

CLIMATOLOGICAL DATA

VIRGINIA SECTION

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VOL. XL

RICHMOND, VA., YEAR 1930

No. 13

GENERAL SUMMARY

The year was warmer and much drier than usual, not only for the State, as a whole, but for each of its divisions. Temperatures were not continuously high, the average for the State being below the normal in 5 of the 12 months; December averaged 3.1° below normal. On the other hand, it was the warmest September of record, and February was much milder than usual. All high temperature records in Virginia were broken on July 20th when 109° was recorded at Woodstock, Shenandoah County.

The outstanding feature of the year's weather was the drought, which, for severity and duration, was unprecedented. This was by far the driest year in the climatological history of Virginia. Also, low precipitation records were established for the periods December to August, March to August, June to August, July, August, and July and August combined. Only 35 per cent of the normal rainfall occurred in August, and only 38 per cent in July. Every station in Virginia received less than the usual annual precipitation, the departures ranging from -5.54 inches at Dante, Russell County, to -25.05 inches at Catawba Sanatorium, Roanoke County. The average departure for the State was -17.42 inches. The deficiency in precipitation began in December, 1929, and continued throughout 1930. The deficiency was largest in the Great Valley, where the average departure for the year was -18.03 inches; in Middle Virginia it was -17.86 inches; and in Tidewater Virginia, -15.30 inches. The Tidewater division received a small excess in January and a somewhat larger excess in June. Aside from these, none of the divisions reported an excess for any month.

In the early spring the light rainfall was favorable for agricultural operations, but by the end of April moisture was needed in most localities. Crops were beginning to show the effects of the drought, and the planting of cotton and corn was delayed by dry ground. Copious showers revived all vegetation in the latter half of May, but the relief was temporary. These conditions continued all summer, infrequent showers reviving crops, but never enough moisture to be of lasting benefit, except in a few localities. The dry weather was favorable for the harvesting of grain in midsummer. By the middle of July the drought was felt in all sections, including the coast counties. In the valley and southwestern sections pastures had dried up, and by the end of July many water courses had failed. The high temperatures, especially in July and September, intensified the effects of the drought. In August plowing was greatly delayed by dry ground, pastures were brown, corn was drying up, and tobacco firing. Over more than one-half of Virginia little or no fall plowing was done until after the middle of September. By mid-August water was being carried to many orchards in an effort to save the fruit. By the middle of September there was a shortage of water for all purposes in about one-half of the counties in Virginia, and it was difficult to obtain water for stock in about half of the remainder. Most streams were the lowest of record, and hydroelectric plants were depending upon steam.

While the drought in most localities remained unbroken at the end of the year, streamflow had increased slightly as autumn advanced because of decreased evaporation as temperatures be-

came lower. The flow in deep wells and of some springs, however, had not improved at the end of the year, the ground having dried to so great a depth.

Over much of Virginia there was a briefer span between killing frosts in spring and fall than in 1929, yet in most localities the length of the growing season did not differ greatly from the average, and the heat and dryness of the summer months tended to hasten the maturity of crops that withstood the drought.

Notes on severe windstorms, hail, and heavy snow appeared in the June, July, and December issues of this publication.

MONTHLY STATE DATA, 1930

Month	Temperature			Precipitation			Number of days			
	Mean	Highest	Lowest	Average	Greatest 24-hour	Average snow-fall	Rainy	Clear	Partly cloudy	Cloudy
January	38.4	79	-13	2.66	1.40	11.1	10	10	7	14
February	43.6	86	-7	1.46	1.33	1.3	5	15	6	7
March	44.6	78	2	2.09	4.00	1.0	5	15	8	8
April	54.6	97	16	2.19	2.17	T.	7	14	7	9
May	66.8	98	29	2.42	6.51	0.0	7	15	9	7
June	72.0	103	26	3.26	3.63	0.0	8	16	6	6
July	78.2	109	40	1.72	2.05	0.0	8	16	11	6
August	74.1	107	36	1.71	2.05	0.0	8	16	10	4
September	74.1	102	32	1.34	2.31	0.0	8	16	10	7
October	54.9	89	10	1.22	1.26	T.	6	17	7	7
November	45.5	86	-1	1.80	2.28	0.9	8	11	6	13
December	34.8	74	-7	2.99	2.60	10.3	8	11	8	12

