

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

CHARLES F. MARVIN, Chief

CLIMATOLOGICAL DATA

VIRGINIA SECTION

EDWARD A. EVANS, Meteorologist

VOL. XXXIX RICHMOND, VA., YEAR 1929

No. 13

GENERAL SUMMARY

The mild weather of December, 1928, continued through the greater part of January, but a change to colder the latter part of the month carried temperatures to below normal and cold weather was the rule to the latter part of February, giving that month a mean temperature somewhat lower than that of January. A change to warmer the latter part of February brought temperatures above normal again, and mild weather was the rule thereafter through the spring months, with daily averages more than 4° above normal for March and April. On the other hand, the summer months had daily averages about 1° below the normal. Excepting October, temperatures were in excess the remainder of the year, October averages being as far below normal as those of November and December were above. The mean temperature for the year, 56.2°, is somewhat less than 1° above normal.

While precipitation was more frequent in January, the second month of winter, it was similar to that of December preceding in that the amounts from individual storms were scanty, snowfall being unusually light. Beginning with February, however, precipitation was more copious, monthly averages being above normal for most of the State until July, when there was a falling off in the amounts received, averages showing a deficiency till the end of September. While deficiencies were not serious during the warm months over most of the State, there was an area embracing north-central counties where droughty conditions prevailed for a good part of the summer, seriously reducing yields of farm crops. This condition was not relieved until the 1st of October, when heavy rain was general over the State, the average being the largest of record for October. November also furnished an excess in rainfall, but December amounts were deficient. The abundant rainfall of October and the heavy snowfall of November served to increase the flow of streams, resulting in higher stages for winter than is usual.

The absence of general, damaging frosts late in spring and early in the fall resulted in a long growing season and satisfactory crop yields, as a rule, except as noted above with reference to north-central localities.

Notes on severe windstorms, hail, and heavy snow are in the March, May, July, August, and November issues of this publication.—H. A. F.

ERRATA

March.—Page 10, Staunton, mean temperature, 48.3°.

April.—Page 14, Catawba Sanitorium, lowest, 33°; Emory, lowest, 22°.

May.—Page 18, Winchester, date of highest, 30.

June.—Page 22, Runnymede, temperature departure, -2.1°.

July.—Page 26, Onley, highest, 95°; Woodstock, precipitation departure, +1.17 inches.

September.—Page 34, Fredericksburg, highest, 97°, date, 7; Washington, D. C., mean temperature, 70.2°; departure, +2.1°; Wytheville, greatest in 24 hours, 1.04 inches.

October.—Page 38, Lexington, temperature departure, -1.9°; Great Valley, temperature departure, -2.0°.

November.—Page 42, Speers Ferry, precipitation departure, +3.71 inches.

December.—Page 46, Hopewell, dates of highest, 14, 15.

MONTHLY STATE DATA, 1929

Month	Temperature			Precipitation			Number of days			
	Mean	Highest	Lowest	Average	Greatest 24-hour rain	Average snow-fall	Rainy	Clear	Partly cloudy	Cloudy
January	36.3	76	-1	2.51	2.10	1.0	10	12	6	13
February	35.5	73	0	4.05	2.26	7.6	9	12	5	11
March	50.6	93	5	3.97	2.93	0.4	9	14	7	10
April	58.5	96	22	4.05	3.07	T.	9	15	7	8
May	63.7	95	28	4.77	3.50	T.	13	12	10	9
June	70.5	99	31	5.43	4.04	0.0	11	13	10	7
July	74.1	99	38	3.87	3.00	0.0	10	15	10	6
August	72.4	99	37	2.65	2.80	0.0	10	15	9	7
September	68.7	98	28	2.93	3.55	0.0	14	14	8	8
October	55.6	88	23	6.92	6.27	T.	17	8	5	14
November	47.9	88	8	3.35	2.30	3.1	11	14	6	14
December	40.0	76	-5	2.11	1.25	5.3	8	14	6	11

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	166	100	109
1894	57.0	106	-11	35.97	17.0	88	166	104	96
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	108	-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	-9	43.18	36.7	98	176	95	84
1900	57.0	107	-3	39.33	18.6	86	181	91	83
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	108	165	106	95
1913	57.2	102	-3	42.75	4.0	100	178	98	89
1914	55.0	103	-17	37.17	39.8	101	168	100	97
1915	55.8	101	-5	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	169	97	109
1919	56.8	103	-16	41.66	7.4	102	161	99	105
1920	54.8	99	-9	46.30	7.1	106	162	89	116
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	108	-14	32.55	9.5	98	180	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
Normal and extremes	55.7	108	-29	42.39	17.5	102	164	102	99

