

CLIMATOLOGICAL DATA

38

VIRGINIA SECTION

F. N. HIBBARD

VOL. L

RICHMOND, VA., YEAR 1940

No. 13

GENERAL SUMMARY

Virginia weather in 1940 was cooler and wetter than usual. The average temperature was lower in only 1904 and 1917; and precipitation was greater in only 15 years of the past 50.

In temperature, June, November and December were warmer than usual, with December ranking fourth warmest of record. January was the coldest month of record for the State, and during that month new low record readings were established for at least eight stations. Average temperatures ranged from 58.9° at Diamond Springs to 44.6° at Mountain Lake; and departures for the year ranged from +0.2° at Clarksville to -3.6° at Christchurch.

In precipitation, amounts were deficient in all except April, May, July and August. The August rainfall was the second greatest of record, and new records for 24-hour amounts were established at 14 stations south of a line from Hopewell to Bedford. Yearly amounts for individual stations ranged from 32.5 inches at Christchurch to 66.6 inches at Pinnacles; and departures ranged from -13.3 inches at Christchurch to +15.9 inches at Roanoke. Heavy snow in January, particularly in east-central counties, was next to the greatest of record, and it brought the yearly total of snow up to the 12th greatest of record.

A cold, wet spring delayed plowing and planting to some extent and by the end of April all crops were two to three weeks late. Temperatures returned to near normal during May and all crops made rapid advance. During the heavy rains of August northern and Valley crops were benefited, but most lowland crops in south-central and southern counties were destroyed, especially lespedeza, alfalfa and shocked oats. Killing frosts over the State during October brought the growing season to an end.

The principal events of the year were the heavy snows of January followed by record low temperatures, which entailed a loss of \$500,000 for removing snow and repairing broken pavements, and a loss of life of at least a dozen persons; scattered hail storms from May to August approximating \$60,000; and the record floods of August in the James, Meherrin, Roanoke and Blackwater Rivers entailing damage variously estimated from \$3,000,000 to \$5,000,000.

MONTHLY STATE DATA 1940

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	25.0	-11.5	64	-20	2.46	-0.85	3.02	18.3	6	15	6	10
February	37.3	0.0	70	-4	2.62	-0.51	1.79	1.8	10	10	6	13
March	42.3	-3.5	83	-1	2.58	-1.10	1.71	1.6	9	13	8	10
April	52.2	-2.2	88	9	4.34	+0.98	3.00	0.6	11	11	8	11
May	63.4	-0.7	96	26	4.43	+0.72	4.44	T.	11	13	9	9
June	72.9	+1.2	98	35	3.87	+0.32	2.44	0.0	12	12	12	6
July	74.3	-1.1	105	39	5.16	+0.56	4.46	0.0	11	13	10	8
August	72.7	-1.4	95	42	9.19	+4.71	8.27	0.0	14	7	11	13
September	65.3	-3.3	96	27	1.57	-0.51	2.05	0.0	4	21	6	3
October	55.9	-1.4	88	23	1.65	-1.33	2.10	0.6	6	18	6	7
November	47.1	+0.5	83	11	4.27	+1.81	2.54	0.2	9	14	6	10
December	42.7	+4.6	74	-6	2.45	-0.59	1.65	0.1	9	13	6	12

KILLING FROSTS 1940

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
Cape Henry	Mar. 26	Nov. 17	Pinnacles	May 5	Sept. 27
Capron	Apr. 15	Oct. 19	Powhatan	Apr. 13	Oct. 21
Cheriton	Apr. 14	Oct. 21	Quantico	Apr. 23	Oct. 21
Christchurch	Apr. 14	Oct. 20	Randolph	Apr. 14	Oct. 19
Dahlgren	Apr. 13	Oct. 21	Rockymount	Apr. 13	Nov. 9
Diamond Springs	Apr. 13	Oct. 21	State Farm	Apr. 29	Oct. 21
Emporia	Apr. 22	Oct. 18	Stuart	Apr. 13	Nov. 9
Holland	Apr. 23	Oct. 21	Washington	Apr. 13	Nov. 26
Hopewell	Apr. 13	Oct. 21	Afton	May 5	.....
Langley Field	Apr. 13	Oct. 21	Big Meadows	May 4	.....
Norfolk	Apr. 13	Oct. 21	Blacksburg	May 5	Sept. 27
Onley	Apr. 13	Oct. 21	Buchanan	Apr. 14	Nov. 9
Richmond	Apr. 13	Oct. 21	Burkes Garden	May 12	Sept. 27
Tappahannock	Apr. 14	Oct. 21	Catawba Sanatorium	Apr. 15	Nov. 8
Walkerton	Apr. 29	Oct. 19	Clifton Forge	.....	Oct. 22
Wallaceton	Apr. 23	Oct. 19	Dale Enterprise	May 5	Nov. 9
Williamsburg	Apr. 14	Oct. 21	Damascus	Apr. 13	Nov. 7
Bedford	Apr. 28	Oct. 22	Dante	May 12	Nov. 9
Callaville	Apr. 29	Oct. 19	Deerfield	May 11	Sept. 26
Charlottesville	Apr. 14	Oct. 20	Emory	May 4	Oct. 21
Chatham	Apr. 14	Oct. 21	Floyd	May 5	Sept. 26
Clarendon	Apr. 15	Oct. 21	Gert Lynn	Apr. 28	Nov. 9
Clarksville	Apr. 28	Oct. 21	Hert Springs	Apr. 27	Oct. 22
Columbia	Apr. 27	Oct. 21	Ivanhoe	May 6	Sept. 27
Culpeper	Apr. 14	Sept. 26	Lexington	Apr. 14	Oct. 22
Cumberland	Apr. 12	Sept. 26	Mendota	May 5	Nov. 7
Danville	Apr. 13	Oct. 21	Monterey	May 8	Sept. 26
Elkwood	.....	Sept. 27	Moore's Creek Dam	Apr. 28	Oct. 22
Farmville	Apr. 14	Oct. 19	Mountain Lake	May 12	Oct. 13
Fredericksburg	Apr. 25	Oct. 19	North River Dam	Apr. 20	Sept. 26
Halifax	Apr. 14	Oct. 21	Pennington Gap	Apr. 14	Nov. 7
Kenbridge	Apr. 14	Oct. 20	Radford	May 18	Nov. 9
Lincoln	Apr. 25	Oct. 21	Roanoke	Apr. 14	Sept. 27
Lynchburg	Apr. 14	Oct. 21	Saltville	May 5	Oct. 31
Manassas	Apr. 29	Sept. 27	Sexton Shelter	May 4	.....
Martinsville	Apr. 14	Oct. 21	Staunton	Apr. 29	Nov. 9
Mineral	Apr. 25	Sept. 27	Timberville	Apr. 13	Sept. 27
Mount Weather	Apr. 25	Sept. 27	Winchester	Apr. 23	Oct. 19
New Canton	Apr. 14	Oct. 21	Woodstock	Apr. 14	Oct. 19
Orange	Apr. 29	Oct. 21	Wytheville	Apr. 28	Sept. 27

