

# CLIMATOLOGICAL DATA

## VIRGINIA SECTION

S. S. SCHWORM

VOL. LVI

RICHMOND, VA., YEAR 1946

No. 13

### GENERAL SUMMARY

Temperatures during the year 1946 were above normal during all of the cold months and subnormal during all of the warm months, with very few days which were either too cold for comfort or unpleasantly warm from mid-March to mid-November. March and November were the third and fourth warmest, respectively, of their names in a 56 year period. August showed the greatest temperature deficiency for the year.

Precipitation for the State as a whole was above normal only in May and July, but the deficiencies during the other months were small and the average for the year was only 3.12 inches below the annual normal. Distribution over the State was rather uneven and drouth conditions prevailed most of the summer in the middle Shenandoah Valley counties and in portions of Patrick and Henry Counties. Most of the eastern counties experienced unusually heavy rains in July. Snowfall for the year was considerably below normal.

It was an excellent year for agriculture with an unusually long growing season, although some crops were unsatisfactory in the small areas that were too dry. As a rule, wheat, corn, hay, peaches, apples, peanuts, and potatoes were much better than average. Tobacco quality was high, although the yield was not above normal. Blight seriously damaged the tomato crop in the chief commercial areas; otherwise, truck crops were generally good. Pastures furnished good grazing through most of November.

Snow, sleet, and glaze on January 15-21, caused hazardous highway conditions and contributed to many accidents in one of which four persons were killed. Hailstorms appeared to be unusually numerous and accumulated damages amounting to about one quarter of a million dollars were reported. The most severe storm of the season occurred in Augusta, Cumberland, Lunenburg, Nelson, and Nottoway Counties on August 1st. Wind and electric storms caused about \$150,000 damage. For detailed accounts, see the monthly copies of the Section Bulletins. Lightning caused the death of one person in May, two in June, and three in July.

S. B. T.

### MONTHLY STATE DATA 1946

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	37.5	+1.1	76	-5	3.10	-0.14	3.20	5.6	11	9	6	14
February	39.9	+2.6	77	0	2.77	+0.31	2.80	3.3	9	14	6	9
March	52.4	+6.4	84	17	2.82	-0.83	3.15	T.	10	13	6	12
April	55.9	+1.3	94	23	2.64	-0.63	2.50	0.1	7	14	7	9
May	63.3	-1.0	92	26	6.16	+2.43	3.64	0.0	15	12	8	11
June	70.7	-1.2	98	32	3.30	-0.85	3.46	0.0	9	13	10	7
July	73.4	-2.0	99	41	5.08	+0.38	5.26	0.0	10	14	9	8
August	70.5	-3.5	99	33	3.43	-0.98	3.40	0.0	8	12	10	8
September	67.9	-0.7	100	30	2.98	-0.24	3.54	0.0	7	14	8	8
October	59.1	+1.7	90	24	2.62	-0.35	2.90	T.	7	17	6	8
November	51.4	+4.7	86	13	1.76	-0.66	3.25	0.0	6	16	7	7
December	41.9	+3.9	78	1	2.13	-0.93	1.74	2.1	6	13	9	9