Climatological Data for the Year 1929

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	56	60.1	96	July 9	17	Dec. 1	56	46.38	6.73	May	1.45	Apr.	0.4	115	135	104	126	sw.
Christ Church	Middlesex	87	6		97	July 9*	12	Dec. 1	6		6.71	Feb.	1.20	Dec.	5.5	94				sw.
Dahlgren	King George	21	10	55.9	97	July 29	9	Jan. 14	10	37.71	5.20	Apr.	1.68	Jan.	10.3	117	95	130	140	sw.
Diamond Springs	Princess Anne	25	21	60.9	94	July 10	14	Dec. 1	21	54.25	9.25	May	1.10	Apr.		185	111	69		sw.
Hopewell	Prince George	40	13	60.1	97	July 10*	10	Dec. 1	13	45.26	8.57	June	1.63	Jan.	4.5	115	131	136	97	sw.
Langley Field	Elizabeth City	5	10	59.2	93	Apr. 7*	15	Nov. 30	10	43.46	7.31	Feb.	1.40	Dec.						sw.
Norfolk	Norfolk	91	59	60.4	95	July 31	17	Nov. 30	59	42.91	7.90	May	1.06	Apr.	3.3	121	138	93	134	s.
Onley	Accomac	40	11	58.4	95	July 10	14	Jan. 14	11	42.10	5.71	May	1.98	Dec.	12.0	106	136	130	99	nw.
Richmond	Henrico	144	50	58.4	97	July 29	12	Dec. 1	50	41.21	6.99	Oct.	1.53	Jan.	10.0	128	156	105	104	sw.
Runnymede (near)	Surry	25	40	58.3	93	Apr. 7*	8	Dec. 1	40	44.30	6.45	Oct.	0.90	Dec.	7.5	82				s.
Wallaceton	Richmond	160							3	61.48	7.95	Sept.†	0.93	Apr.	5.2	122	209	72	84	sw.
Williamsburg	James City	70	36		95	Apr. 7*	11	Dec. 1	36	43.73	7.03	July	1.00	Aug.	4.0	107				sw.
Means and extremes				59.1	97	July 9*	8	Dec. 1		45.49	9.25	May	0.90	Dec.	6.3	111	148	110	107	sw.
Middle Virginia																				
Callaville	Brunswick	250	35	57.6	97	July 29	11	Jan. 14*	35	52.85	8.67	Oct.	1.72	Dec.	6.0	80	225	66	74	w.
Charlottesville (near)	Albemarle	854	38	57.0	98	Sept. 7	8	Nov. 30	38	49.40	7.77	Oct.	1.40	Aug.	18.5	113	135	88	142	s.
Chatham	Pittsylvania	852	7	57.6	95	June 21*	10	Feb. 3*	7	53.08	7.47	Aug.	2.14	Jan.		105	198	100	67	s.
Clarendon	Arlington	200							4	40.11	6.95	June	1.44	Nov.		114				nw.
Clarksville	Mecklenburg	286	32		96	June 21*	15	Dec. 25	32	58.90	8.43	Aug.	1.70	Jan.		101				nw.
Columbia	Fluvanna	246	31	56.0	97	July 28	7	Feb. 3*	31	48.58	11.75	Oct.	1.84	Dec.	14.0	98	157	90	118	s.
Culpeper	Culpeper	450	22	55.6	95	July 29	7	Jan. 14*	22	39.24	8.21	Oct.	1.33	Aug.	16.2	103				s.
Danville	Pittsylvania	430	29	59.6	96	June 22	11	Nov. 30	29	49.98	7.58	Oct.	1.81	Jan.	9.0	127	146	128	91	sw.
Fredericksburg (near)	Spottsylvania	100	39	57.9	97	Sept. 7	9	Jan. 14*	39	35.93	7.23	Oct.	1.79	Jan.	12.0	101	169	110	86	sw.
Lincoln	Loudoun	500	28	55.3	99	July 28	5	Jan. 14*	28	42.97	5.93	May	1.50	Sept.	21.5	93	145	109	111	s.
Lynchburg	Campbell	681	58	57.5	96	July 28	9	Nov. 30	58	40.47	5.76	Apr.	1.87	Dec.	16.9	139	152	112	101	w.
Mineral (near)	Louisa	300	14	54.6	97	July 9	4	Jan. 14*	14	39.33	10.50	Oct.	0.94	Sept.	13.0	96	175	85	105	sw.
Mount Weather	Loudoun	1,726	25	51.6	90	Sept. 3	-1	Jan. 14	25	50.93	11.33	Oct.	1.28	Aug.	20.0	93	72	121	172	s.
New Canton	Buckingham	300	35	56.4	95	July 9	7	Feb. 3*	35	41.69	8.13	Oct.	1.32	Sept.	17.5	121	159	129	77	sw.
Pedlar Dam	Amherst		3	53.8	94	Apr. 7	7	Jan. 14*	3											sw.
Powhatan	Powhatan								6	45.24	8.80	Oct.	1.84	Sept.	11.6	119	124	55	186	sw.