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	.....	98	166	104	95
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	-1.8	39.52	13.6	86	181	91	96
1901	54.5	106	-1	49.59	18.5	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	45.27	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	114	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	105	106	96
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	158	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	9.2	110	148	103	114
1928	55.7	103	-5	43.07	19.4	113	151	112	103
1929	56.7	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
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

Climatological Data for the Year 1940

Stations	Counties	Elevation, feet	Temperature, degrees Fahrenheit						Precipitation							Sky					
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month	Total snowfall	Number of rainy days	Number of clear days	Number of partly cloudy days	Number of cloudy days	Prevailing direction of wind	
<i>Tidewater Virginia</i>																					
Cape Henry	Princess Anne	16	67	57.6	96	June 24†	16	Jan. 27	67	36.61	7.25	Aug.	0.81	June	14.6	120	130	116	120	n.	
Capron	Southampton	100	1	57.3	102	July 27	-5	Jan. 29	1	47.76	17.52	Aug.	1.51	Oct.	20.8	107	143	128	95	w.	
Cheriton	Northampton	11	4	57.6	102	July 27	9	Jan. 29	4	37.88	5.86	Nov.	1.47	Dec.	15.0	95	207	151	n.w.		
Christ Church	Middlesex	107	16	55.0	99	July 27	-5	Jan. 29	17	32.54	5.59	July	0.96	Sept.	26.0	79	159	79	n.		
Dahlgren	King George	18	21	55.0	98	July 28	6	Jan. 28†	21	37.82	6.06	Apr.	1.58	Sept.	41.6	133	98	96	n.		
Diamond Springs††	Princess Anne	35	32	58.9	105	July 27	10	Jan. 27	32	38.89	8.78	Aug.	1.17	Dec.	18.0	135	153	108	n.e.		
Emporia	Greensville	80	8	56.8	102	July 27	-3	Jan. 28	10	49.68	14.40	Aug.	0.70	Oct.	28.9	97	232	63	w.		
Holland	Nansemond	80	8	56.8	102	July 27	-3	Jan. 28	8	44.29	13.79	Aug.	1.03	Oct.	17.0	82	199	65	102	sw.	
Hopewell	Prince George	40	49	57.6	100	July 27	-5	Jan. 26†	53	47.11	12.92	Aug.	1.38	Sept.	23.2	167	94	161	111	sw.	
Langley Field	Elizabeth City	9	56	57.3	103	July 27	5	Jan. 27	104	43.48	9.49	Aug.	0.74	June	12.8	117	113	140	113	n.	
Norfolk	Norfolk	11	70	58.8	104	July 27	11	Jan. 27	70	40.49	10.14	Aug.	1.10	Oct.	19.4	117	107	94	165	n.	
Onley	Accoanac	40	22	56.4	100	July 27	2	Jan. 29	23	44.41	6.86	Apr.	1.74	Sept.	23.7	108	163	132	71	n.w.	
Richmond	Henrico	162	61	56.4	99	July 27	2	Jan. 26	69	45.92	11.08	Aug.	1.55	Sept.	25.7	122	135	97	134	sw.	
Tappahannock	Essex	25	10	55.7	102	July 27	-12	Jan. 29	10	35.22	5.23	Aug.	1.27	July	.....	.....	.....	.....	.....	s.
Walkerton	King and Queen	35	7	55.7	101	July 27†	-15	Jan. 27	8	39.83	5.97	Aug.	2.15	Sept.	32.9	126	155	114	97	n.e.	
Wallaceton	Norfolk	25	7	55.7	101	July 27†	-15	Jan. 27	15	41.70	7.66	Aug.	0.39	Oct.	13.9	114	211	83	72	sw.	
Williamsburg	James City	70	46	57.8	101	July 27	0	Jan. 27†	40	42.63	7.38	July	1.46	June	26.5	104	186	79	101	sw.	
Means and extremes				56.9	105	July 27	-15	Jan. 27	.....	41.53	17.52	Aug.	0.39	Oct.	21.9	108	155	98	113	n.
<i>Middle Virginia</i>																					
Bedford	Bedford	950	1	55.7	99	July 27	4	Jan. 26†	27	49.43	12.85	Aug.	0.77	Oct.	18.6	126	147	137	82	n.w.	
Callaville	Brunswick	250	46	56.4	104	July 27	-11	Jan. 28	46	54.38	16.58	Aug.	1.70	Oct.	23.0	85	200	95	71	e.	
Charlottesville (near)	Albemarle	854	48	54.8	97	July 27†	4	Jan. 27	65	46.79	6.73	July	1.56	Sept.	32.7	116	133	106	127	n.w.	
Chatham	Pittsylvania	852	18	55.7	100	July 27	-4	Jan. 27	19	45.00	12.22	Aug.	0.84	Oct.	25.0	106	185	64	117	w.	
Clarendon	Arlington	225	16	56.2	98	July 27	4	Jan. 27	16	40.90	5.92	July	0.69	June	24.7	109	171	72	123	s.	
Clarksville	Mecklenburg	286	22	57.6	101	July 27	-5	Jan. 29	50	51.57	15.78	Aug.	0.90	Sept.	23.7	114	126	129	111	w.	
Columbia	Fluvanna	220	39	54.9	99	July 27†	-14	Jan. 29	43	47.85	8.67	Aug.	1.01	Sept.	35.8	129	181	66	119	s.	
Culpeper	Culpeper	475	32	54.7	101	July 26†	-7	Jan. 26	34	49.18	7.67	July	1.72	Sept.	21.8	108	252	27	87	s.	