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
1892	54.8	106	-8	40.01	.....	95	163	101	102
1893	55.1	104	-26	46.83	23.1	103	156	100	109
1894	57.0	103	-13	35.97	17.0	88	166	104	95
1895	54.6	107	-18	38.09	38.8	94	174	103	88
1896	56.4	105	-10	42.89	12.8	93	163	106	97
1897	56.0	103	-15	40.81	11.8	92	171	99	95
1898	56.5	105	-9	44.80	8.7	108	162	101	102
1899	56.4	106	-29	48.18	36.7	98	176	95	94
1900	57.0	107	-8	39.33	18.6	86	181	91	93
1901	55.3	106	-14	50.17	9.5	100	167	94	104
1902	55.6	108	0	51.42	14.9	95	170	97	98
1903	55.1	105	-13	44.85	8.4	95	172	89	104
1904	53.8	100	-14	36.18	24.9	95	170	101	95
1905	54.8	98	-15	43.58	18.5	111	155	112	98
1906	56.3	102	-2	49.56	15.2	124	143	120	102
1907	54.3	97	-16	44.19	17.4	115	159	115	91
1908	55.4	102	-20	45.21	30.0	110	162	108	96
1909	55.5	102	-5	39.81	12.9	101	171	104	90
1910	54.7	102	-9	41.37	20.3	112	151	116	98
1911	56.8	104	0	41.50	9.2	115	149	110	106
1912	54.5	100	-25	39.19	24.6	103	165	106	95
1913	57.2	102	-3	42.75	4.0	100	178	98	89
1914	55.0	103	-17	37.17	32.8	101	168	100	97
1915	55.8	101	-6	39.72	13.5	97	160	116	89
1916	55.5	102	-11	39.36	18.6	103	165	106	95
1917	53.3	103	-27	40.82	23.7	114	158	107	100
1918	55.3	108	-22	44.43	24.7	105	159	97	109
1919	56.8	103	-18	41.66	7.4	102	161	99	105
1920	54.8	99	-9	46.30	7.1	106	162	89	115
1921	58.4	104	-12	34.94	13.8	97	161	102	102
1922	57.1	100	-13	44.72	24.8	110	145	107	113
1923	56.2	103	-1	40.84	10.3	104	168	96	101
1924	54.5	107	-12	47.41	12.8	105	165	90	111
1925	56.5	103	-14	32.55	9.5	98	160	99	106
1926	55.5	107	-6	41.60	16.5	112	157	97	111
1927	56.5	104	-7	41.95	10.4	113	148	103	114
1928	55.8	103	-5	42.99	9.2	110	151	112	103
1929	56.1	99	-8	45.92	16.7	115	155	97	113
1930	56.8	109	-13	24.86	23.4	86	165	99	101
Normal and extremes	55.7	109	-29	41.77	17.3	103	162	102	101

