

CLIMATOLOGICAL DATA

F. N. HIBBARD

GENERAL SUMMARY

Virginia weather in 1941 was warmer and much drier than usual. In the past 51 years the average temperature was higher nine times; the average precipitation was less only once, in 1930. The number of days with measurable precipitation equalled the low record of 86 days. There were nine more clear days and six fewer cloudy days than in any previous year.

In temperature April and October were much warmer than usual, with October the warmest of record, and April the second warmest. New maxima for October were recorded at nearly all stations. Two heat waves in May brought new maxima for that month to about half of the stations. March, 1941, was the third coldest of record.

In precipitation, amounts were deficient for all months except June, July, and December. While July was the second wettest of record, distribution was uneven, and the Tidewater division had less than normal; in fact, the Tidewater division was deficient every month of the year. The number of days with rain in July equalled the record, fourteen. May was the second driest of record. The average snowfall for the first three months of 1941 was about normal, but only two stations had measurable amounts during the remaining nine months.

Favorable conditions in April gave pastures and early crops a good start, which was off-set by the dryness and hot days in May. All crops suffered from the drought, particularly pastures, hay, potatoes, truck, and late corn. Peaches and apples were slightly affected. Tobacco matured early and was somewhat undersized, but seemed to be of good quality. Locally heavy rains in July brought temporary relief from the drought to many sections, and made the corn crop nearly normal in scattered areas. After the middle of August water shortage became acute and this continued thereafter. Springs, wells, and small streams dried up. The general rains of December brought a measure of relief but water supplies were still subnormal at the end of the year.

There were no floods during the year and destructive storms were limited to small areas. On August 12th, a series of violent wind and electric storms occurred at many points in eastern Virginia. On this date a tornado at Petersburg caused the death of one man, and damaged property to the extent of more than \$50,000. —S.B.T.

MONTHLY STATE DATA 1941

Month	Temperature				Precipitation				Number of days			
	Mean	Departure from normal	Highest	Lowest	Average	Departure from normal	Greatest 24-hour	Average snow-fall	With 0.01 in. or more of precip.	Clear	Partly cloudy	Cloudy
January	35.6	-0.8	71	1	2.20	-1.09	1.59	1.9	9	12	6	13
February	33.4	-3.8	65	0	1.10	-1.99	1.38	2.7	5	15	7	8
March	39.9	-5.8	74	-2	2.26	-1.39	1.84	5.9	15	15	6	7
April	58.6	+4.1	95	22	3.03	-0.32	2.15	0.0	7	17	3	6
May	66.0	+1.9	101	25	1.09	-2.57	2.21	0.0	5	21	3	3
June	71.6	-0.1	102	40	4.26	+0.07	2.62	0.0	13	11	10	9
July	76.2	+0.8	102	40	6.91	+2.26	4.15	0.0	14	11	11	9
August	74.6	+0.5	101	38	2.69	-1.75	2.89	0.0	7	18	9	4
September	71.1	+2.5	101	31	1.36	-1.69	2.60	0.0	4	20	9	3
October	63.9	+6.5	101	22	1.12	-1.83	2.35	0.0	5	17	8	6
November	48.6	+2.0	82	9	1.29	-1.14	1.58	T.	5	19	6	5
December	42.0	+3.8	78	8	3.50	+0.45	2.69	T.	7	15	8	8