Dauville	Pittsylvania	564	24	57.7	103	July 27	-6	Jan. 28	50	41.16	10.27	Aug.	0.53	Sept.	26.0	116	138	116	112	w.	
Elkwood	Culpeper	250	19	55.6	99	July 27†	-16	Jan. 26†	21	49.39	12.33	Aug.	0.62	Oct.	30.0	107	144	104	118	sw.	
Farmville	Prince Edward	450	19	55.6	99	July 27	-16	Jan. 26†	21	49.39	12.33	Aug.	0.62	Oct.	30.0	107	144	104	118	sw.	
Fredericksburg (near)	Spottsylvania	75	47	54.1	100	July 27†	-2	Jan. 26	49	40.84	6.11	Apr.	1.56	Dec.	35.0	130	161	111	94	n.	
Halifax	Halifax	425	10	52.70	93	July 27	4	Jan. 27	10	42.70	13.64	Aug.	0.71	Sept.	24.5	94	157	97	112	w.	
Kenbridge	Lunenburg	500	9	56.7	101	July 27	-9	Jan. 29	9	48.26	13.57	Aug.	0.56	Sept.	35.0	84	183	74	109	sw.	
Lincolnton	Loudoun	500	39	53.8	101	July 27†	4	Jan. 29	40	45.44	5.89	Aug.	2.02	June	25.5	109	166	79	121	s.	
Lynchburg	Campbell	631	69	56.5	101	July 28	5	Jan. 29	69	41.91	9.72	Aug.	0.91	Oct.	19.4	127	128	110	128	n.w.	
Manassas (near)	Henry	176	3	56.2	98	July 28	4	Jan. 27	24	36.72	6.70	Apr.	0.38	June	27.5	110	143	110	113	n.w.	
Martinsville	Henry	1,014	3	56.2	98	July 28	4	Jan. 27	30	52.71	11.09	Aug.	0.40	Sept.	14.1	123	203	107	56	s.	
Mineral (near)	Louis	250	25	53.1	97	July 26†	-20	Jan. 27	25	43.38	6.51	July	1.76	Sept.	.....	.....	.....	.....	.....	.....
Mount Weather ††	Loudoun	1,725	36	48.6	92	July 27	-5	Jan. 20†	37	42.75	7.07	Aug.	1.08	Jan.	21.5	89	39	163	224	w.	
New Canton	Buckingham	1,900	45	54.6	96	July 27	-15	Jan. 26	47	46.54	7.39	Aug.	0.93	Sept.	36.9	117	176	94	96	sw.	
Orange	Orange	514	34	55.71	7.05	Aug.	1.10	Sept.	31.2	94	224	66	76	w.							
Pinnacles	Patrick	2,820	7	66.58	17.51	Aug.	1.42	Sept.	17.5	105	179	77	110	n.w.							
Powhatan	Powhatan	390	18	49.29	9.94	Aug.	1.02	Sept.	27.9	148	198	63	105	sw.							
Quantico	Prince William	22	40	54.0	100	July 28	-3	Jan. 26	36	41.46	6.68	Apr.	0.91	Sept.	31.6	129	92	114	160	n.	
Randolph	Charlottesville	334	36	42.03	8.62	Aug.	0.63	Oct.	30.5	103	164	92	110	sw.							
Rocky Mount	Franklin	1,132	44	55.4	98	July 26†	1	Jan. 29	47	50.98	10.40	Aug.	1.03	Oct.	13.0	99	231	33	102	n.e.	
Stuart	Patrick	1,500	18	55.2	95	July 26†	5	Jan. 27	18	52.73	12.69	Aug.	0.48	Sept.	10.0	92	159	112	95	sw.	
Washington, D. C.	Patrick	72	70	54.8	100	July 27	7	Jan. 29	70	40.21	6.19	Apr.	0.86	June	22.0	116	106	120	140	n.w.	
Means and extremes				55.0	104	July 27	-20	Jan. 27	.....	46.43	17.51	Aug.	0.40	Sept.	25.3	111	162	92	112	w.
<i>The Great Valley</i>																					
Afton	Nelson	1,750	10	48.15	11.83	Aug.	1.34	Oct.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Balcony Falls	Rockbridge	725	10	50.63	13.43	Aug.	0.70	Oct.	19.5	103	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Big Meadows	Madison	3,500	6	45.3	87	Sept. 9	-8	Jan. 19†	6	46.97	7.43	May	1.83	Jan.	27.4
Blacksburg	Montgomery	2,100	49	51.9	94	July 27	1	Jan. 27	49	41.30	9.19	Aug.	0.60	Oct.	14.3	127	119	93	154	w.	
Buchanan	Botetourt	875	23	54.4	98	July 26†	-5	Jan. 26	40	50.64	12.66	Aug.	1.00	Oct.	17.0	114	119	162	85	w.	
Burkes Garden	Tazewell	3,250	44	48.2	89	July 26†	-14	Jan. 29	46	39.21	7.01	Aug.	0.78	Sept.	37.3	135	172	90	104	w.	
Catawba Sanatorium	Roanoke	2,100	30	52.2	93	July 26†	-1	Jan. 26	30	50.14	14.94	Aug.	0.96	Oct.	22.0	121	184	118	64	n.w.	
Clifton Forge	Alleghany	1,655	17	42.04	8.66	Aug.	0.00	Sept.	18.0	87	162	101	103	w.							
Clinchport	Scott	1,300	43	37.17	6.83	Aug.	1.10	Sept.	20.7	115	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dale Enterprise	Rockingham	1,350	59	51.6	93	July 26	-11	Jan. 27	61	40.57	6.83	Aug.	1.26	Sept.	16.7	109	173	104	89	s.	
Damascus	Washington	1,628	24	42.21	8.47	July	1.33	Jan.	22.4	142	129	128	109	w.							
Dante	Russell	2,600	23	51.8	92	July 28	-11	Jan. 28	24	40.27	8.86	Aug.	0.87	Sept.	23.7	142	125	169	132	sw.	
Deerfield	Augusta	2,600	15	52.5	96	June 4	-14	Jan. 29	14	49.13	9.97	June	1.16	Oct.	14.8	110	166	141	59	sw.	
Emory	Washington	2,112	15	52.5	96	June 4	-14	Jan. 29	16	41.87	9.70	Aug.	0.57	Sept.	23.9	137	141	118	107	w.	
Floyd	Floyd	2,600	8	51.0	92	July 26	0	Jan. 25	8	55.35	15.59	Aug									