### KILLING FROSTS 1946

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
<i>Tidewater Virginia</i>					
Camp Lee	Mar. 10	Oct. 2	Clarendon	Apr. 28	Nov. 13
Cape Henry	Feb. 25	Dec. 2	Clarksville	Apr. 18	Nov. 13
Capron	Apr. 31	Nov. 6	Columbia	Apr. 28	Oct. 13
Cheriton	Mar. 12	Nov. 16	Crozet	Apr. 9	Nov. 12
Dahlgren	Mar. 12	Nov. 15	Culpeper	Apr. 13	Nov. 13
Diamond Springs	Apr. 18	Nov. 16	Danville	Apr. 18	Nov. 13
Driver	Apr. 18	Nov. 16	Danville Airport	Apr. 18	Nov. 13
Emporia	Apr. 18	Nov. 6	Elkwood	Apr. 18	Oct. 2
Holland	Apr. 28	Nov. 14	Farmville	Apr. 28	Oct. 2
Hopewell	Apr. 18	Nov. 14	Fredericksburg	Apr. 18	Nov. 6
Langley Field	Feb. 25	Nov. 24	Gordonsville	May 9	Oct. 2
Norfolk	Feb. 25	Dec. 2	Halifax	Apr. 13	Nov. 13
Norfolk Airport	Feb. 25	Nov. 24	Lawrenceville	Apr. 18	Oct. 2
Onley	Apr. 18	Nov. 14	Lee Exp. Forest	Apr. 28	Oct. 2
Richmond	Mar. 10	Nov. 13	Lincoln	Apr. 21	Nov. 13
Richmond Airport	Mar. 12	Nov. 13	Louisa	Apr. 18	Nov. 13
Saluda	Apr. 28	Nov. 6	Lynchburg	Mar. 12	Nov. 13
Smithfield	Apr. 18	Nov. 14	Manassas	Apr. 28	Oct. 15
Suffolk	Apr. 22	Nov. 13	Martinsville	Apr. 13	Nov. 10
Wabanna	Apr. 18	Nov. 13	Mons	Apr. 28	Oct. 14
Walkerton	Apr. 28	Nov. 13	Montebello	May 4	Nov. 13
Wallaceton	Apr. 18	Nov. 13	Mount Weather	Apr. 29	Nov. 15
Warsaw	Apr. 28	Nov. 14	New Canton	Apr. 28	Nov. 13
Westbrook Sanatorium	Mar. 10	Nov. 15	Orange	Apr. 18	Nov. 13
Williamsburg	Apr. 18	Nov. 14	Pinnacles	May 9	Oct. 2
<i>Middle Virginia</i>					
Bedford	Apr. 18	Oct. 14	Quantico	Apr. 10	Nov. 13
Blackstone	Apr. 1	Nov. 23	Rocky Mount	Apr. 28	Nov. 12
Charlotte Court House		Nov. 14	Stanna Farm	Apr. 27	Nov. 13
Charlottesville	Apr. 18	Nov. 23	Vienna	Apr. 27	Nov. 13
Chatham	Apr. 28	Nov. 13	Washington, D. C.	Mar. 12	Nov. 14
			Waterford	Apr. 18	Nov. 13

(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	.....	.....	103	101	102
1892	54.6	106	-8	39.45	.....	.....	156	100	103
1893	54.7	104	-26	46.22	23.1	103	88	166	104
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	110	-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	55.9	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	153	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	57.5	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	38.20	14.7	126	156	99	111
1938	57.0	101	-3	43.21	9.1	113	163	91	107
1939	57.2	101	-1	41.26	25.9	106	176	91	98
1940	54.3	105	-20	44.59	22.7	112	159	96	111
1941	56.3	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
1946	57.0	100	-5	38.79	11.1	105	161	93	111
NORMALS OR EXTREMES	55.9	110	-29	41.91	16.5	104	163	101	101