KILLING FROSTS 1941

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
Cape Henry	Mar. 22	Nov. 11	New Canton	Apr. 3	Nov. 11
Capron	Mar. 31	Nov. 3	Orange	May 6	Oct. 12
Cheriton	Apr. 9	Nov. 11	Pinnacles	May 4	Oct. 26
Christchurch	Mar. 31	Nov. 9	Powhatan	Mar. 31	Oct. 29
Dahlgren	Mar. 30	Nov. 13	Quantico	Apr. 30	Oct. 17
Diamond Springs	Apr. 8	Nov. 13	Randolph	Apr. 3	Oct. 24
Emporia	Apr. 7	Nov. 9	Rocky Mount	Mar. 30	Oct. 30
Holland	Apr. 9	Nov. 9	State Farm	Apr. 3	Nov. 9
Hopewell	Mar. 31	Nov. 11	Stuart	Mar. 30	Nov. 9
Langley Field	Mar. 30	Nov. 11	Washington	Mar. 30	Oct. 26
New Church		Oct. 16	Berryville		Oct. 16
Norfolk	Mar. 30	Dec. 15	Big Meadows	May 25	Oct. 17
Onley	Apr. 9	Nov. 12	Blacksburg	May 14	Oct. 12
Richmond	Mar. 31	Nov. 9	Buchanan	May 12	Oct. 29
Surry		Nov. 2	Burkes Garden	May 14	Oct. 12
Walkerton	Apr. 9	Oct. 26	Catawba Sanatorium	Apr. 8	Oct. 29
Wallaceton	Mar. 31	Nov. 19	Clifton Forge	Apr. 27	Oct. 29
Warsaw	Apr. 9	Oct. 25	Dale Enterprise	Apr. 3	Oct. 12
Williamsburg	Apr. 9	Nov. 9	Damascus	Apr. 14	Oct. 26
Bedford	Apr. 3	Oct. 29	Dante	Apr. 3	Oct. 11
Calla Ville	Mar. 31	Nov. 9	Deerfield	Apr. 25	Oct. 12
Charlottesville	Apr. 30	Oct. 29	Floyd	Apr. 3	Oct. 29
Chatham	Apr. 3	Nov. 9	Glen Lyn	May 13	Oct. 25
Clarendon	Mar. 31	Oct. 27	Hot Springs	May 13	Oct. 29
Clarkeville	Mar. 31	Nov. 3	Ivanhoe	May 4	Oct. 9
Columbia	Mar. 30	Oct. 29	Lexington	May 12	Oct. 12
Culpeper	Mar. 31	Oct. 29	Mendota	May 14	Oct. 25
Cumberland	Apr. 3	Nov. 11	Monterey	May 25	Oct. 12
Danville	Mar. 30	Nov. 12	Moores Creek Dam	Apr. 2	Oct. 29
Elkwood	May 13	Oct. 12	Mountain Lake	May 25	Oct. 11
Farmville	Apr. 3	Nov. 9	North River Dam	Apr. 8	Oct. 12
Fredericksburg	Mar. 31	Oct. 26	Pennington Gap	Mar. 30	Nov. 11
Halifax	Apr. 3	Nov. 9	Radford	Apr. 3	Oct. 12
Kenbridge	Mar. 31	Nov. 11	Ranoke	Apr. 3	Oct. 29
Lincoln	May 3	Oct. 26	Saltville	May 14	Oct. 12
Louisia	Apr. 9	Nov. 4	Staunton	Apr. 3	Oct. 16
Lynchburg	Mar. 30	Nov. 10	Timberville	Mar. 16	Oct. 26
Manassas	Apr. 9	Oct. 17	Winchester	Apr. 3	Oct. 17
Martinsville	Apr. 3	Nov. 9	Woodstock	Apr. 3	Oct. 29
Mount Weather	Apr. 3	Oct. 26	Wytheville	Apr. 3	Oct. 29

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
NORMALS OR EXTREMES	55.8	109	29	42.01	17.0	104	162	101	102
1891	55.6	106	8	47.94	95	163	101	102
1892	54.6	106	-8	39.45	95	163	101	102
1893	54.7	104	-26	46.22	23.1	103	156	100	109
1894	56.8	106	-11	35.76	17.0	88	166	104	95
1895	54.4	107	-18	38.23	38.8	94	174	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	99	104
1904	53.7	109	-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	-10	46.17	30.0	110	162	108	95
1909	55.6	102	-5	38.02	12.9	101	171	104	90
1910	54.8	102	-9	41.37	20.3	132	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	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	46.88	21.9	119	150	103	112
1936	56.0	109	-17	45.90	25.1	108	169	95	102
1937	55.7	102	-3	53.20	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

Climatological Data for the Year 1941

Table with columns: Stations, Counties, Elevation, Temperature (Annual mean, Highest, Date, Lowest, Date), Precipitation (Total for year, Greatest monthly, Month, Least monthly, Month, Total snowfall), Sky (Number of rainy days, Number of clear days, Number of partly cloudy days, Number of cloudy days), Prevailing direction of wind. Includes sections for Tidewater Virginia, Middle Virginia, and The Great Valley.

Section and State averages are computed from monthly means. 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. † Precipitation is less than 0.01 inch rain or snow. * Also on other dates. † Interpolated. †† Post-office addresses of these stations are as follows: Diamond Springs, Norfolk; Lincoln, Purcellville; Mount Weather, Bluemont; Wallaceton, Hickory; Pinnacles, Meadows of Dan; Balcovy Falls, Glasgow; Big Meadows, Luray; Moores Creek Dam, Lexington; North River Dam, Staunton.

Monthly and Annual Precipitation for the Year 1941 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; 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.