Monthly and Annual Precipitation for the Year 1940 with Departures from the Normal

Table with columns for Stations, months (January-December), and Annual. Each month has two sub-columns: Precipitation and Departure. Rows are grouped by region: Tidewater, Middle Virginia, and Great Valley. Includes a Means row at the bottom.

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 included in the computations. All means include the interpolated values.

Monthly and Annual Mean Temperatures for the Year 1940 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	31.1	-9.1	39.8	-1.4	44.4	-2.2	52.6	-2.0	64.2	0.0	75.6	+2.7	76.6	-0.9	76.4	-0.5	70.4	-1.4	69.4	-2.7	52.4	+0.3	47.8	+4.1	57.6	-1.1		
Capron	29.0		41.8		47.6		55.6		66.2		76.6		76.3		75.4		67.2		57.0		49.8		44.8		57.3			
Cheriton	30.6		40.6		44.7		52.3		65.1		76.8		77.9		76.2		69.5		58.2		51.8		47.0		57.6			
Christchurch	25.0	-16.1	38.2	-4.4	43.6	-3.0	51.6	-4.0	63.9	-0.7	73.8	+0.3	75.5	-2.3	74.3	-2.1	66.0	-6.2	56.0	-3.8	48.6	-2.3	44.0	+1.7	55.0	-3.6		
Dahlgren	25.3	-11.0	37.0	-1.5	41.4	-4.0	50.8	-3.3	64.8	+2.3	74.0	+1.6	76.4	-0.3	74.0	-0.4	68.0	-2.1	55.9	-1.9	48.6	+1.3	43.6	+4.8	55.0	-1.2		
Diamond Springs	31.8	-11.5	42.0	-1.7	47.3	-2.5	55.4	-2.4	66.1	+0.3	78.0	+1.3	78.2	+0.6	77.0	+0.4	69.3	-2.6	59.5	-3.2	52.8	+0.6	48.4	+4.1	58.9	-1.1		
Holland	29.2		40.7		45.6		53.6		64.6		75.2		76.3		75.4		66.8		57.0		50.4		46.6		56.8			
Hopewell	28.0	-11.9	41.0	+0.2	47.2	-1.8	55.8	-1.5	67.0	-0.6	76.5	+1.2	77.0	-1.7	76.6	-0.6	68.6	-2.6	58.4	-1.5	49.8	+0.3	45.6	+4.7	57.6	-1.4		
Langley Field	27.5	-13.4	39.4	-1.6	45.4	-2.3	53.2	-2.9	65.9	0.0	76.8		78.0	-0.4	76.5	-0.9	69.0	-1.9	57.9	-3.6	51.3	+1.0	46.4	+4.2	57.3	-1.7		
Norfolk	31.0	-9.6	42.4	-0.3	46.8	-1.4	55.2	-1.6	66.4	+0.2	76.9	+2.2	78.6	-0.1	76.8	-0.6	70.4	-1.2	59.8	-2.7	52.6	+1.4	48.4	+5.8	58.8	-0.7		
Onley	28.7	-10.5	39.9	-1.7	43.2	-2.4	51.9	-2.5	64.3	+1.6	74.8	+2.1	76.8	-1.0	75.0	-0.6	67.4	-3.5	56.8	-3.6	51.1	+0.5	46.8	+5.0	56.4	-1.3		
Richmond	27.3	-10.6	39.9	+0.3	44.6	-2.6	53.6	-3.0	66.0	-0.5	75.4	+1.3	76.6	-1.9	74.4	-2.1	67.8	-2.7	57.8	-1.8	49.5	+1.2	44.4	+4.6	56.4	-1.5		
Tappahannock	24.6		36.0		43.0		52.2		66.8		76.4		78.3		76.2		66.9		55.4		48.6		43.9		55.7			