Quantico	Prince William	17	29	55.0	97	July 29	5	Dec. 1	29	39.13	4.81	Arr.	0.98	Aug.	8.8	123	95	137	133	nw.
Randolph	Charlotte	344							25	50.04	5.94	July	1.32	Sept.		111	207	35	123	sw.
Rocky Mount	Franklin	1,150	34	56.6	96	July 9	8	Nov. 30*	34	49.84	9.23	Oct.	1.92	Dec.	18.0	107				sw.
Stuart	Patrick	1,188	7	57.6	93	July 9	7	Nov. 30	7	63.29	9.11	June	2.13	Jan.	17.5	117	136	148	81	nw.
Washington, D. C.		375	59	56.5	97	July 28*	8	Jan. 14	59	39.42	7.41	June	1.29	Jan.	10.3	122	132	108	125	s.
Means and extremes				56.3	99	July 28	-1	Jan. 14		46.37	11.75	Oct.	0.94	Sept.	14.4	109	152	101	112	sw.
The Great Valley																				
Blacksburg	Montgomery	2,170	38	52.4	91	Sept. 7	0	Nov. 30	38	46.89	8.11	Oct.	1.58	Sept.	42.9	126	192	42	131	nw.
Buchanan	Botetourt	820	28	56.3	96	July 8*	8	Nov. 30	28	51.68	10.91	Oct.	2.57	Dec.		91	181	42	142	w.
Burkes Garden	Tazewell	3,250	34	50.4	87	July 19	-8	Dec. 1	34	41.98	6.52	June	0.21	Sept.	35.0	81	157	48	160	w.
Catawba Sanatorium	Roanoke	2,100	19	54.5	93	Sept. 9	2	Nov. 30	19	51.12	10.12	Oct.	1.48	Aug.		99	218	94	53	
Dale Enterprise	Rockingham	1,350	60	53.9	96	Sept. 6	2	Nov. 30	60	38.07	4.98	May	1.34	Aug.	23.2	120	138	128	99	s.
Damascus	Washington	1,900							3	48.44	6.58	Sept.	1.32	Dec.	18.7	134	116	118	131	ne.
Dante	Russell	2,000	12	54.2	92	June 22*	-2	Nov. 30	12	58.29	9.80	May	2.10	Dec.	22.9	157	132	129	104	
Deerfield	Augusta	1,740							3		6.94	Oct.	0.18	Sept.						
Emory	Washington	2,100		54.6	99	Sept. 6	-5	Dec. 1	3	45.94	6.86	May	1.58	Aug.	21.9	154	126	126	113	
Glenlyn	Giles	1,530							15	52.68	8.28	Oct.	1.82	Sept.		142				
Hot Springs	Bath	2,195	37	51.0	86	July 7*	0	Feb. 3*	37	42.01	8.88	Oct.	1.16	Jan.	29.5	121	151	148	66	
Ivanhoe	Wythe	2,028							23	48.65	10.08	Oct.	1.19	Aug.		122				
Lexington	Rockbridge	1,060	52	54.3	93	July 8*	6	Dec. 25	52	43.02	5.11	Oct.	1.61	Sept.	22.3	116	204	54	107	
Mendota	Washington	1,350							24	54.20	7.49	June	1.59	Aug.	18.0	139				
Radford	Montgomery	1,773							34	35.54	5.68	Oct.	1.38	Aug.		106				
Roanoke	Roanoke	907	25	57.5	97	July 29	8	Nov. 30	25	51.37	11.25	Oct.	1.74	Aug.	36.5	127	173	130	62	sw.
Saltville	Smyth	1,739	6	55.2	95	June 23	2	Nov. 30	6	46.16	7.40	June	1.75	Sept.	27.2	161	168	44	153	w.
Speers Ferry	Scott	1,221							33	53.39	7.98	May	1.78	Aug.		118	180	88	147	sw.
Staunton	Augusta	1,380	38	55.7	98	July 28	2	Feb. 30	38	33.05	4.78	Oct.	1.22	Nov.	24.0	97	183	89	93	sw.
Winchester	Frederick	717	25	55.3	99	June 18*	3	Jan. 14	25	43.48	8.88	Oct.	1.35	Dec.		106	214	55	96	nw.
Woodstock	Shenandoah	927	38	53.4	98	June 13*	4	Jan. 14	38	40.41	7.33	Oct.	1.32	Aug.	19.7	125	100	88	177	w.
Wytheville	Wythe	2,304	27	52.2	88	July 9	0	Nov. 30	27	46.52	8.26	June	1.53	Jan.	34.5	152	118	109	138	w.
Means and extremes				54.1	99	June 18*	-8	Dec. 1		46.03	11.25	Oct.	0.18	Sept.	26.9	124	162	87	116	w.
State means and extremes				56.1	99	June 18*	-8	Dec. 1		45.92	11.75	Oct.	0.18	Sept.	16.7	115	155	97	113	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, a, b, c, appearing in the tables indicate number of days missing: for example, b represents two days, etc.