Monthly and Annual Mean Temperatures for the Year 1941 with Departures from the Normal

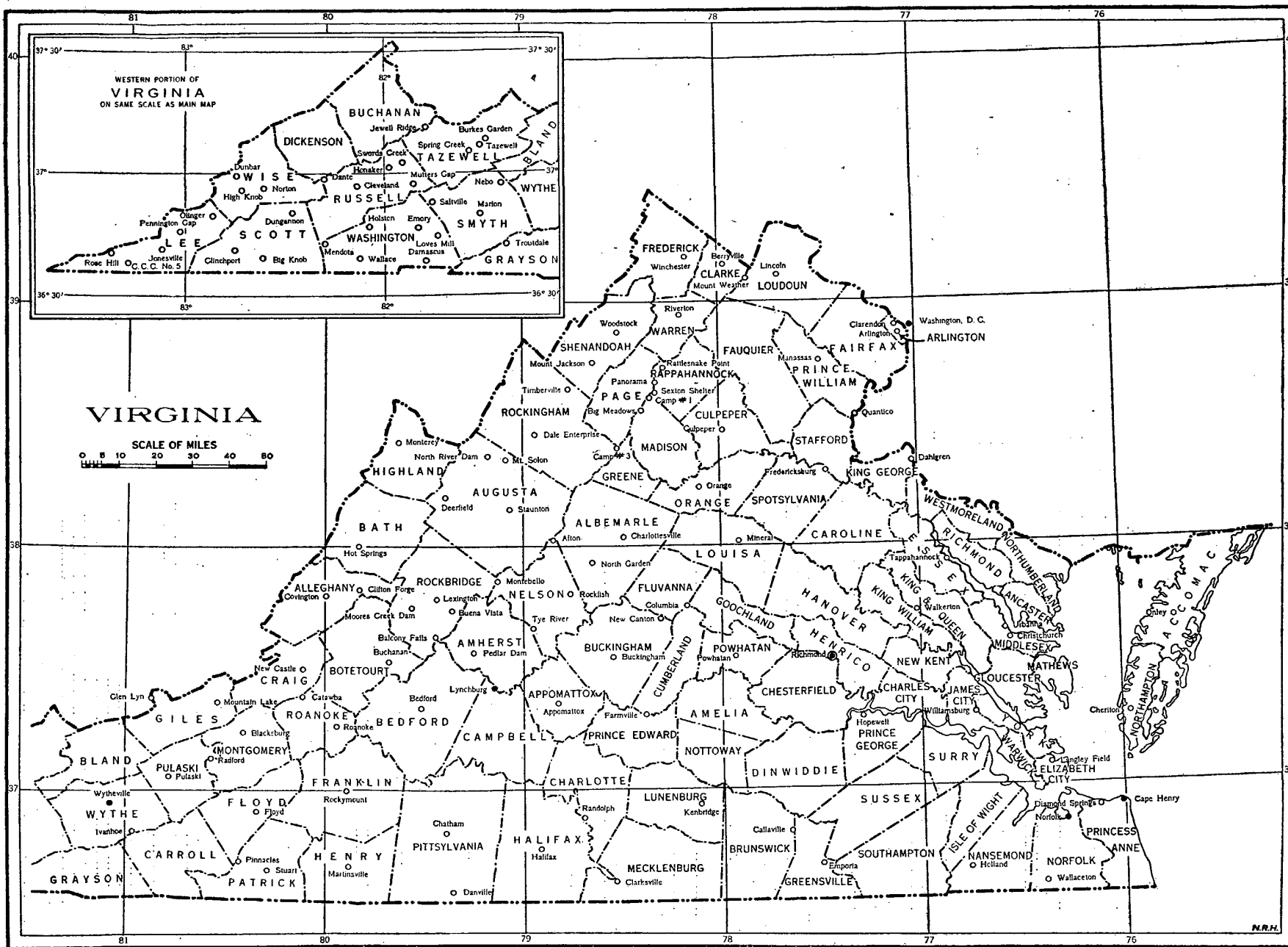
Table with columns for Stations, months (January-December), and Annual, each with Temperature and Departure sub-columns. Rows include Tidewater, Middle Virginia, Great Valley, and State.

For explanation of reference marks, see page 50

ERRATA

December, 1941, page 46.—Change the mean temperature and the departure from the normal of the following stations to read: Dahlgren, 42.4°, +3.6°; Dale Enterprise, 40.4°, +5.2°; Dante, 39.5°, +1.2°; Mt. Weather, 36.3, +3.8°; Wytheville, 41.2°, +5.9°.

CHART SHOWING LOCATION OF OBSERVATION STATIONS



(WBO, Richmond, Va.—3-10-42-1, 350)