Walkerton	24.0		38.1		44.0		52.5		65.7		75.6		77.1		74.8		66.8		57.2		48.6		43.8		55.7			
Williamsburg	29.4	-11.0	41.0	-0.1	46.8	-1.7	55.4	-1.6	66.9	+1.7	76.0	+3.8	77.1	+0.1	76.2	+0.5	68.4	-1.5	58.6	-1.7	50.4	+1.4	46.4	+5.2	57.8	-0.4		
Means	28.2	-11.5	39.8	-1.2	45.0	-2.4	53.4	-2.5	65.6	+0.4	75.9	+2.2	77.1	-0.8	75.7	-0.7	68.2	-2.8	57.7	-2.6	50.4	+0.6	45.9	+4.4	56.9	-1.4		
<i>Middle Virginia</i>																												
Bedford	27.2		39.8		43.7		54.3		64.7		74.0		74.4		73.0		66.2		57.8		48.8		44.0		55.7			
Callville	26.5	-12.5	39.9	+0.4	45.8	-2.3	54.6	-1.5	65.0	-0.5	75.2	+2.2	75.6	-1.5	75.2	-0.5	67.4	-2.9	57.2	-2.0	48.6	+0.2	45.2	+4.9	56.4	-1.3		
Charlottesville (near)	24.8	-11.6	37.3	+0.4	42.0	-4.3	52.8	-3.1	65.2	-0.5	73.4	+0.5	75.9	-0.6	72.2	-2.6	67.4	-2.1	56.8	-1.8	47.2	-0.7	42.4	+4.1	54.8	-1.9		
Chatham	27.0	-13.0	39.4	-3.7	44.6	-2.4	54.8	-1.5	65.4	-0.3	74.8	+0.7	75.0	-3.0	74.0	-1.6	67.0	-4.2	57.0	-0.8	47.3	-0.5	41.9	0.0	55.7	-2.5		
Clarksville	26.8	-9.0	41.0	0.0	46.0	-1.6	56.6	+0.1	66.2	+0.9	76.7	+3.2	78.6	-0.4	76.8	+1.6	68.8	-1.5	58.6	+0.3	49.9	+2.9	45.9	+6.7	57.6	+0.2		
Columbia	24.3	-12.7	36.4	-1.2	43.3	-3.2	53.7	-1.4	65.8	+1.1	74.7	+2.7	75.4	-0.5	74.0	-0.5	65.4	-3.3	55.4	-2.0	47.8	+1.3	42.8	+4.8	54.9	-1.3		
Culpeper	24.0	-10.5	36.1	-0.5	42.1	-2.8	52.0	-2.4	66.0	+2.2	74.7	+3.3	77.0	+1.7	73.6	+0.3	66.4	-1.4	55.6	-0.5	47.6	+2.9	41.6	+5.8	54.7	-0.2		
Danville	29.2	-10.9	41.0	-2.5	45.6	-4.2	57.3	-1.4	67.0	-0.3	75.8	-0.2	76.5	-3.0	75.8	-1.9	68.8	-4.1	59.8	-1.2	50.3	+0.5	45.6	+3.7	57.7	-2.2		
Elkwood									66.4		73.2		74.4		72.3		63.9		54.6		46.9		40.7					
Farmville	26.0	-12.9	38.6	+1.1	44.5	-1.7	53.6	-1.6	64.8	-1.8	75.2	+0.6	75.0	-4.5	74.0	-3.0	66.6	-4.8	56.8	-2.2	48.4	+1.4	43.4	+4.6	55.6	-2.0		
Fredericksburg (near)	23.6	-13.1	36.8	-0.5	41.3	-5.3	51.0	-4.4	63.9	-1.0	73.6	+1.4	75.6	-1.0	73.0	-1.8	65.0	-4.5	56.2	-1.8	47.4	+0.1	42.2	+4.3	54.1	-2.3		
Kenbridge	28.4		41.0		45.6		54.6		65.7		75.5		76.6		75.2		67.0		58.0		49.2		44.0		56.7			
Lincoln	23.6	-9.4	35.6	+1.6	39.6	-4.2	50.0	-3.4	64.0	+0.1	74.0	+2.4	77.6	+1.1	73.2	-1.0	65.4	-3.4	55.4	-1.7	45.9	+0.5	41.0	+6.4	53.8	-0.9		