Climatological Data for the Year 1930

Stations	Counties	Elevation, feet	Temperature, degrees Fahrenheit						Precipitation						Number of rainy days	Sky			Prevailing direction of wind	
			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 clear days	Number of partly cloudy days		Number of cloudy days
Tidewater Virginia																				
Cape Henry	Princess Anne	20	57	59.6	102	July 21	20	Feb. 16	57	30.11	6.68	June	0.48	Sept.	7.2	108	144	114	107	sw.
Christ Church	Middlesex	87	7		104	July 22	12	Feb. 16	7	27.23	6.36	June	0.67	Aug.	11.0	85				sw.
Dahlgren	King George	21	11	56.8	106	July 20	4	Jan. 31	11	20.47	3.42	Jan.	0.18	Aug.	18.5	86	111	139	115	nw.
Diamond Springs	Princess Anne	25	22	60.8	102	July 21	16	Dec. 25	22	33.66	4.82	June	1.05	Nov.	10.0	67	180	117	68	sw.
Hopewell	Prince George	40	14	60.1	104	July 21*	9	Jan. 31	14	25.81	4.91	June	0.67	Sept.	14.2	84	131	162	72	sw.
Langley Field	Elizabeth City	5	11	59.0	101	July 21	15	Feb. 16	11	24.50	4.12	June	0.90	Nov.	8.1	86	129	126	110	sw.
Norfolk	Norfolk	91	60	60.6	100	Aug. 9	15	Feb. 16	60	26.91	5.90	June	0.57	Sept.	7.8	100	135	104	126	s.
Onley	Accomac	40	12	57.6	103	July 21	12	Feb. 17	12	29.72	4.08	Dec.	0.88	Sept.	33.5	90	133	147	85	nw.
Richmond	Henrico	144	51	58.7	103	July 22	11	Jan. 31*	51	31.26	5.18	June	1.07	Mar.	18.1	95	154	117	94	sw.
Runnymede (near)	Surry	25	41				8	Dec. 25	41	129.94	6.93	June			19.0					
Wallaceton	Richmond	160							41	36.02	6.61	June	1.27	Sept.	7.0	98	238	52	75	sw.
Williamsburg	James City	70	37						37											
Means and extremes				59.2	106	July 20	4	Jan. 31		28.54	6.93	June	0.18	Aug.	14.0	90	150	120	95	sw.
Middle Virginia																				
Callaville	Brunswick	250	36	57.2	102	July 22	7	Jan. 21	36	29.89	4.29	June	1.00	Feb.	13.0	62	241	64	60	w.
Charlottesville (near)	Albemarle	854	39	58.5	107	July 20	8	Jan. 19	39	23.66	2.90	Apr.	0.57	Oct.	23.0	76	147	86	132	sw.
Chatham	Pittsylvania	852	8	58.6	105	Aug. 5	8	Feb. 1	8	27.78	3.57	Nov.	0.98	Sept.	21.6	79	213	87	65	s.
Clarendon	Arlington	206							5	22.66	3.54	July	0.24	Aug.	13.0	76				
Clarksville	Mecklenburg	286	33	57.8	102	June 24*	9	Jan. 31*	33	28.63	4.51	Jan.*	0.39	Aug.	33.0	84	237	3	125	e.
Columbia	Fluvanna	246	32	57.3	105	July 20	-5	Jan. 31	32	24.24	3.62	Jan.	0.70	Sept.	19.0	67	178	81	106	s.
Culpeper	Culpeper	450	23	56.3	104	July 2	-6	Jan. 19	23	20.97	2.75	Dec.	0.19	Oct.	27.2	78				s.
Danville	Pittsylvania	430	30	60.5	103	Aug. 5	11	Dec. 25	30	29.10	4.72	Dec.	0.72	Aug.	33.2	94	167	119	79	sw.
Fredericksburg (near)	Spottsylvania	100	40	58.4	103	July 21*	0	Jan. 31	40	22.81	4.41	June	0.65	Aug.	20.9	74	169	117	79	sw.
Lincoln	Loudoun	500	29	57.5	107	July 20	-1	Jan. 20	29	20.08	3.97	June	0.28	Sept.	22.0	60	180	95	90	sw.
Lynchburg	Campbell	681	59	58.0	102	July 20	7	Jan. 31	59	19.83	2.80	Dec.	0.42	Aug.	20.0	90	151	127	87	w.
Mineral (near)	Louisa	300	15	56.0	108	July 20	-8	Jan. 31	15	21.55	3.88	June	0.51	Aug.		72				s.
Mount Weather	Loudoun	1,726	26	52.5	97	July 20	0	Jan. 19	26	22.62	3.98	Apr.	0.09	Oct.	30.5	62	83	138	144	w.
New Canton	Buckingham	300	36	56.8	103	July 29	-5	Jan. 31	36	23.91	3.34	Jan.	0.60	Sept.	19.7	96	173	117	75	sw.