*Also on other dates. †Also October.

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

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

Monthly and Annual Precipitation for the Year 1929, 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	3.07	-0.08	5.25	+2.02	3.36	-0.51	1.45	-1.85	6.73	+3.16	5.60	+1.64	2.80	-2.57	1.92	-2.94	5.52	+2.66	5.24	+2.23	3.25	+0.89	2.19	-1.25	46.38	+3.40
Christchurch	2.21	.....	6.71	.....	5.89	.....	4.64	.....	3.95	.....	2.32	.....	3.14	.....	2.85	.....	.....	.....	4.22	.....	2.62	.....	1.20	.....	.....	.....
Dahlgren	1.68	.....	3.90	.....	3.29	.....	5.20	.....	2.49	-0.23	4.11	+0.52	1.85	-2.41	3.86	-2.12	1.98	-1.02	4.61	+2.29	2.26	-0.80	2.48	-0.14	37.71	.....
Diamond Springs	3.62	+1.15	5.48	+2.18	4.65	+1.08	1.10	-2.27	9.25	+5.21	4.60	-0.71	5.00	-0.71	2.50	-1.77	4.20	+0.75	7.20	+4.51	4.45	+2.26	2.20	-1.59	54.25	+10.09
Hopewell	1.63	-1.34	3.48	-0.07	4.58	+0.23	2.37	-1.12	3.30	-0.86	8.57	+4.16	2.69	-1.98	4.28	-0.18	2.08	-1.64	7.62	+4.77	1.99	-0.34	2.67	-0.60	45.26	+1.03
Langley Field	1.58	-1.15	7.31	+3.65	3.41	-0.48	2.13	-1.11	6.13	+2.49	3.21	-0.85	3.74	-1.16	3.63	-1.17	2.41	-0.46	5.61	+2.79	2.90	+0.33	1.40	-1.60	43.46	+1.28
Norfolk																										
Onley	1.81	-1.29	4.24	+1.02	2.80	-0.97	1.06	-2.17	7.90	+4.09	3.35	-0.37	4.09	-1.66	2.64	-2.58	3.87	+0.64	5.66	+2.62	3.66	+1.50	1.83	-1.51	42.91	-1.18
Richmond	2.09	-0.94	5.29	+1.41	4.17	+0.29	4.36	+0.94	5.71	+2.64	4.21	+1.03	3.47	-1.06	2.98	-1.78	2.02	-0.55	3.62	+1.07	2.20	-0.23	1.98	-1.80	42.10	+1.02
Runnymede	1.63	-1.68	5.19	+2.02	3.96	+0.28	3.50	+0.01	4.00	+0.21	3.02	-0.88	2.16	-2.57	2.41	-2.01	2.41	-0.84	6.99	+4.11	8.34	+1.13	2.70	-0.59	41.21	-0.81
Wallacetown	3.76	+0.36	5.43	+1.44	4.79	+0.15	3.25	-0.67	5.14	+0.92	3.59	-1.38	3.11	-2.95	1.38	-3.50	1.86	-1.57	6.45	+2.91	4.61	+2.04	0.90	-2.47	44.80	-4.72
Williamsburg	3.18	.....	6.48	.....	4.73	.....	0.93	.....	6.81	.....	5.78	.....	6.65	.....	5.06	.....	7.95	.....	7.95	.....	4.35	.....	2.61	.....	61.48	.....
Means	2.84	-0.60	5.28	+1.96	3.14	-0.85	3.12	-0.61	3.86	+0.20	4.84	+0.20	7.03	+0.84	1.00	-5.20	1.24	-2.21	6.20	+8.22	3.33	+1.22	1.85	-0.83	43.73	-2.66
Means																										
2.42 -0.62 5.34 +1.74 4.06 -0.09 2.76 -0.98 5.44 +1.78 4.43 +0.34 3.73 -1.62 2.88 -2.32 3.28 -0.42 5.95 +3.05 3.25 +0.85 2.00 -1.24 45.49 +2.79																										
Middle Virginia																										
Callaville	2.42	-1.12	5.12	+1.50	4.60	+0.15	3.43	-0.20	5.88	+1.82	6.27	+2.16	3.91	-1.96	3.01	-1.85	3.63	+0.09	8.67	+5.85	4.19	+2.14	1.7	-1.58	52.85	-7.00