Lynchburg	28.2	-9.3	40.4	0.0	44.6	-2.7	54.4	-2.9	66.4	-0.9	75.4	+0.8	76.2	-1.3	73.6	-2.0	67.4	-1.6	57.9	-0.6	49.3	+2.1	44.0	+4.5	56.5	-1.1		
Martinsville	27.8		39.9		44.8		56.2		65.5		75.0		75.4		73.7		66.8		57.8		48.4		43.6		56.2			
Mineral (near)	22.4	-12.8	35.7	-2.5	40.8	-4.2	51.0	-2.6	64.0	+1.6	72.8	+2.6	73.4	-1.4	71.8	-1.6	64.8	-3.3	53.6	-1.9	45.7	+0.2	41.6	+4.4	53.1	-1.8		
Mount Weather	16.2	-14.4	29.6	-1.3	36.5	-2.7	44.4	-4.8	58.8	-0.5	68.6	+1.7	71.8	+0.6	67.8	-1.6	63.1	-1.6	51.4	-2.3	40.0	-2.1	34.9	+2.4	48.6	-2.2		
New Canton	24.8	-12.5	38.2	+0.1	43.4	-3.6	52.8	-2.4	64.5	-0.1	73.8	+1.9	73.9	-2.2	72.7	-1.1	64.6	-4.4	56.0	-1.4	48.2	+1.5	42.6	+4.9	54.6	-1.7		
Quantico	23.9	-11.1	36.2	+0.9	40.8	-4.3	50.8	-4.1	63.8	-0.2	73.6	+1.5	76.7	-0.3	73.0	-1.2	65.6	-3.1	55.0	-2.4	47.8	+2.5	41.2	+4.9	54.0	-1.4		
Rocky Mount	27.0	-10.7	38.8	0.0	43.1	-3.8	53.0	-2.7	65.0	+0.3	73.7	+1.8	73.2	-1.8	73.9	+0.3	67.2	-1.5	57.6	+0.7	47.8	+0.4	44.8	+6.1	55.4	-0.9		
Stuart	27.7	-12.7	39.8	-2.1	42.4	-4.0	53.0	-1.1	64.4	+0.6	72.6	+0.3	73.2	-2.8	72.4	-1.7	65.6	-4.4	57.0	-1.0	47.8	-0.2	44.2	+6.1	55.2	-2.3		
Washington, D. C.	24.9	-8.5	37.1	+1.7	40.7	-1.9	50.8	-2.5	64.4	+0.7	74.8	+2.6	77.5	+0.7	73.4	-1.6	66.8	-1.3	55.7	-1.7	48.2	+3.0	42.8	+6.2	54.8	-6.2		
Means	25.5	-11.5	38.1	-0.4	42.9	-3.3	53.0	-2.4	64.9	0.0	74.1	+1.7	75.3	-1.1	73.4	-1.2	66.2	-3.0	56.4	-1.4	47.7	+0.9	42.7	+4.5	55.0	-1.4		
<i>Great Valley</i>																												
Big Meadows	15.4		27.4		32.0		42.0		54.2		62.1		65.2		62.5		58.5		48.0		39.2		37.6		45.3			
Blacksburg	23.6	-9.7	35.4	+1.2	40.4	-2.3	51.4	+0.6	59.8	0.0	69.9	+2.3	71.1	+0.1	70.0	+0.1	61.5	-3.1	53.9	+0.5	44.2	+1.6	41.4	+6.8	51.9	-0.1		
Buchanan	24.0	-12.4	38.1	-2.5	43.7	-3.6	53.6	-2.2	63.7	-0.9	72.7	+0.5	74.0	-2.0	72.7	-1.6	65.4	-4.5	57.0	-1.4	46.4	-0.2	41.4	+2.8	54.4	-2.3		
Burkes Garden	19.4	-12.6	32.4	+0.2	37.0	-3.2	48.6	+0.5	55.4	-1.5	65.2	+1.5	66.2	-0.7	66.6	+0.8	57.2	-3.3	50.2	-0.1	40.9	+0.7	39.4	+6.7	48.2	-0.9		
Catawba Sanatorium	23.0	-13.4	35.2	-3.7	39.8	-5.1	50.8	-3.3	61.8	-0.6	70.0	+0.4	71.0	-1.7	69.2	-2.4	63.6	-3.1	55.6	-1.1	45.4	-0.4	41.0	+3.2	52.2	-2.6		
Dale Enterprise	21.8	-11.4	35.2	+0.6	39.9	-2.8	49.4	-2.7	62.0	-0.3	70.2	+0.4	71.6	-2.1	68.8	-3.2	61.8	-5.2	53.6	-1.9	44.9	+1.0	40.6	+5.4	51.6	-1.9		</