Climatological Data for the Year 1946

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	73	61.3	95	June 8	20	Jan. 28	73	34.59	6.15	May	0.65	Mar.	3.9	118	123	99	143	n.
Capron, 3 miles west	Southampton	100	10	61.0	96	July 9	14	Jan. 23†	7	44.94	5.37	June	1.34	Dec.	...	86	154	58	153	n.
Chertion	Northampton	15	27	57.9	93	July 25	17	Jan. 23	20	36.42	6.60	May	1.37	July	11.3	100	84	122	108	nw.
Dahlgren (Prov. grds.)	King George	85	38	62.2	99	July 20	12	Jan. 23	27	30.66	6.26	May	0.61	Nov.	4.0	106	137	114	114	nw.
Diamond Spring	Princess Anne	20	14	60.2	95	June 9†	14	Jan. 28	18	47.38	8.90	Aug.	1.10	Dec.	4.0	106	137	114	114	nw.
Emporia, 1 mile WNW	Greensville	80	40	55.6	95	June 17†	15	Jan. 23†	36	50.00	11.29	July	1.33	Dec.	4.4	112	202	77	86	w.
Holland, 1 mile east	Nansemond	40	14	60.2	95	June 9†	14	Jan. 28	14	44.80	6.52	May	0.91	Mar.	3.0	101	231	24	110	ne.
Hopewell	Prince George	40	55	61.3	95	June 17†	15	Jan. 23†	59	42.34	8.42	June	1.96	Sept.	4.2	109	122	66	177	nw.
Langley Field	Elizabeth City	9	62	60.3	93	June 8†	18	Jan. 28	110	34.21	7.67	May	0.85	Dec.	1.5	110	92	114	159	n.
Norfolk	Richmond	11	76	61.7	96	July 25†	22	Jan. 23	76	45.86	7.24	July	1.26	Oct.	4.4	131	92	102	171	n.
Onley, 1 mile south	Accomac	40	28	58.7	92	Aug. 11	14	Jan. 23†	29	52.76	12.22	May	1.82	Dec.	7.0	99	186	143	36	nw.
Richmond	Richmond	162	67	59.7	95	Sept. 9	14	Jan. 23	75	42.39	8.43	July	1.78	Nov.	8.9	127	121	107	137	sw.
Saluda	Middlesex	107	22	58.3	96	July 25	9	Jan. 23†	23	47.20	10.61	Aug.	0.93	Nov.	5.3	100	182	87	46	sw.
Suffolk	Nansemond	22	1	59.8	96	July 25†	12	Jan. 28	1	41.34	5.69	May	1.25	Dec.	3.5	116	119	133	113	n.
Urbanna	Middlesex	20	8	58.5	95	July 21†	18	Jan. 23	8	46.67	8.88	May	2.08	Nov.	4.9	130	116	113	136	ne.
Walkerton	King and Queen	35	13	68.9	95	July 21	13	Jan. 23†	14	45.93	10.91	May	1.90	Mar.	8.1	129	131	115	119	sw.
Wallaceton, 3 miles west	Norfolk	25	16	59.6	96	June 8†	10	Jan. 23	21	48.08	7.17	July	1.33	Dec.	1.0	117	178	96	91	sw.
Warsaw	Richmond	143	16	59.6	96	June 8†	10	Jan. 23	16	39.94	6.35	July	1.26	Nov.	5.0	98	158	76	131	n.
Williamsburg, 2 mi. NW	James City	100	52	59.5	95	July 25	10	Jan. 23	46	43.46	7.74	May	1.52	Dec.	4.0	115	167	113	85	sw.
<i>Middle Virginia</i>																				
Bedford	Bedford	950	19	58.0	96	June 18	8	Jan. 23	33	41.97	7.50	May	1.75	Oct.	10.0	116	151	122	92	e.