Pedlar Dam	Amherst		4			July 22			4											
Powhatan	Powhatan								7	21.99	3.36	Apr.	0.80	Mar.	13.0	79	126	65	174	sw.
Quantico	Prince William	17	30	55.4	105	July 20	5	Jan. 31	30	18.96	3.11	June	0.19	Aug.		80	105	156	104	nw.
Randolph	Charlotte	344							26	25.18	3.30	June	0.15	Aug.		63	243	29	93	sw.
Rocky Mount	Franklin	1,150	35	57.8	103	July 28	6	Jan. 31	35	29.09	4.42	Mar.	0.59	Feb.	25.3	73	197	6	162	nw.
Stuart	Patrick	1,188	8	58.0	102	July 20	10	Jan. 19	8	27.69	4.43	Dec.	0.95	Feb.	25.0	65	157	153	55	sw.
Washington, D. C.		112	60	57.5	106	July 20	6	Jan. 31	60	21.66	3.19	June	0.28	Oct.	18.0	86	145	113	107	nw.
Means and extremes				57.2	108	July 20	-8	Jan. 31		24.20	4.72	Dec.	0.09	Oct.	22.2	76	171	92	102	sw.
The Great Valley																				
Blacksburg	Montgomery	2,170	39	53.4	99	July 28	-6	Dec. 25	39	21.09	3.95	Dec.	0.93	July	32.0	104	203	41	121	nw.
Buchanan	Botetourt	820	29	56.5	107	July 28	0	Dec. 25	29	22.27	4.33	June	0.55	July	26.5	57	178	48	139	w.
Burkes Garden	Tazewell	3,250	35		97	July 28	-7	Feb. 16*	35	27.61	3.49	Aug.	0.27	June	36.0	53	182	53	130	w.
Catawba Sanatorium	Roanoke	2,100	20	55.4	102	Aug. 29	7	Jan. 19*	20	17.53	3.69	Dec.	0.41	Sept.	37.0	58	229	96	40	sw.
Dale Enterprise	Rockingham	1,350	51	54.5	104	Aug. 4	-13	Jan. 20	51	17.60	3.95	June	0.08	July	26.3	92	148	119	98	s.
Damascus	Washington	1,900							4	29.42	4.38	Aug.	1.49	June	38.7	108	131	150	84	sw.
Dante	Russell	2,000	13	54.3	98	July 28	0	Jan. 19	13	41.47	12.53	May	1.65	Jan.	25.4	126	133	127	105	
Deerfield	Augusta	1,740							4	17.93	3.28	Sept.	0.15	July	32.0	68				w.
Emory	Washington	2,100	4	53.0	97	Aug. 5	-7	Jan. 19	4	29.76	4.18	Aug.	0.81	July	34.0	131	149	143	73	w.
Glenlyn	Giles	1,530							16	21.98	2.58	Dec.	1.20	Sept.	25.1	105				
Hot Springs	Bath	2,195	38	51.2	95	July 20*	-5	Feb. 16	38	21.38	3.83	Dec.	0.33	July	29.7	97	159	133	73	
Ivanhoe	Wythe	2,028							24	23.03	3.74	Dec.	0.89	Feb.		81				
Lexington	Rockbridge	1,060	62	54.9	105	July 22	-5	Jan. 19	62	20.85	3.99	Dec.	0.70	July		81				sw.
Mendota	Washington	1,350							25	34.95	6.04	Aug.	1.31	Sept.		115				
Radford	Montgomery	1,773							35	18.79	3.31	Dec.	0.80	Feb.	34.0	78				
Roanoke	Roanoke	907	26	58.2	104	July 20*	5	Jan. 21	26	23.17	4.15	Dec.	0.69	Sept.	34.0	81	184	131	60	sw.
Saltville	Smyth	1,739	11	55.0	99	July 23	1	Jan. 18	11	30.86	3.68	Aug.	1.53	June	28.2	133	191	48	126	w.
Speers Ferry	Scott	1,221							34	32.22	4.62	July	0.70	Jan.		93	204	49	112	sw.
Staunton	Augusta	1,380	39				0	Feb. 16	39	116.76	3.29	June			28.6					sw.
Winchester	Frederick	717	26		107	Aug. 4	1	Jan. 19*	26	116.79	3.28	Dec.	0.22	Oct.		94				nw.
Woodstock	Shenandoah	927	39	57.3	109	July 20	-10	Jan. 19	39	16.44	2.53	Dec.	0.12	Oct.	15.5	94	113	71	181	w.
Wytheville	Wythe	2,304	36	52.5	95	July 28	1	Dec. 25	36	21.36	2.88	Dec.	0.88	Feb.	39.6	113	141	116	108	w.
Means and extremes				54.5	109	July 20	-13	Jan. 20		23.67	12.53	May	0.08	July	30.7	93	167	95	103	w.
State means and extremes				56.8	109	July 20	-13	Jan. 20		24.86	12.53	May	0.08	July	23.4	86	165	99	101	sw.