Charlottesville	3.00	-0.42	4.23	+1.29	4.02	+0.53	5.98	+2.60	3.15	-1.30	7.56	+2.16	5.77	+1.16	1.40	-3.49	2.77	-0.92	7.77	+4.41	1.72	-0.78	2.02	-1.22	49.40	+4.02
Chatham	2.14	.....	4.25	.....	3.39	.....	6.61	.....	4.04	.....	4.33	.....	4.71	.....	7.47	.....	3.22	.....	6.40	.....	3.76	.....	2.73	.....	53.08	.....
Clarendon	2.37	.....	3.18	.....	2.35	.....	6.69	.....	2.53	.....	6.95	.....	1.45	.....	1.58	.....	3.86	.....	5.62	.....	1.44	.....	2.06	.....	40.11	.....
Clarksburg	1.70	-1.91	7.41	+4.17	5.51	+1.72	4.10	+0.79	4.75	+0.55	5.25	+0.95	5.39	+0.97	8.43	+3.78	4.14	+1.09	6.75	+4.10	3.35	+0.96	2.12	-1.24	58.90	+15.96
Columbia	2.12	-1.63	4.22	+1.25	4.31	+0.72	5.15	+1.70	4.13	+0.35	3.21	-1.07	3.47	-1.00	8.21	-1.24	2.96	-0.18	11.75	+8.80	2.21	-0.03	1.84	-1.50	48.58	+6.15
Culpeper																										
Danville	2.42	-1.02	3.19	+0.71	2.51	-0.28	4.21	+1.00	4.11	-0.03	4.16	-0.96	1.80	-1.92	1.33	-2.60	2.72	-0.38	8.21	+5.74	1.83	-0.57	2.75	-0.34	39.24	-0.65
Falls Church	1.81	-1.63	5.06	+1.79	4.28	+0.75	5.41	+2.14	2.21	-1.57	5.77	+1.77	5.08	+0.90	5.29	+0.71	1.89	-1.28	7.58	+4.71	2.47	+0.29	3.13	-0.13	49.98	+8.45
Fredericksburg	2.43	.....	2.79	.....	2.94	.....	6.46	.....	2.30	.....	4.85	.....	2.31	.....	1.47	.....	3.20	.....	6.37	.....	3.20	.....	2.73	.....	53.08	.....
Lincoln	1.79	-1.61	3.28	+0.38	3.29	-0.32	4.93	+1.38	2.76	-1.26	3.78	-0.79	1.46	-2.90	0.98	-3.73	2.39	-0.89	7.23	+4.17	2.03	-0.25	2.01	-1.14	35.93	-6.96
Lynchburg	3.43	+0.32	3.30	+0.91	2.96	-0.09	5.56	+2.29	5.93	+2.40	3.83	-1.20	2.83	-0.65	3.16	-1.13	1.50	-1.19	4.99	+2.10	3.53	+1.39	1.95	-0.95	42.97	+4.20
Means	2.38	-1.05	2.75	-0.40	3.22	-0.32	5.76	+2.81	3.06	-0.57	5.00	+1.21	2.21	-2.00	3.99	+0.21	2.20	-1.11	5.21	+2.06	2.82	+0.49	1.87	-1.39	40.47	-0.06
Mineral																										
Mount Weather	2.12	-1.45	3.64	+1.33	3.95	-0.16	3.26	-0.29	4.38	+0.70	3.03	-1.17	1.94	-3.28	1.32	-2.88	0.94	-1.70	10.50	+8.57	1.74	-0.36	2.51	-0.26	39.33	-0.95
New Canton	2.66	-0.46	3.26	+1.19	4.11	+1.47	7.44	+4.17	8.04	+4.21	3.11	-1.87	3.16	-1.11	1.28	-3.68	2.13	-0.98	11.33	+8.00	3.02	+0.85	1.39	-1.38	50.93	+10.41
Pedlar Dam	2.43	+1.19	3.77	+0.71	3.71	-0.32	4.92	+1.75	3.30	-0.24	3.71	-0.04	2.61	-1.29	2.46	-2.20	1.82	-2.07	8.13	+5.18	2.35	+0.03	2.98	-0.11	41.69	+0.21
Powhatan	2.78	.....	4.32	.....	6.10	.....	6.07	.....	5.27	.....	11.56	.....	4.85	.....	8.00	.....	2.38	.....	8.00	.....	3.55	.....	2.86	.....	45.24	.....
Quantico	1.90	.....	4.10	.....	3.61	.....	4.65	.....	3.40	.....	5.14	.....	2.26	.....	3.13	.....	1.84	.....	8.80	.....	3.55	.....	2.86	.....	45.24	.....