Blackstone	Nottoway	438	2	58.9	95	July 21†	11	Jan. 23	2	44.35	6.74	May	1.72	Mar.	6.0	131	101	122	142	n.
Charlottesville, 2 mi. W	Albemarle	870	54	58.0	96	June 18†	10	Jan. 23†	71	43.64	6.67	May	1.45	Nov.	20.0	109	132	124	109	n.
Chatham, 4 miles north	Pittsylvania	852	24	59.1	95	Sept. 9	10	Jan. 23†	25	40.88	9.02	July	1.01	Aug.	2.5	97	164	83	118	w.
Clarendon	Arlington	225	25	60.4	99	July 22	9	Jan. 24	22	34.33	7.43	May	1.14	Nov.	15.9	121	182	68	116	nw.
Clarksville	Mecklenburg	286	28	60.4	99	July 22	9	Jan. 24	56	41.39	7.85	May	1.44	Dec.	6.0	118	...	...	...	sw.
Columbia	Fluvanna	220	45	58.5	100	Sept. 9	4	Jan. 28	49	38.23	6.96	May	1.84	Nov.	6.5	112	189	78	98	s.
Crozet, 2 miles north	Albemarle	475	38	58.0	99	Sept. 9	7	Jan. 22	5	34.75	4.65	May	1.08	Nov.	23.0	96	150	88	127	sw.
Culpeper	Culpeper	590	30	57.3	96	Sept. 18	9	Jan. 28	40	41.80	9.38	July	0.93	Nov.	15.0	94	104	154	107	s.
Danville	Pittsylvania	314	6	60.4	98	June 18	9	Jan. 24	56	33.30	5.82	May	0.50	Aug.	11.2	115	104	154	107	s.
Elkwood, 7 miles south	Culpeper	590	30	57.3	96	Sept. 18	9	Jan. 24	40	42.19	11.05	May	0.88	Nov.	15.2	105	228	60	77	s.
Farmville	Prince Edward	450	25	56.1	97	Sept. 9	5	Jan. 23†	27	49.57	8.24	July	2.25	Dec.	7.8	130	161	72	132	sw.
Fredericksburg, 4 mi. SW	Spottsylvania	75	53	57.3	93	July 8†	4	Jan. 23	55	39.76	8.34	July	1.26	Apr.	17.4	119	181	113	71	sw.
Gordonsville	Louisiana	438	2	56.6	99	Aug. 17	2	Jan. 23	9	34.92	5.94	May	1.51	Nov.	19.6	114	159	118	188	sw.
Halifax	Halifax	425	2	58.5	95	Sept. 9	10	Jan. 24	2	43.69	8.16	July	1.89	Mar.	4.0	116	127	119	119	w.
Lawrenceville	Brunswick	254	2	58.5	95	Sept. 9	10	Jan. 24	2	34.38	6.36	May	1.01	Nov.	4.5	64	...	...	...	s.
Lee Experimental Forest	Buckingham	500	1	56.5	95	July 20†	1	Jan. 23	1	42.26	8.97	July	1.87	Nov.	...	109	142	105	118	w.
Lynch II	Loudoun	500	45	57.1	98	July 20	3	Jan. 28	46	42.29	8.72	May	0.94	Nov.	17.0	101	186	78	101	s.
Louis I	Louisiana	437	31	57.4	96	Sept. 9	4	Jan. 23	31	44.34	7.31	July	1.88	Nov.	16.3	117	151	132	82	s.
Lynchburg	Campbell	929	75	57.5	95	June 18	7	Jan. 23	75	34.76	5.27	July	1.41	Oct.	7.2	124	99	117	149	sw.
Manassas, 4 miles south	Prince William	172	1	56.5	95	July 20†	1	Jan. 23	30	40.66	11.48	May	1.43	Nov.	14.5	109	163	85	117	sw.
Martinsville	Henry	760	9	58.7	96	June 9†	8	Dec. 3	16	37.76	7.07	May	1.19	Aug.	3.5	120	182	127	56	sw.