Section and State averages are computed from monthly means. Estimated and incomplete data not considered in 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: * 1, 2, 3, appearing in the tables indicate number of days missing: for example, 2 represents two days, etc.

† Also on other dates. † Interpolated. ‡ Received too late to be included in means and extremes.

§ Post-office addresses of these stations are as follows: Diamond Springs, Norfolk; Runnymede, Elberon; Lincoln, Furellville; Mount Weather, Bluemont; Pedlar Dam, Pleasant View.

T. Precipitation is less than 0.01 inch rain or snow.

ERRATA, 1930

September.—Dante, page 34, precipitation departure, -1.51 inches.

December.—Mendota, page 47, precipitation on 1st, 0.09 inch; total, 1.91 inches. Page 46, total precipitation, 1.91 inches -2.32. Chatham page 47, precipitation on 6th, 1.62 inches; total precipitation, 3.22 inches.

Page 46, total precipitation, 3.22 inches; number of days with 0.01 inch, 3; greatest in 24 hours, 1.62 inches on the 6th. Page 45, Comparative Data table for December, 1930, monthly mean temperature, 34.8°; total precipitation, 2.99 inches; snowfall, 10.3 inches.

Monthly and Annual Precipitation for the Year 1930, with Departures from the Normal

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	
Tidewater																											
Cape Henry	4.48	+1.33	1.84	-1.39	2.26	-1.61	1.73	-1.57	2.88	-0.69	6.68	+2.72	2.03	-3.34	1.88	-2.98	0.48	-2.38	1.59	-1.42	0.87	-1.49	3.39	-0.05	30.11	-12.87	
Christchurch	3.18	.....	1.82	.....	1.47	.....	2.80	.....	2.34	.....	6.36	.....	2.62	.....	0.67	.....	0.79	.....	1.87	.....	0.99	.....	2.32	.....	27.23	.....
Dahlgren	3.42	+0.56	1.31	-1.36	0.79	-2.41	2.61	-1.21	2.99	+0.27	2.95	-0.64	0.89	-3.37	0.18	-5.80	1.28	-1.72	0.75	-1.57	0.98	-1.58	2.32	-0.30	20.47	-19.13	
Diamond Springs	4.16	+1.68	2.30	-1.00	2.60	-0.97	2.98	-0.39	2.13	-1.91	4.82	-0.49	2.70	-3.01	1.69	-2.57	2.30	-1.15	2.40	-0.29	1.05	-1.14	4.54	+0.75	33.66	-10.50	
Hopewell	2.69	-0.28	0.97	-2.58	0.74	-3.61	3.22	-0.27	3.60	-0.56	4.91	+0.50	2.60	-2.07	0.94	-3.52	0.67	-3.05	1.67	-1.18	1.41	-0.92	2.39	-0.88	25.81	-18.42	
Langley Field	3.51	-0.22	1.34	-2.32	1.21	-2.68	1.70	-1.51	1.53	-2.11	4.12	+0.06	1.82	-3.08	1.88	-2.92	3.01	+0.14	1.51	-1.81	0.90	-1.67	1.97	-1.03	24.50	-17.68	
Norfolk	4.09	+0.99	1.24	-1.98	1.65	-2.09	2.38	-0.85	1.63	-2.18	5.90	+1.68	2.50	-3.25	0.64	-4.58	0.57	-2.66	2.00	-1.04	1.26	-0.90	3.02	-0.32	26.91	-17.18	
Onley	3.29	+0.36	3.17	-0.71	1.44	-2.44	1.62	-1.80	2.79	-0.28	3.63	+0.45	2.39	-2.14	2.46	-2.30	0.88	-1.69	2.54	-0.01	1.43	-1.00	4.08	+0.30	29.72	-11.36	
Richmond	4.25	+1.04	1.21	-1.96	1.07	-2.61	3.19	-0.30	2.71	-1.08	5.18	+1.28	4.51	-0.22	2.35	-2.07	1.37	-1.88	1.31	-1.57	1.63	-0.58	2.48	-0.81	31.26	-10.76	
Runnymede (near)	3.75	+0.35	0.77	-3.22	1.18	-3.46	1.92	-1.00	1.23	-1.83	6.93	+2.00	2.60	-3.46	1.50	-3.38	1.16	-2.27	2.46	-1.08	1.47	-1.13	2.81	-0.56	29.94	-19.04	
Tappahannock	4.67	.....	2.26	.....	2.29	.....	2.95	.....	1.53	.....	6.61	.....	2.92	.....	1.98	.....	1.27	.....	2.13	.....	2.75	.....	4.66	.....	36.02	.....
Wallacetown (near)	.....	.....	.....	.....	1.13	-2.86	2.58	-1.15	2.02	-1.64	.....	.....	.....	.....	.....	.....	.....	.....	1.77	-1.21	1.56	-0.55	3.22	+0.54	.....	.....
Williamsburg	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Means	3.77	+0.65	1.66	-1.84	1.49	-2.47	1.56	-1.01	1.23	-1.20	5.28	+0.84	2.51	-2.66	1.47	-3.35	1.25	-1.85	1.83	-1.07	1.34	-1.10	3.05	-0.30	28.54	-15.30	
Middle Virginia																											
Callaville	3.44	-0.10	1.00	-2.62	2.60	-1.85	2.73	-0.09	2.72	-1.34	4.29	+0.18	2.40	-3.47	2.00	-2.86	1.78	-1.76	1.56	-1.26	3.26	+1.21	2.11	-1.19	29.89	-15.96	
Charlottesville (near)	2.62	-0.80	1.24	-1.70	2.72	-0.77	2.90	-0.48	1.66	-2.79	2.89	-2.51	0.78	-3.83	2.39	-2.59	1.76	-1.93	0.57	-2.79	1.81	-0.69	2.41	-0.84	23.66	-21.72	
Chatham	3.30	.....	1.42	.....	2.16	.....	1.66	.....	3.38	.....	3.48	.....	1.63	.....	1.67	.....	0.98	.....	1.31	.....	3.57	.....	3.22	.....	27.78	.....