Means	1.71	-1.44	2.69	+0.13	2.94	-0.51	4.84	+1.92	1.58	-1.78	3.96	-0.17	1.55	-2.46	0.98	-3.43	2.44	-0.41	3.96	+1.07	1.76	-0.13	1.72	-1.17	30.13	-8.32
Randolph																										
Rocky Mount	1.79	-1.93	5.61	+2.51	3.98	+0.26	5.18	+2.22	4.06	-0.01	5.43	+1.71	5.94	+1.29	5.19	+1.42	1.32	-1.28	5.57	+2.75	2.67	+0.50	3.30	+0.09	50.04	+9.53
Stuart	2.87	-0.54	4.00	+0.64	3.90	-0.11	4.03	+0.60	4.39	+0.41	8.06	+3.41	2.89	-2.01	2.40	-1.78	2.30	-1.24	9.23	+5.63	3.85	+1.32	1.92	-1.61	49.84	+4.72
Washington, D.C.	2.13	.....	5.10	.....	5.74	.....	3.91	.....	5.84	.....	9.11	.....	7.77	.....	5.60	.....	2.80	.....	9.02	.....	3.40	.....	2.97	.....	63.39	.....
Means	2.16	-1.39	3.19	-0.23	2.64	-1.21	6.10	+2.86	2.29	-1.41	7.41	+3.28	1.29	-3.42	1.80	-2.71	4.32	+1.08	4.82	+1.98	1.70	-0.67	2.20	-1.12	39.42	-2.96
Means																										
2.30 -1.01 4.02 +1.12 3.82 +0.14 5.21 +1.73 3.97 +0.14 5.51 +0.59 3.39 -1.23 3.09 -1.54 2.56 -0.71 7.52 +4.70 2.67 +0.32 2.31 -0.94 46.37 +3.31																										
Great Valley																										
Blacksburg	2.43	-0.91	5.09	+1.92	4.33	+0.71	3.40	+0.37	3.33	-0.53	6.55	+2.07	4.28	-0.95	1.94	-1.99	1.58	-1.61	8.11	+5.17	3.48	+1.21	2.37	-0.69	46.89	+4.77
Buchanan	2.86	-0.83	3.65	+0.96	4.65	+1.83	4.60	+2.00	5.27	+1.40	4.09	-0.01	5.68	+1.72	2.62	-1.48	1.09	-2.43	10.91	+7.51	3.69	+1.60	2.57	-0.70	51.68	+11.57
Burkes Garden	3.13	-0.50	3.07	-0.61	3.53	-1.33	3.17	-0.57	3.82	-0.46	6.52	+1.45	4.15	-0.42	2.70	-1.70	0.21	-3.39	4.49	+1.35	5.99	+3.20	1.20	-2.45	41.98	-5.43
Catawba Sanatorium	2.47	-0.78	3.63	+0.83	5.11	+1.25	3.94	+0.98	5.25	+1.81	6.07	+1.70	3.13	-1.62	1.48	-3.14	3.24	-0.25	10.12	+6.68	5.13	+2.78	1.55	-1.70	51.12	+8.54
Dale Enterprise	2.23	-0.53	2.29	-0.37	3.01	-0.07	3.73	+0.77	4.98	+0.82	4.80	-0.25	4.49	+0.11	1.34	-2.65	1.68	-1.55	4.36	+1.70	3.34	+1.22	1.82	-0.79	38.07	-1.69
Damascus																										
Dante	1.57	.....	3.99	.....	4.55	.....	1.95	.....	6.45	.....	6.05	.....	5.86	.....	2.68	.....	6.58	.....	3.77	.....	3.67	.....	1.32	.....	48.44	.....
Deerfield	3.96	-0.15	3.46	+0.07	6.00	+2.25	3.53	-0.30	9.80	+5.19	5.11	+0.42	6.79	+2.11	2.57	-1.73	4.51	+1.14	5.47	+2.16	4.99	+2.16	2.10	-2.03	58.29	+11.28
Emory	3.48	.....	1.27	.....	3.70	.....	4.36	.....	3.70	.....	2.69	.....	5.13	.....	0.18	.....	0.18	.....	6.94	.....	3.72	.....	1.66	.....	48.25	.....
Glennlynn	2.60	.....	4.12	.....	4.63	.....	3.31	.....	6.86	.....	5.64	.....	4.47	.....	1.58	.....	2.37	.....	3.75	.....	4.67	.....	2.04	.....	45.94	.....
Means	3.63	-0.26	5.76	+2.84	3.68	+0.26	2.15	-0.42	3.55	+0.68	7.33	+4.01	5.54	+1.51	3.53	-0.28	1.82	-0.37	8.28	+5.53	4.72	+2.98	2.69	-0.50	52.63	