Mount Weather II	Loudoun	1,725	42	52.1	93	Sept. 9	6	Jan. 23	43	39.15	6.80	May	0.50	Nov.	20.5	88	65	120	180	w.
New Canton	Buckingham	300	51	57.5	93	July 20†	3	Jan. 28	33	39.92	6.85	May	1.77	Nov.	11.0	106	168	102	95	sw.
Orange, 1 mile SW	Orange	514	1	56.5	95	July 20†	1	Jan. 23	58	38.92	5.86	May	0.47	Nov.	8.0	89	203	82	80	sw.
Piomet Field Station	do.	1	1	56.5	95	July 20†	1	Jan. 23	13	34.82	5.23	May	1.19	Nov.	...	91	189	74	102	nw.
Pinnacles	Patrick	2,820	46	57.3	94	July 8	6	Jan. 23	42	35.01	7.39	Aug.	1.39	Jan.	12.5	122	89	138	138	s.
Quantico (USMC), 1 mi. S	Prince William	334	34	57.3	94	July 8	6	Jan. 23	42	35.83	9.06	May	2.25	Oct.	9.3	215	52	98	9	sw.
Randolph	Charlotte	1,182	50	56.4	94	July 8	9	Jan. 23†	53	40.19	8.17	May	1.14	June	6.1	79	187	98	80	se.
Rocky Mount	Franklin	72	76	58.5	96	July 8	13	Jan. 28	76	34.74	6.74	May	1.05	Nov.	13.6	111	111	97	157	nw.
<i>The Great Valley</i>																				
Afton, 1 mile east	Nelson	1,750	12	49.4	88	July 20	0	Jan. 16†	16	38.26	6.33	Aug.	0.81	Nov.	...	84	...	...	...	w.
Balcony Falls	Rockbridge	725	12	49.4	88	July 20	0	Jan. 16†	16	36.20	5.81	May	1.23	Aug.	104	178	53	137	w.	
Big Meadows	Madison	3,240	55	54.2	90	Sept. 9	4	Jan. 23	52	40.28	5.88	May	1.52	Nov.	27.9	113	135	117	113	nw.
Blacksburg	Montgomery	2,170	29	57.5	99	Sept. 9	6	Jan. 23	55	35.03	5.21	July	1.46	Aug.	9.0	107	175	119	80	w.
Buchanan	Botetourt	875	29	57.5	99	Sept. 9	6	Jan. 23	46	38.53	6.56	July	2.03	Sept.	14.5	100	157	126	82	w.
Burkes Garden	Tazewell	3,250	50	51.3	87	July 11†	0	Jan. 2	52	38.17	5.09	Jan.	1.65	Oct.	15.0	102	210	70	85	w.
Catawba Sanatorium	Roanoke	2,100	36	55.1	90	Sept. 9	8	Jan. 23	36	37.44	6.24	July	1.64	Nov.	5.3	107	196	75	94	nw.
Clifton Forge	Alleghany	1,053	23	54.9	90	Sept. 9	8	Jan. 23	36	37.44	6.24	July	1.64	Nov.	5.3	107	196	75	94	nw.
Clueport	Scott	1,275	23	54.9	90	Sept. 9	8	Jan. 23	36	37.44	6.24	July	1.64	Nov.	5.3	107	196	75	94	nw.
Dale Enterprise	Rockingham	1,350	65	54.5	93	Sept. 9	-2	Jan. 28	67	32.44	6.67	July	0.83	Nov.	27.0	90	149	121	95	s.
Danascus	Washington	1,950	29	56.1	92	Sept. 8	8	Jan. 2†	20	44.06	6.99	July	1.75	Oct.	3.4	132	173	90	102	sw.
Dante	Russell	1,765	29	56.1	92	Sept. 8	8	Jan. 2†	30	40.86	5.07	Jan.	1.99	June	8.7	106	164	115	86	sw.
Deerfield	Augusta	1,750	20	53.20	6.29	July	0.86	Sept.	22.2	9.0	226	94	45	sw.						
Emory	Washington	2,11																		

