each month: Precipitation and Departure.

NOTE.—In this publication, annual means are computed from data for all stations; except those in supplemental table; whereas, in monthly reports, means may not include all stations, as in some cases reports are not received in time to be used in the computations. All means include the interpolated values. Figures interpolated.

Monthly and Annual Mean Temperatures for the Year 1945 with Departures from the Normal

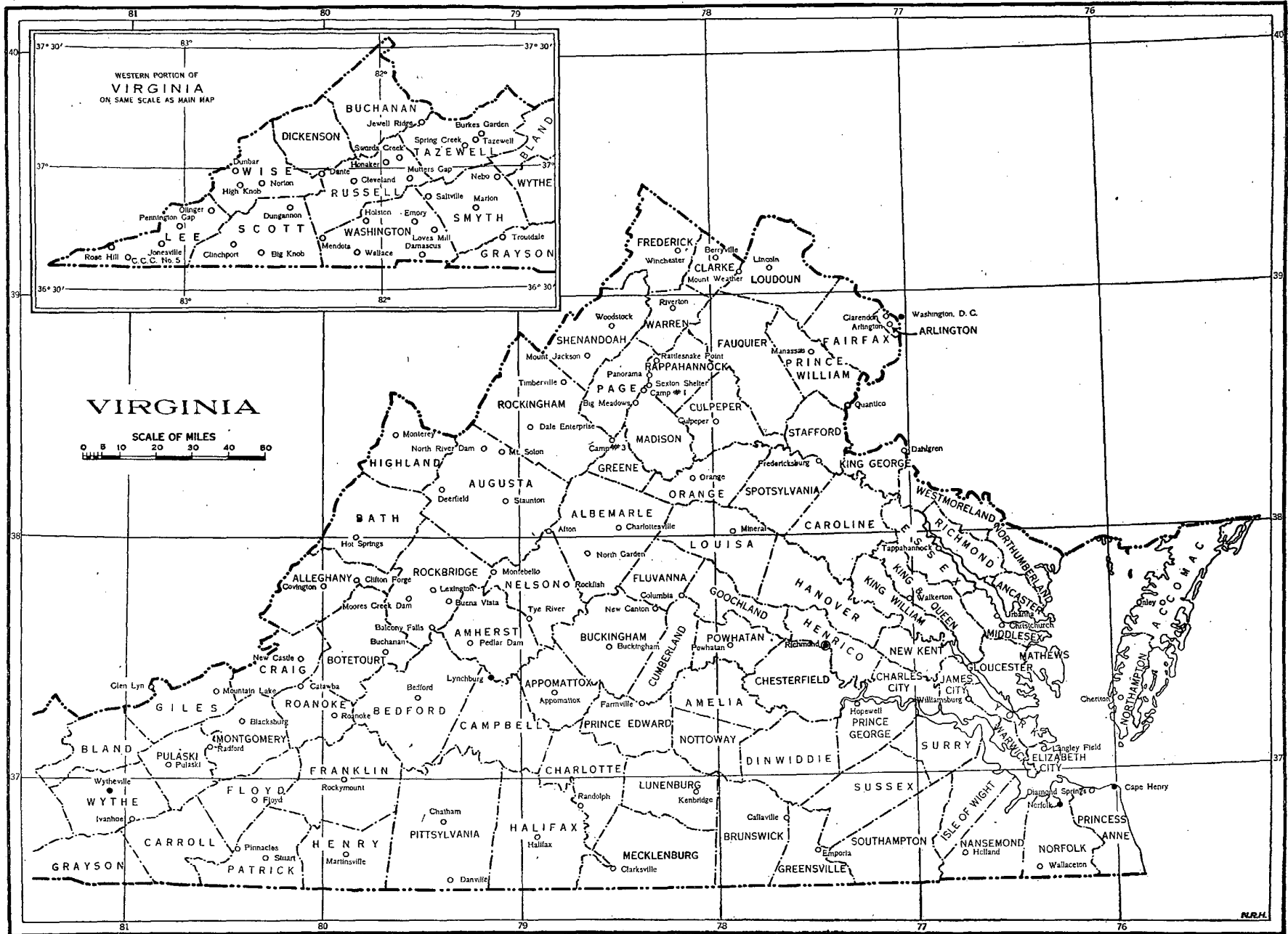
Table with columns for Stations, months (January-December), and Annual. Rows are categorized by region: Tidewater, Middle Virginia, and Great Valley. Each row lists a station and its corresponding temperature and departure values for each month and the annual average.

For explanation of reference marks, see page 50.

KILLING FROSTS 1945-Continued

Table with columns for Stations, Last in spring, First in autumn, and Stations. Rows list various stations and their corresponding dates for the last spring frost and the first autumn frost.

CHART SHOWING LOCATION OF OBSERVATION STATIONS



N.R.H.