Monthly and Annual Mean Temperatures for the Year 1929, with Departures from the Normal

	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
Stations	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	42.2	+2.0	40.1	-1.1	54.2	+7.6	61.0	+6.4	65.8	+1.6	72.9	0.0	77.2	-0.3	75.3	-1.6	72.2	+0.4	61.2	-0.9	53.5	+1.4	45.2	+1.5	60.1	+1.5
Christchurch	40.2	-0.4	38.2	-2.0	51.0	+5.0	60.6	+4.1	65.8	+1.2	73.3	-0.8	75.4	-0.6	73.2	-0.6	69.1	-0.1	55.4	-2.0	48.0	+1.1	38.7	+0.5	55.9	-0.1
Dahlgren	35.1	-3.4	34.3	-4.2	49.7	+5.7	57.6	+6.2	62.9	+1.2	71.1	-0.8	75.4	-0.6	73.2	-0.6	69.1	-0.1	55.4	-2.0	48.0	+1.1	38.7	+0.5	55.9	-0.1
Diamond Springs	44.8	+2.4	41.6	-1.1	55.8	+5.8	61.3	+3.3	66.3	+0.6	72.8	-1.2	76.8	-0.6	75.4	-1.2	71.7	-0.7	62.2	-0.4	54.7	+3.3	47.0	+3.8	60.9	+1.2
Hopewell	40.8	+1.4	38.8	-1.0	55.0	+6.1	63.2	+5.7	68.4	+0.3	74.3	+0.9	78.0	+2.0	76.0	-1.2	72.8	+0.8	59.2	-0.6	52.1	+3.2	42.4	+1.8	60.1	+1.6
Langley Field	40.4	-0.2	39.4	-1.1	54.0	+5.7	60.2	+4.0	65.3	-0.6	72.8	-2.0	76.6	-2.2	74.6	-2.9	71.2	-1.0	60.8	-0.2	51.4	+1.2	43.6	+2.5	59.2	+0.3
Norfolk	42.2	+1.6	41.3	-1.4	54.4	+6.2	61.6	+4.8	66.6	+0.4	73.4	-1.0	77.0	-1.7	76.7	-0.7	72.0	+0.4	61.1	-1.4	53.1	+1.7	45.4	+2.3	60.4	+0.9
Onley	39.4	+1.4	38.0	-2.1	52.0	+6.4	59.2	+5.4	65.1	+2.8	72.7	+0.3	76.2	-1.4	74.8	-0.7	70.4	+0.3	58.6	-2.0	51.6	+1.2	42.7	+1.6	58.4	+1.1
Richmond	38.8	+0.9	38.2	-1.4	52.8	+5.6	60.2	+3.6	65.8	+0.7	73.1	-1.0	77.0	-1.5	75.1	-1.4	71.2	+0.7	58.0	-1.6	49.8	+1.5	41.4	+1.6	58.4	+0.5
Runnymede	40.2	+0.6	39.0	-1.6	53.8	+5.2	60.6	+4.1	65.0	-0.9	71.2	-2.1	74.4	-2.8	74.6	-1.1	70.5	+0.6	58.0	-0.9	50.4	+1.4	42.9	+2.0	63.3	+0.4
Williamsburg	40.6	+0.4	39.0	-1.8	53.8	+5.2	60.6	+4.5	66.4	+1.4	73.0	+0.2	76.7	-0.1	75.4	-0.1	71.4	+1.5	58.8	-1.2	51.6	+3.0	44.6	+3.6	59.1	+1.0
Means	40.4	+1.2	38.8	-1.4	53.9	+6.1	60.6	+4.5	65.8	+0.6	72.8	-0.7	76.5	-0.9	75.1	-1.2	71.2	+0.3	59.3	-1.1	51.6	+1.9	43.4	+2.1	59.1	+1.0
Middle Virginia																										
Callville	37.5	-1.3	36.5	-2.4	51.7	+2.9	60.4	+3.9	64.9	-0.6	71.3	-1.9	75.6	-1.3	74.3	-1.4	70.8	+0.7	56.9	-2.3	49.3	+0.8	41.7	+1.4	57.6	-0.1
Charlottesville	35.6	-0.4	36.2	-0.6	51.5	+5.0	60.2	+4.1	65.1	-0.6	71.6	-1.1	74.7	-1.5	73.3	-1.3	70.8	+1.9	56.8	-1.7	48.0	+0.1	40.2	+2.2	57.0	+0.5
Chatham	38.0	-0.7	37.7	-1.0	52.6	+5.1	61.0	+4.1	65.2	-0.2	72.0	-1.0	75.4	-0.6	73.9	-0.9	69.2	+0.5	55.7	-2.3	49.2	+0.8	41.4	+1.4	57.6	-0.1
Clarksville	37.6	+1.1	34.3	-6.5	52.3	+4.2	60.0	+3.5	67.4	+2.7	73.7	+0.5	76.6	+0.2	74.6	-0.5	69.4	-0.1	56.3	-2.4	49.2	+0.8	41.4	+1.4	57.6	-0.1
Columbia	36.0	-0.6	34.4	-2.7	50.4	+3.4	58.2	+2.9	64.8	0.0	70.6	-1.5	74.5	-1.1	72.8	-1.9	68.8	+0.6	54.0	-3.6	48.4	+2.1	39.4	+1.7	56.0	-0.1
Culpeper	34.2	+0.5	35.2	-0.3	51.0	+5.9	57.8	+3.0	64.1	+0.2	70.3	-1.5	74.6	-0.5	72.7	-0.5	68.2	+0.9	53.7	-2.3	47.6	+3.3	37.6	+1.9	55.6	+0.9