Clarendon	2.75	.....	1.57	.....	2.16	.....	2.81	.....	1.89	.....	3.28	.....	3.54	.....	0.24	.....	1.00	.....	0.81	.....	0.81	.....	2.32	.....	22.66	.....
Clarksville	4.51	+0.90	0.98	-2.26	1.30	-2.43	2.24	-1.07	3.18	-1.02	4.51	+0.24	2.43	-1.99	0.39	-4.26	1.50	-1.55	1.61	-1.94	2.19	-0.20	3.78	+0.87	28.63	-14.81	
Columbia	3.62	-0.15	1.25	-2.26	1.91	-2.43	3.38	-0.07	2.83	-0.95	2.30	-1.98	0.91	-3.56	2.29	-2.16	0.70	-2.44	1.03	-1.92	1.52	-0.72	2.50	-0.84	24.24	-18.19	
Culpeper	2.70	-0.74	1.65	-0.83	2.45	-0.34	2.40	-0.81	2.72	-1.42	2.46	-2.72	0.92	-2.80	0.41	-3.52	1.04	-2.06	0.19	-2.28	1.34	-1.06	2.75	-0.34	30.97	-18.92	
Danville	3.56	+0.13	0.99	-2.28	2.60	-0.93	1.61	-1.46	2.93	-0.95	3.48	-0.52	2.71	-1.47	0.72	-3.86	1.02	-2.15	1.57	-1.30	2.99	+0.81	4.72	+1.46	29.10	-12.52	
Farmville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fredericksburg (near)	2.83	-0.57	2.82	-0.08	1.28	-2.33	2.37	-1.18	1.59	-2.43	4.41	-0.16	2.24	-2.12	0.65	-4.06	0.90	-2.38	0.68	-2.38	0.66	-1.62	2.38	-0.76	22.81	-20.08	
Hallfax	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lincoln	2.39	-0.72	1.87	-0.52	2.40	-0.65	2.71	-0.56	1.38	-2.15	3.97	-1.06	0.39	-3.09	0.49	-3.80	0.28	-2.41	0.33	-2.56	1.24	-0.90	2.63	-0.27	20.08	-18.69	
Lynchburg	2.77	-0.66	0.95	-2.20	2.26	-1.28	1.45	-1.50	1.75	-1.88	2.57	-1.22	0.90	-3.31	0.42	-3.36	0.90	-2.41	0.62	-2.53	2.44	+0.11	2.89	-0.46	19.83	-20.70	
Manassas (near)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Martinsville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mineral (near)	3.71	+0.14	1.59	-0.72	0.68	-3.43	2.97	-0.58	1.71	-1.97	3.88	-0.32	1.00	-4.22	0.54	-3.66	1.68	-0.96	0.92	-1.01	0.70	-1.40	2.17	-0.60	21.55	-18.73	
Mount Weather	0.99	-2.13	2.51	+0.44	3.52	+0.88	3.98	+0.71	1.74	-2.09	3.80	-1.18	0.37	-3.90	0.43	-4.53	0.65	-2.46	0.09	-3.24	1.83	-0.34	2.71	-0.06	22.62	-17.90	
New Canton	3.34	-0.28	1.14	-1.92	3.03	-1.00	2.76	-0.41	2.34	-1.20	1.37	-2.38	2.26	-1.64	1.67	-2.99	0.60	-2.79	1.17	-1.78	1.79	-0.53	2.44	-0.65	23.91	-17.57	
Pedar Dam	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Powhatan	2.57	.....	1.27	.....	0.80	.....	3.36	.....	1.77	.....	1.70	.....	2.08	.....	1.64	.....	1.59	.....	1.48	.....	1.73	.....	2.00	.....	21.99	.....
Quantico	2.29	-0.86	1.74	-0.82	0.99	-2.46	2.47	-0.45	2.62	-0.79	3.11	-1.02	1.55	-2.46	0.19	-4.22	1.02	-1.83	0.65	-2.24	1.02	-0.87	1.41	-1.48	18.96	-19.50	
Randolph	2.91	-0.81	1.20	-1.90	1.50	-2.22	2.78	-0.18	3.26	-0.81	3.30	-0.42	0.92	-3.73	0.15	-3.62	2.46	-0.14	1.48	-1.34	2.13	-0.04	3.09	-0.12	25.18	-15.33	
Rocky Mount	2.52	-0.89	0.59	-2.77	4.42	+0.41	1.55	-1.88	3.26	-0.72	4.41	-0.24	1.19	-3.71	1.37	-2.81	1.33	-2.21	1.29	-2.40	3.62	+1.09	3.63	+0.10	29.09	-16.03	
Stuart	1.61	.....	0.95	.....	3.19	.....	1.01	.....	2.47	.....	3.65	.....	1.17	.....	1.30	.....	2.67	.....	2.00	.....	3.24	.....	4.43	.....	27.69	.....
Washington, D.C.	2.85	-0.70	1.64	-1.63	2.26	-1.49	3.12	-0.15	1.81	-1.89	3.19	-0.94	2.30	-2.41	0.62	-3.39	0.76	-2.45	0.28	-2.56	0.79	-1.58	2.04	-1.28	21.66	-20.50	
Means	2.86	-0.52	1.42	-1.50	2.21	-1.39	2.52	-0.64	2.35	-1.52	3.30	-0.93	1.53	-2.98	1.01	-3.48	1.20	-2.00	0.96	-2.04	1.99	-0.42	2.83	-0.44	24.20	-17.86	
Great Valley																											
Balcony Falls	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Blackburg	1.78	-1.56	1.25	-1.92	1.02	-2.60	1.54	-1.49	1.79	-2.07	1.37	-3.11	0.93	-4.30	1.08	-2.85	2.09	-1.10	1.33	-1.61	2.96	+0.69	3.95	+0.89	21.09	-21.03	
Bucksburg	2.46	-1.23	0.91	-1.78	2.87	+0.05	1.28	-1.32	0.98	-2.89	4.33	+0.23	0.55	-3.41	0.91	-3.19	1.04	-2.48	0.92	-2.48	2.06	-0.03	3.46	+0.69	22.27	-17.84	
Buchanan	3.20	-0.43	2.01	-1.67	2.88	-1.98	2.22	-1.62	2.78	-1.50	2.60	-0.27	4.80	2.61	1.96	-3.49	-0.91	1.93	1.67	1.10	-2.04	2.67	-0.12	2.45	-1.20	27.61	-19.80
Burkes Garden	1.70	-1.55	0.60	-2.20	1.24	-2.62	1.41	-1.55	0.91	-2.53	3.39	-0.98	0.42	-4.33	1.07	-3.55	0.41	-3.08	0.99	-2.45	1.70	-0.65	3.69	+0.44	17.53	-25.05	
Catawba Sanatorium	1.98	-0.73	1.04	-1.62	1.92	-1.16	1.19	-1.77	1.20	-2.96	3.95	-1.10	0.08	-4.30	1.11	-2.78	0.85	-2.38	0.31	-2.35	0.93	-1.19	3.04	+0.43	17.60	-22.06	
Dale Enterprise	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....</