Monthly and Annual Precipitation for the Year 1946 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 contains 26 data points representing 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. Italics interpolated.

Monthly and Annual Mean Temperatures for the Year 1946 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 cell contains temperature and departure values.

For explanation of reference marks, see page 50.

KILLING FROSTS 1946-Continued

Table with columns for Stations, Last in spring, First in autumn, Stations, Last in spring, First in autumn, Stations, Last in spring, First in autumn, Stations, Last in spring, First in autumn. Lists frost dates for various locations.

Supplemental Table of Monthly and Annual Precipitation for the Year 1946

Stations	Counties	Drainage-basin	Elevation, feet	Length of record, years	January	February	March	April	May	June	July	August	September	October	November	December	Annual
					January	February	March	April	May	June	July	August	September	October	November	December	Annual
Abingdon (TVA)	Washington	Holston	2,000	5	5.07	4.21	3.45	3.52	5.63	2.18	4.44	4.24	0.97	2.15	1.76	2.86	40.48
Alta Vista	Campbell	Roanoke	560	2	3.59	2.48	1.72	2.37	5.29	4.05	7.73	2.76	2.91	1.55	2.04	1.93	38.42
Amissville	Rappahannock	Rappahannock	550	4	1.43	1.80	2.80	1.65	6.82	2.92	5.48	3.90	3.59	3.14	0.90	1.73	36.07
Augusta Springs	Augusta	North	1,700	7	3.63	3.45	3.45	2.90	6.40	2.85	5.67	3.61	2.07	2.65	1.62	1.80	40.10
Bacon	Fairfax	Potomac	380	5	1.51	2.47	.....	1.34	6.51	1.69	2.99	4.10	.....	2.29	1.08	2.22	.....
Barcroft	Arlington	do	190	1	1.80	2.76	1.94	2.12	7.23	1.70	3.26	5.45	4.50	3.00	1.24	1.18	37.18
Berryville	Clarke	Shenandoah	580	5	1.56	2.16	2.28	0.75	4.98	6.57	3.98	2.45	4.09	2.50	0.83	1.69	33.84
Big Knob	Scott	Holston	3,150	12	5.01	3.30	3.32	3.73	3.12	2.15	3.50	3.38	2.48	2.72	1.92	3.21	36.84
Bremo Bluff	Fluvanna	James	225	7	1.81	3.09	3.43	2.08	6.92	2.11	5.09	4.12	3.89	2.33	1.76	2.19	38.82
Buena Vista	Rockbridge	North	835	10	3.03	1.88	2.07	2.18	4.56	3.28	4.25	2.81	1.59	1.93	1.66	2.11	31.35
Byllesby	Rockbridge	New	2,208	4	3.55	2.92	3.56	3.09	6.84	2.35	4.14	2.95	3.02	2.05	1.42	2.01	37.90
Camp Lee	Prince George	Appomattox	60	1	2.50	3.81	3.11	3.31	6.25	3.76	2.26	5.38	2.43	3.17	1.78	2.13	43.54
Churchville	Augusta	Shenandoah	1,475	6	2.87	1.66	2.65	1.93	3.34	3.66	3.22	2.22	1.81	2.67	0.83	2.48	31.28
Cleveland (TVA)	Russell	Clinch	1,540	13	4.21	3.16	3.20	2.69	3.58	2.21	6.57	2.78	3.36	2.57	1.90	3.26	39.49
Cootes Store	Rockingham	Shenandoah	1,050	5	1.10	1.64	3.23	1.40	3.95	5.22	2.15	0.58	2.40	.....	0.60	.....	.....
Copper Hill	Floyd	Roanoke	2,800	6	5.31	2.57	3.26	2.96	7.10	4.59	7.98	1.26	4.80	5.48	.....	.....	.....