Supplemental Table of Monthly and Annual Precipitation for the Year 1940

Stations	Counties	Drainage-basin	Elevation, feet	Length of record, years	January	February	March	April	May	June	July	August	September	October	November	December	Annual
Appomattox	Appomattox	Appomattox	825	3	3.85	3.24	1.78	4.56	2.21	3.97	7.22	12.93	0.67	0.79	4.94	2.38	48.54
Arlington	Arlington	Potomac	10	4	1.56	2.82	3.24	6.40	4.73	0.57	6.49	4.68	1.33	2.20	5.31	2.31	41.74
Assateague Beach	Accomac	Atlantic	10	1	1.12	2.94	2.48	4.56	3.89	0.84	6.34	1.65	2.03	1.87	5.30	1.24	34.26
Augusta Springs	Augusta	North	1,700	1	1.92	1.87	1.73	2.78	7.04	6.09	5.69	13.13	1.28	2.02	3.72	3.27	50.54
Bacon	Fairfax	Potomac	380			2.03	3.17		3.28	1.05	3.75	2.52		2.42		1.86	
Bastian	Bland	New	2,255					3.82	2.76	3.04		5.62	1.98	0.97	1.88	1.58	
Big Knob	Scott	Tennessee	3,200	6	2.16	2.94	3.78	3.05	1.11	1.98	5.28	8.23	1.18	1.03	1.48	1.56	33.78
Bremo Bluff	Fluvanna	James	225	1	1.92	2.54	2.77	5.04	2.85	3.88	6.77	7.83	0.98	1.26	5.28	2.17	43.29
Buena Vista	Rockbridge	do	835	4	2.39	2.45	1.63	3.28	5.56	4.89	3.54	9.11	0.78	0.79	3.65	3.00	41.07
CCC Camp No. 1	Madison	Shenandoah	3,400	6	2.79	2.82	3.08	4.57	7.92	3.91	3.79						
Camp F-13	Rockbridge	James					2.02	3.94				17.54	1.03	0.98	4.28	0.82	
Camp NF-18 (Oronoco)	Amherst	do	1,300				2.24	5.09	7.54		4.80	12.26	0.69	1.33	4.51	3.61	
Camp P-21 (Newcaste)	Craig	do	1,500				2.88	4.74	4.50	10.24	0.76	1.02	3.00	3.00	3.13		
Churchville	Augusta	Shenandoah	1,475		1.62			2.88	7.06	7.14	1.07	1.73	3.85	3.26			
Cleveland	Russell	Tennessee	1,525	5	1.20	2.95	3.59	2.81	2.52	6.14	6.08	10.25	1.18	1.19	1.20	1.44	40.55
Copper Hill	Floyd	Roanoke					5.02	7.73	1.91	6.17	21.07	1.28	1.36	3.91	2.27		
Covington	Allegheny	Jackson	1,245	4	1.96	2.08	1.42	3.86	5.27	4.65	3.62	4.09	1.24	0.92	2.57	1.74	32.42
Crewe	Nottoway	Nottoway	450					4.86	5.76	2.52	5.46	15.28	0.66	0.33	4.03	1.78	
Cumberland	Cumberland	James	474	1	3.35	3.91	2.51	6.05	3.84	4.44	5.95	8.36	1.07	2.09	4.73	2.22	49.52
Delaplaine	Fauquier	Potomac	455			2.51	3.03	4.73	5.61	3.85	6.15	3.40	2.16	2.41	4.62	3.28	
Dunbar	Wise	Tennessee	2,600	6	1.74	3.94	5.04	4.21	1.29	7.86	6.89	6.40	1.44	0.78	2.05	1.66	43.20
Dungannon	Scott	do	2,500	6	1.76	2.66	3.78	3.36	1.18	4.49	5.42	6.69	0.75	0.99	1.79	1.17	36.04
Earlysville	Albemarle	James								3.40	7.76	6.02	1.36	1.37	3.58	3.59	
Fairystone State Park	Patrick	Roanoke	1,055		1.77	3.38		5.12	7.15	3.27	7.57	11.09					
Foraker	Dickenson	Tennessee	1,982					3.08		5.24	6.84	4.85	1.87	0.78	1.27	1.55	
Galax	Grayson	Kanawha						3.79	5.29	3.34	8.08	12.70	0.86	2.00	2.52	5.65	
Gordonsville	Orange	James	442	3	3.24	2.90	2.51	5.40	1.80	4.90	6.27	6.45	1.59	1.85	5.35	1.83	44.12
Goshen	Rockbridge	North	1,300	1	2.96	3.03	1.35	3.72	6.30	6.56	3.45	8.10	0.64	1.49	3.57	2.64	43.71
Harrisonburg	Rockingham	Shenandoah	1,338								5.01	5.92	0.59	1.85	3.83	2.87	
Haysi	Dickenson	Ohio						2.59	1.17	4.12	6.36	6.89	1.83	0.49	1.24	1.25	
High Knob	Wise	Tennessee	4,150	6				1.75	6.51	5.71	8.98	1.48	1.81	2.30	1.96		
Hillsville	Carroll	New	2,570					4.06	5.71	4.51	7.19	11.60	0.92	2.35	2.30	3.02	
Hog Island	Northampton	Atlantic	10	1	1.65	2.76	2.62	4.26	3.88	1.37	4.60	2.83	3.14	1.23	5.12	1.18	34.50
Holston	Washington	Tennessee	3,450	6	1.71	1.95	3.47	2.76	1.74	3.65	4.42	7.56	3.13	1.83	2.03	1.30	35.73
Honaker	Russell	do	2,400	6	1.30	3.04	2.93	2.84	2.64	6.81	5.79	11.69	0.97	0.98	1.46	1.58	41.93