Monthly and Annual Mean Temperatures for the Year 1930, 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
Tidewater																										
Cape Henry	43.6	+3.4	46.4	+5.2	47.0	+0.4	54.6	0.0	63.6	+4.4	73.4	+0.5	78.6	+1.1	75.4	-1.5	76.8	+5.0	59.8	-2.3	50.1	-2.0	40.7	-3.0	59.6	+1.0
Christchurch	41.1	.....	45.6	.....	47.2	.....	55.0	.....	68.4	.....	74.5	.....	80.3	.....	75.8	.....	74.5	.....	57.4	.....	50.0	.....	43.3	.....	.....	.....
Dahlgren	36.2	+1.1	41.2	+3.3	44.6	-1.6	52.1	-2.1	66.8	+5.1	74.4	+2.5	80.1	+4.1	75.6	+1.8	74.5	+5.3	55.3	-2.1	45.6	-1.3	34.8	-3.4	56.8	-1.4
Diamond Springs	45.8	+3.4	48.8	+6.1	49.8	-0.2	58.0	-1.0	68.6	+2.9	73.8	-0.2	78.9	+1.5	75.2	-1.4	76.8	+4.4	59.7	-2.9	51.4	0.0	42.4	-0.8	60.8	+1.1
Hopewell	42.2	+2.8	47.4	+3.3	48.3	-0.6	57.7	+0.2	70.4	-3.1	74.5	+1.1	80.7	+4.7	77.0	-0.2	78.1	+6.2	58.0	-1.8	48.8	-0.1	38.4	-2.2	60.1	+1.6
Langley Field	41.8	+1.2	45.7	+5.1	46.8	-1.5	54.8	-1.4	68.3	+2.4	74.5	-0.3	78.9	+0.1	75.6	-1.9	76.4	+4.2	57.2	-3.8	49.8	-0.4	38.2	-2.9	59.0	+0.1
Norfolk	44.0	+3.4	48.2	+5.5	48.2	0.0	57.0	+0.2	69.0	+2.8	75.0	+0.6	79.8	+1.1	77.4	0.0	77.7	+6.1	59.7	-2.8	51.0	-0.4	40.4	-2.7	60.6	+1.1
Onley	41.2	+3.2	44.3	+4.2	45.5	-0.1	53.3	-0.5	68.6	+6.3	74.4	+2.0	78.8	+1.2	74.9	-0.6	75.8	+5.7	56.7	-3.9	49.2	-1.1	38.2	-2.9	57.6	+0.3
Richmond	39.6	+1.7	45.3	+5.7	46.4	-0.8	56.6	-1.0	68.8	+2.3	74.2	+2.3	79.8	+1.3	76.1	-0.4	76.8	+6.3	57.2	-2.4	48.1	-0.2	36.1	-8.0	58.7	+0.8
Runnymede (near)	42.4	+2.7	47.8	+8.2	48.0	-0.6	.....	.....	.....	.....	72.4	-0.9	78.6	+1.4	75.3	-0.4	76.9	+7.0	57.0	-1.9	48.8	-0.2	37.0	-3.9	.....	.....
Tappahannock	.....	.....	.....	.....	48.4	-0.5	56.6	-0.5	70.7	+5.7	.....	.....	.....	.....	.....	.....	.....	58.0	-2.0	49.6	+1.1	39.1	-1.8	.....	.....
Williamsburg	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Means	41.8	+2.5	46.1	+5.2	47.3	-0.6	55.5	-0.5	68.8	+3.8	74.1	+0.8	79.4	+1.8	75.8	-0.6	76.6	+5.6	57.8	-2.6	49.0	-0.5	38.2	-2.7	59.2	+1.0
Middle Virginia																										
Callville	40.2	+1.4	44.6	+5.7	44.6	-4.2	51.0	-2.5	66.4	-0.9	71.1	-2.1	78.2	+1.3	74.6	-1.1	75.6	+5.5	55.4	-3.8	46.0	-2.5	35.7	-4.6	57.2	-0.5
Charlottesville (near)	37.5	+1.5	45.3	+8.6	45.8	-0.7	56.0	-0.1	68.3	+2.6	74.6	+1.9	81.2	+5.0	77.3	+2.7	76.4	+7.5	57.2	-1.3	46.2	-1.5	35.8	-2.2	58.5	+2.0
Chatham	40.3	.....	45.2	.....	46.4	.....	56.8	.....	68.9	.....	72.8	.....	80.8	.....	77.5	.....	75.8	.....	56.0	.....	46.0	.....	36.3	.....	58.6	.....
Clarksville	39.6	+3.1	44.2	+3.4	46.9	-1.2	55.4	-1.1	70.6	+5.9	74.7	+1.5	80.2	+3.8	75.3	+0.2	75.8	+6.3	54.4	-4.3	45.2	-1.8	33.6	-5.6	57.8	+0.7
Columbia	37.8	+1.2	43.2	+3.4	45.7	-1.2	55.3	0.0	68.0	+3.2	72.5	+0.4	79.4	+3.8	75.2	+1.0	75.2	+7.0	53.8	-3.8	45.6	-0.7	35.8	-1.9	57.3	+1.3
Culpeper	35.0	+1.3	42.4	+6.9	44.9	-0.2	53.3	-1.5	65.9	+2.0	72.8	+1.0	79.4	+4.3	74.8	+1.6	74.6	+7.3	54.0	-2.0	44.3	0.0	34.5	-1.2	56.3	+1.3
Danville	42.0	+3.1	47.6	+5.2	48.2	-3.0	59.4	+0.2	70.8	+3.6	78.2	+1.7	81.6	+2.4	77.5	-0.6	77.5	+5.3	58.2	-3.0	47.9	-1.6	37.0	-4.7	60.5	+0.7
Farmville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fredericksburg (near)	39.5	+3.2	43.8	+7.6	46.6	-0.1	55.6	+0.4	68.0	+3.2	73.7	+1.4	80.3	+3.9	75.6	+0.8	76.0	+7.0	56.6	-1.2	46.8	0.0	35.9	-1.5	58.4	+2.3
Lincoln	38.4	+3.2	40.9	+8.2	44.3	+1.2	53.2	-0.4	67.6	+3.8	74.6	+3.2	80.0	+4.0	78.4	+4.8	76.9	+8.8	56.8	0.0	47.8	+3.2	34.2	+0.4	57.5	+3.4
Lynchburg	39.2	+1.7	45.8	+5.5	45.4	-1.9	56.3	-1.1	68.4	+1.1	72.7	-1.9	80.5	+3.0	75.4	-0.2	74.5	+5.5	55.6	-2.9	46.0	-1.2	36.5	-3.0	58.0	+0.4