Covington	Allegheny	Jackson	1,245	10	3.03	1.67	3.01	1.98	4.57	3.70	2.86	1.49	0.93	2.55	1.76	1.45	29.02
Danville (Airport)	Pittsylvania	Dan	590	2	3.60	2.29	2.13	3.58	4.29	1.49	3.64	0.59	4.86	1.21	2.63	2.22	32.58
Davenport	Buchanan	New	1,600	6	4.03	2.35	2.73	2.90	4.54	2.69	3.60	3.18	1.62	1.43	2.35	.....	.....
Delaplane	Fauquier	Potomac	455	6	1.47	2.60	2.59	.....	6.39	3.73	3.09	5.38	4.58	3.39	0.61	1.82	.....
Driver	Nansemond	Nansemond	7	5	2.88	3.89	1.43	3.17	8.35	3.58	6.32	2.87	3.71	1.94	4.04	1.64	43.81
Dunbar (TVA)	Wise	Clinch	2,000	12	7.45	4.65	4.18	3.68	6.67	2.63	6.32	6.07	2.06	2.19	2.05	3.07	51.02
Dungannon (TVA)	Scott	do	2,500	12	6.14	3.53	3.38	4.74	3.15	4.03	6.46	3.69	3.02	1.68	1.80	3.21	44.83
Episcopal High School	Fairfax	Potomac	250	1	2.04	2.83	1.86	2.04	7.19	1.99	3.05	5.68	4.16	2.98	1.33	2.21	37.86
Fieldale	Henry	Roanoke	875	4	.....	.....	.....	.....	6.80	0.93	2.31	1.99	4.61	2.14	1.95	2.81	.....
Foraker	Dickenson	Cranesnest	1,982	6	5.36	3.19	.....	3.23	4.37	1.51	9.14	3.50	2.71	2.54	.....	2.31	.....
Gulax	Grayson	New	2,380	6	4.03	2.93	4.23	2.69	5.64	1.11	6.03	2.74	3.08	1.82	1.79	1.40	37.54
Goshen	Rockbridge	North	1,300	7	2.80	1.72	3.47	2.16	4.71	3.47	4.78	1.67	0.98	2.82	.....	.....	.....
Greenway Downs	Fairfax	Potomac	337	1	1.69	2.87	1.99	2.02	7.81	1.49	4.66	4.24	2.25	2.56	1.18	2.24	34.90
Groseclose (TVA)	Smyth	Holston	2,550	5	3.84	2.38	3.09	2.75	4.52	1.29	4.08	1.97	2.60	1.11	1.80	2.31	31.74
Haysi	Dickenson	Russell	1,500	6	3.39	3.02	3.45	3.05	5.73	1.46	6.16	4.10	2.67	2.18	1.73	2.26	40.19
High Knob	Wise	Clinch	4,150	12	8.18	4.84	4.60	4.08	5.62	1.64	10.28	6.56	5.33	2.25	2.49	2.75	58.62
Hillsville	Carroll	New	2,570	5	3.86	3.17	2.69	2.34	5.47	2.11	7.07	4.17	3.59	1.48	1.52	1.88	39.35
Hog Island	Northampton	Atlantic	10	7	2.45	3.29	.....	2.71	3.21	2.47	2.84	4.88	1.68	1.46	1.56	1.31	.....
Holston (TVA)	Washington	Holston	3,450	12	3.71	5.96	3.37	3.88	3.09	2.78	2.99	2.70	1.12	1.61	1.61	2.51	35.33
Honaker (near) (TVA)	Russell	Clinch	2,400	12	4.75	2.78	3.43	3.87	4.68	4.46	4.61	4.72	2.90	2.08	2.09	2.15	42.92
Independence	Grayson	New	2,700	6	4.14	3.26	4.41	2.82	6.97	1.80	7.01	3.77	3.46	1.56	1.72	1.62	42.54
Indian Valley	Floyd	do	2,700	6	3.36	3.34	2.65	3.82	5.55	1.91	6.42	2.61	3.53	2.00	1.50	2.33	39.62
Jewell Ridge (TVA)	Tazewell	Clinch	2,750	13	4.32	3.06	3.84	3.57	4.25	7.52	5.98	3.45	1.91	2.37	1.99	2.27	45.04
Jonesville (TVA)	Lee	do	1,400	12	6.42	5.11	3.92	4.39	6.45	2.03	4.45	8.89	1.20	2.90	2.32	3.83	51.61
Jordan Mines	Alleghany	Jackson	1,350	6	3.24	2.15	2.81	2.54	3.39	3.48	4.22	1.39	0.91	2.26	1.64	2.42	30.89