Hurley	Buchanan	Ohio						1.82	2.86	3.20	5.87	1.63	0.56	1.83	1.37		
Independence	Grayson	New						3.49	4.84	4.38	7.86	11.46	0.33	1.94	2.22	3.86	
Indian Valley	Floyd	do						4.46	5.42	3.82	11.27	1.17	1.82	3.04	2.30		
Jewell Ridge	Tazewell	Tennessee	2,700	5	1.41	3.13	3.13	3.21	2.97	5.97	5.88	7.45	1.76	0.98	1.44	1.86	38.89
Jonesville	Lee	do	1,400	6	1.77	4.00	5.41	4.63	2.17	6.02	3.11	5.82	1.15	1.18	2.06	2.44	39.76
Jordan Mines	Allegheny	James	1,350					4.85	6.03	4.37	6.40	7.39	0.42	0.60	2.04	1.42	
Kerr's Creek	Rockbridge	North	1,400	1	2.43	2.66	2.62	4.00	6.26	6.56	2.99	12.34	3.02	0.79	3.74	3.37	51.38
Laves Mill	Washington	Tennessee	2,040	6	1.47	2.57	3.18	2.95	2.94	4.01	7.13	7.91	1.40	1.81	0.96	1.60	38.13
Lynchburg (Airport)	Campbell	James	929	4	1.67	2.83	2.34	4.57	2.31	3.30	3.92	11.25	1.08	1.11	3.89	2.90	40.87
Manion	Fairfax	Potomac	450			2.22	2.34	3.75	0.96	4.04	4.07	1.85		3.70	1.98		
Marion	Smyth	Tennessee	2,150	6	1.29	2.45	2.64	2.42	2.43	5.87	7.91	6.40	1.19	1.81	1.51	1.88	37.30
Mc Clung	Bath	James						3.21	6.09	8.29	4.10	7.58	0.47				
Mc Dowell	Highland	do	2,050	1	2.29	3.15	2.36	3.40	4.72	10.15	8.35	14.77	1.98	2.20	3.00	2.02	58.89
Mc Gayheysville	Rockingham	Shenandoah	1,050		1.30	2.01	1.51	2.56	4.00	3.83	4.73	7.49	1.08	1.61	3.77	3.23	37.12
Montehello	Nelson	James	2,500	4	2.33	2.34	2.64	4.07	5.20	3.99	7.36	13.93	1.49	2.25	4.45	4.44	54.49
Mommt Jackson	Shenandoah	Shenandoah	900	4		1.58	1.96	4.08	4.00	3.92	2.66	6.25	1.72	1.88	4.31	2.40	
Mount Solon	Augusta	do	1,400	4			2.05		3.71		5.76	12.59	2.68	1.81	3.89	3.57	
Mutters Gap	Russell	Tennessee	3,925	6	2.39	3.35	3.77	3.52	3.93	5.28	8.57	11.95	2.21	1.68	2.36	1.60	50.71
Nebo	Smyth	do	2,425	6	2.85	2.43	2.05	3.47	3.20	3.25	5.97	6.75	1.25	1.64	2.45	1.65	36.96
Newcastle	Craig	James	1,300	4	2.18	3.13	2.10	4.27	6.92	2.94	4.76	11.18	0.57	0.88	2.62	2.75	44.30
North Garden	Albemarle	do	700	3	3.96	2.82	2.33	4.54	3.39	5.13	8.07	11.24	1.61	1.63	5.09	5.01	54.82
Norton	Wise	Tennessee	4,162					1.95	0.97		2.11	3.67	1.15	0.52	1.82	4.68	
Olinger	Lee	do	1,400	6	1.42	3.70	5.05	3.92	1.85	5.41	4.99	6.14	1.35	0.92	1.39	2.28	38.42
Panorama	Rappahannock	Rappahannock	2,304	6	2.39	2.33	1.59	4.49	8.73	3.03	5.21						
Pedar Dam	Amherst	James	800	7	3.32	3.12	2.47	4.15	4.11	5.25	4.64	12.44	2.40	1.20	4.81	4.17	52.08
Pilot	Montgomery	New	1,153					4.30	6.36	3.66	4.56	10.41	1.00	1.59	2.32	1.67	
Princess Anne	Princess Anne	Atlantic	10	1	3.78	3.27	2.18	2.84	4.31	2.26	3.60	7.77	2.61	1.52	3.46	1.51	39.11
Pulaski	Pulaski	Kanawha	1,904					3.90	4.25	3.49	4.04	8.72	0.19	1.51	2.36	2.51	
Rattlesnake Point	Rappahannock	Rappahannock	3,100	6	2.45	1.61	1.38	3.71	5.98	2.83	4.85						
Richmond (Byrd Airport)	Henrico	James	160	4	4.16	2.99	2.31	4.22	4.26	4.02	4.45	9.33	1.77	2.27	4.59	1.83	46.20
Roanoke (Airways)	Roanoke	Roanoke	907	3	1.77	2.23	2.08	3.18	8.27	3.41	3.92	12.91	0.59	1.04	3.25	3.03	45.68
Rockbridge Baths	Rockbridge	North	1,100	1	2.50	2.16	1.63	3.49	5.24	5.50	3.62						
Rockfish	Nelson	James	590	4	3.59	2.88	1.30	5.29	3.23	5.07	7.30	11.20	1.69	1.32	5.08	4.51	52.46
Rose Hill	Lee	Tennessee	1,500	5	1.97	5.22	6.06	4.62	2.87	5.04	3.90	4.16	1.59	1.22	2.59	2.90	42.13
Skyland	Page	Shenandoah	3,500					3.99	6.91	3.33	4.32	19.06	1.98	2.93	4.40	3.96	
Slate (Dwight)	Buchanan	Ohio						2.07	3.62	3.28	4.38	8.46	1.65		1.28	1.79	
Speedwell	Wythe	Kanawha						3.03	6.70	2.75							