Mineral (near)	37.0	+3.6	42.0	+8.4	40.3	-6.3	53.7	-0.5	66.4	+4.5	71.0	+0.3	78.4	+4.0	74.8	+1.8	74.3	+6.9	54.4	-0.4	43.8	-1.0	34.7	-1.8	56.0	+1.7
Mount Weather	31.6	+1.5	41.0	+11.5	39.1	-0.2	48.2	-1.2	61.3	+2.3	68.8	+1.8	75.0	+4.8	72.8	+3.6	71.5	+3.7	51.2	-0.5	40.4	-1.4	28.8	-3.2	52.5	+2.2
New Canton	38.2	+1.8	44.1	+6.8	45.4	-1.8	55.2	-0.4	67.0	+2.2	71.8	-0.6	77.8	+1.6	73.8	-0.8	74.2	+2.9	54.0	-3.3	45.0	-1.6	35.4	+2.4	56.8	+0.3
Pedlar Dam	38.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Quantico	35.4	+0.7	39.6	+4.6	42.8	-2.8	52.0	-2.5	65.4	+1.4	72.0	-0.6	77.4	+0.1	74.1	-0.2	74.1	+5.7	54.0	-3.2	45.2	+0.2	33.0	-3.0	55.4	0.0
Rocky Mount	40.0	+2.3	45.1	+7.0	46.2	-1.2	57.2	+1.1	68.8	+4.0	72.2	-0.1	80.4	+5.4	74.3	+0.4	74.2	+5.2	55.2	-1.9	44.5	-2.9	35.0	-4.0	57.8	+1.3
Stuart	41.0	.....	45.5	.....	46.2	.....	57.6	.....	68.2	.....	72.1	.....	80.6	.....	74.4	.....	74.2	.....	55.4	.....	45.2	.....	36.2	.....	58.0	.....
Washington, D. C.	35.6	+2.2	41.9	+6.6	45.0	+2.4	53.2	-0.1	67.3	+3.6	75.1	+2.9	80.4	+3.7	76.8	+1.8	76.0	+7.9	56.2	-1.2	46.7	+1.5	35.7	-0.9	57.5	+2.5
Means	38.0	+2.1	43.7	+6.2	44.9	-1.5	54.8	-0.6	67.5	+2.8	73.0	+0.7	79.3	+3.4	75.2	+1.1	74.9	+6.2	55.2	-2.2	45.5	-0.7	35.0	-2.6	57.2	+1.2
Great Valley																										
Blacksburg	35.3	+2.4	41.0	+7.7	41.2	-1.8	52.6	+1.9	63.0	+3.1	67.6	-0.2	75.0	+4.3	71.1	+1.4	70.4	+6.1	51.6	-1.7	41.9	-0.5	30.0	-4.5	53.4	+1.5
Buchanan	38.6	+3.5	43.2	+7.8	44.8	-3.5	55.9	0.0	66.8	+2.4	71.6	-0.8	79.2	+3.8	74.0	-0.3	73.8	+3.7	54.1	-4.9	44.0	-2.3	32.3	-6.1	56.5	-0.2
Burkes Garden	34.5	+3.0	39.0	+7.7	38.2	-2.7	50.7	+3.2	58.9	+2.2	63.9	+0.1	70.8	+4.3	65.6	-0.1	.....	.....	47.4	-2.1	38.6	-1.4	28.1	-4.1	.....	.....
Catawba Sanatorium	37.6	+1.5	43.3	+5.2	42.6	-3.2	53.4	-1.2	65.9	+3.6	70.7	+0.6	77.7	+5.7	73.4	+1.9	72.4	+6.1	53.5	-3.3	42.4	-3.6	31.9	-6.4	55.4	+0.9
Dale Enterprise	35.4	+2.4	41.8	+7.6	43.9	+0.9	53.4	+0.9	64.4	+2.1	69.0	-1.3	76.6	+3.0	71.5	-0.5	70.8	+3.8	53.4	-1.9	42.0	-1.7	32.6	-2.4	54.5	+1.1
Dante	38.0	+3.3	42.8	+3.6	42.4	-3.7	55.4	+1.1	63.0	+2.1	68.4	-0.9	73.6	+2.4	69.8	-1.2	69.4	+2.2	52.1	-4.3	43.6	-1.2	33.2	-4.8	54.3	-0.1
Emory	37.5	.....	40.8	.....	40.5	.....	53.1	.....	62.0	.....	67.4	.....	73.0	.....	68.6	.....	68.1	.....	50.8	.....	42.4	.....	31.4	.....	53.0	.....
Hot Springs	34.6	+8.1	38.8	+7.1	39.2	-8.1	51.0	+0.9	61.1	+1.4	65.6	-1.3	72.0	+2.8	67.7	-0.5	66.8	+4.3	49.2	-3.2	39.8	-2.9	28.7	-5.1	51.2	+0.3
Lexington	36.9	+2.9	40.5	+5.2	41.2	-2.9	53.6	+0.4	65.8	+3.1	70.1	-0.6	78.2	+3.8	72.7	-0.3	73.4	+6.9	52.4	-2.9	42.6	-0.9	31.8	-3.6	54.9	+0.9
Roanoke	40.3	+3.2	45.2	+7.4	46.0	-1.8	57.0	+0.6	68.5	+6.9	73.0	+1.2	80.6	+5.3	75.5	+1.3	75.0	+7.3	55.6	-1.6	45.8	-0.6	36.0	-2.5	58.2	+2.2
Saltville	36.4	.....	42.6	.....	41.8	.....	56.2	.....	65.0	.....	70.4	.....	75.9	.....	71.7	.....	70.8	.....	53.6	.....	44.0	.....	32.0	.....	55.0	.....
Staunton	39.1	+3.7	43.9	+9.0	44.2	-0.3	53.3	+1.9	66.0	+2.4	71.8	+1.3	77.6	+1.6	.....	.....	72.8	+5.6	53.2	-3.1	42.6	-2.8	32.6	-4.1	.....	.....
Winchester	33.0	+1.8	40.6	.....	41.4	-1.5	51.4	-1.9	68.0	+4.8	74.4	+1.9	80.6	.....	75.0	+4.6	73.2	+5.8	54.0	-2.1	44.2	-0.7	32.8	-3.2	.....	.....
Woodstock	36.4	+3.3	43.2	+10.1	46.2	+2.2	56.2	+3.6	70.0	+6.9	73.4	+3.3	80.2	+5.6	75.2	+2.1	74.0	+6.5	54.0	-2.3	45.1	+0.4	33.5	-2.7	57.3	+3.3
Wytheville	35.6	+2.6	41.6	+6.5	40.4	-1.9	53.2	+1.2	62.1	+0.7	66.2	-2.5	73.2	+0.6	68.6	-1.9	68.0	+4.4	50.2	-3.4	41.0	-2.9	29.7	-5.6	52.5	-0.2
Means	36.0	+2.8	41.9	+6.7	42.3	-1.8	53.8	+1.0	64.7	+3.4	69.6	+0.1	75.8	+3.8	71.5	+0.5	71.3	+5.2	52.3	-2.8	42.7	-1.6	31.8	-4.2	54.5	+1.1
State	38.4	+2.5	43.6	+6.1	44.6	-1.3	54.6	-0.5																		