Kerri Creek	Rockbridge	North	1,400	6	2.37	2.67	3.80	2.21	5.33	1.40	5.05	2.90	0.94	3.02	1.65	1.59	33.43
Lee Experimental Forest	Rockingham	James	500	6	2.74	3.24	3.19	2.69	5.34	3.01	8.27	2.31	3.36	2.16	1.87	2.48	42.26
Loeburg	Loudoun	Potomac	821	2	1.70	2.48	2.92	0.90	8.48	3.23	4.99	5.11	5.77	3.27	0.96	1.49	40.00
Loves Mill (TVA)	Washington	Holston	2,060	12	4.58	3.17	2.87	3.85	6.62	0.71	3.90	2.55	1.31	1.77	1.97	2.78	35.58
Marion (TVA)	Smyth	do	2,200	40	4.68	2.21	3.16	2.24	5.22	1.25	4.42	2.85	1.68	1.52	1.83	2.76	33.22
Marshall	Fauquier	Rappahannock	550	2	1.34	2.63	3.00	1.23	3.52	5.86	4.04	5.82	3.73	3.81	.....	1.85	.....
McGayhysville	Rockingham	Shenandoah	1,050	6	2.15	1.69	2.17	1.77	4.00	2.96	3.15	1.39	1.50	3.41	1.05	1.73	26.97
Meadowview (TVA)	Washington	Holston	1,860	7	4.83	3.71	3.11	4.00	4.55	1.17	7.07	2.11	1.08	1.62	2.07	2.86	38.18
Mons	Bedford	James	2,565	2	1.05	2.97	3.96	2.81	5.88	4.28	7.15	2.84	3.59	3.96	2.44	2.36	46.24
Montebello	Nelson	do	2,500	10	3.79	3.35	2.93	2.79	6.73	2.62	4.44	2.44	2.22	3.79	1.94	2.49	39.53
Montebello (Fish Nursery)	do	do	2,700	5	4.21	3.42	4.23	2.28	5.90	2.55	3.60	2.11	2.14	4.36	1.79	.....	.....
Mount Jackson	Shenandoah	Shenandoah	1,050	10	1.53	1.74	3.08	1.27	5.87	4.05	6.53	1.13	2.50	2.67	1.01	1.47	33.27
Natural Bridge Station (nr)	Rockbridge	James	800	5	2.97	3.03	3.55	2.54	6.09	3.73	5.65	1.54	3.01	3.77	2.18	3.70	41.76
Newcastle	Craig	Craig	1,300	10	2.91	2.29	2.84	2.81	3.87	1.81	4.97	1.52	1.80	2.42	1.64	1.86	30.74
Newport	Giles	New	1,900	2	3.73	2.11	1.14	1.87	4.01	2.70	5.32	1.06	1.44	2.65	1.82	2.01	30.86
Norfolk Airport	Princess Anne	Atlantic	30	2	2.89	3.58	1.07	3.36	6.25	3.90	6.32	7.17	4.56	1.22	3.44	1.17	44.93
North Garden	Albermarle	James	700	9	1.51	2.70	3.90	2.76	7.40	1.20	2.50	3.65	2.25	2.67	0.85	2.57	33.96
Olinger (TVA)	Lee	Clinch	1,400	12	7.42	4.09	3.37	2.24	4.48	2.13	5.44	6.72	4.53	2.13	2.85	4.18	49.13
Pedar Dam	Amherst	James	800	13	3.67	2.99	2.77	2.59	6.15	2.50	4.64	2.83	2.24	2.33	1.85	2.42	36.98
Pilot	Montgomery	New	1,193	6	3.82	3.01	2.41	2.48	6.56	3.78	6.63	1.63	1.68	2.91	1.60	2.50	38.11
Princess Anne	Princess Anne	Atlantic	20	2	4.41	4.95	1.01	3.56	5.95	7.18	6.55	5.15	2.96	.....	.....	.....	.....
Pulaski	Pulaski	New	1,904	6	3.40	2.40	2.85	3.29	4.45	3.67	6.69	3.04	1.87	1.56	1.40	1.80	35.33
Rapidan	Culpeper	Rapidan	300	2	2.16	2.37	4.14	2.31	7.06	2.38	5.74	5.36	3.14	2.73	0.97	1.95	40.16
Richmond (U. S. Air Base)	Henrico	James	167	10	2.16	2.69	2.23	2.50	7.73	6.01	6.64	3.87	4.39	2.36	1.90	2.71	45.28
Roanoke (Airways)	Roanoke	Roanoke	907	9	3.15	2.91	2.94	2.76	5.42	2.11	4.79	1.09	2.23	3.73	1.93	2.67	36.33
Rockfish	Nelson	James	500	10	2.59	3.17	3.86	2.66	8.98	5.30	6						