Danville	39.7	+0.8	39.4	-3.0	54.8	+3.6	62.8	+3.6	68.4	+1.2	74.4	-2.5	77.0	-2.2	75.6	-2.5	71.4	-0.8	58.2	-3.0	51.1	+1.6	42.3	+0.6	59.6	-0.2
Fredericksburg	38.2	+1.9	36.8	+0.6	53.0	+6.3	59.7	+4.5	65.6	+0.8	72.1	-0.2	76.2	-0.2	74.8	0.0	70.5	+1.5	56.2	-1.6	50.2	+3.4	41.0	+3.6	57.9	+1.7
Lincoln	32.4	+0.4	34.0	+1.3	49.8	+6.7	57.8	+4.2	63.5	-0.2	72.2	+0.8	74.8	-1.2	73.5	-0.1	70.6	+2.5	55.6	-1.2	46.8	+2.2	37.6	+3.8	55.3	+1.6
Lynchburg	37.2	-0.3	38.2	-2.1	52.8	+6.5	59.6	+2.3	65.3	-2.0	72.6	-2.0	76.0	-1.5	73.2	-2.4	70.0	+1.0	55.8	-2.7	48.0	+0.8	40.9	+1.4	57.5	-0.1
Mineral	34.7	+1.3	33.8	+0.2	49.4	+2.8	57.1	+2.9	63.2	+1.3	67.9	-2.8	71.2	-3.2	71.4	-1.6	67.4	0.0	54.6	-0.2	46.2	+1.4	38.8	+2.3	54.6	+0.4
Mount Weather	28.2	-1.9	30.6	+1.1	46.2	+6.9	54.4	+5.0	56.2	-2.8	65.5	-1.5	71.0	+0.2	70.3	+1.1	65.3	+0.1	52.3	+0.6	43.6	+1.8	35.1	+3.1	51.6	+0.2
New Canton	37.8	+1.4	35.6	-1.7	51.8	+4.6	59.2	+3.6	64.9	+0.1	69.6	-2.8	74.2	-2.0	71.8	-2.8	68.8	-2.6	54.9	-2.4	48.4	+1.8	40.2	+2.4	56.4	0.0
Pedlar Dam	35.0	-0.7	34.3	-1.0	48.5	+5.6	56.6	+3.6	60.0	-0.6	66.8	-2.8	69.4	-2.0	68.0	-2.8	65.0	-2.5	54.1	-2.4	48.5	+1.8	39.9	+2.4	53.8	-0.1
Quantico	34.3	-0.4	33.1	-1.9	48.6	+3.0	56.6	+2.1	63.0	-1.0	70.4	-2.2	75.0	-2.3	72.4	-1.9	68.4	0.0	53.9	-3.3	46.2	+1.2	37.6	+1.6	55.0	-0.4
Rocky Mount	37.4	-0.3	36.1	-2.0	51.1	+3.7	60.1	+4.0	64.9	-0.8	71.3	-1.0	74.8	-0.2	72.0	-1.9	68.2	-0.8	55.3	-1.8	48.4	+1.0	40.8	+1.8	56.6	+0.1
Stuart	38.3	-0.3	38.4	-0.2	53.6	+6.0	60.9	+4.8	64.8	-0.2	71.0	-1.0	73.8	-0.2	73.4	-0.6	69.4	-0.6	56.6	-1.8	49.0	+1.0	41.7	+1.4	57.6	-0.1
Washington, D. C.	34.9	+1.6	35.0	-0.3	50.2	+7.6	57.6	+4.3	64.5	+0.8	72.2	0.0	76.9	+0.1	74.4	-0.6	70.2	+2.1	55.6	-1.8	47.6	+2.4	38.6	+2.0	56.5	+1.5
Means	35.9	+0.2	35.5	-1.3	51.1	+4.8	58.9	+3.6	64.2	-0.1	70.9	-1.3	74.5	-1.1	72.9	-1.2	69.0	+0.5	55.4	-2.0	48.0	+1.7	39.7	+2.0	56.3	+0.5
Great Valley																										
Blacksburg	32.9	0.0	32.4	-0.9	47.7	+4.7	55.4	+4.7	60.0	+0.1	66.6	-1.2	69.6	-1.1	68.4	-1.3	64.9	+0.6	51.3	-2.0	43.6	+1.2	36.6	+2.1	52.4	+0.5
Buchanan	35.9	+0.8	35.9	-4.5	50.7	+2.4	58.7	+2.8	64.8	+0.4	71.0	-1.4	73.9	-1.5	72.4	-1.9	68.8	-1.3	55.6	-3.4	47.4	+1.1	40.4	+2.0	56.3	-0.4
Burkes Garden	32.8	+1.3	29.6	-1.7	45.2	+4.3	53.6	+6.1	58.4	+1.6	63.6	-0.2	67.6	+1.1	65.0	-0.7	61.2	+1.0	49.2	-0.3	42.0	+2.0	36.2	+4.0	50.4	+1.6
Catawba Sanatorium	34.6	-1.5	34.8	-3.3	49.6	+3.8	58.6	+4.0	62.2	-0.1	67.9	-2.2	71.7	-0.3	70.8	-0.7	65.6	-0.7	55.3	-1.5	43.6	+2.4	39.7	+1.4	54.5	-0.3
Dale Enterprise	33.0	0.0	31.8	-2.4	48.0	+5.0	56.8	+4.3	62.2	-0.1	68.0	-2.3	72.2	-1.4	70.6	-1.4	67.9	+1.4	53.2	-2.1	45.8	+2.1	36.9	+1.9	53.9	+0.5
Dante	36.2	+1.5	34.5	-4.7	49.4	+3.3	57.5	+3.2	61.5	+0.6	67.7	-1.6	71.7	+0.5	69.2	-1.8	66.4	-0.8	53.8	-2.6	45.0	+0.2	37.5	-0.5	54.2	-0.2
Emory	35.0	-0.7	34.0	-1.7	48.0	+5.0	54.9	+4.0	60.6	-0.6	67.4	-1.2	71.2	-0.7	69.2	-1.2	65.7	-0.7	56.2	-2.0	47.9	+1.0	39.6	+2.0	54.6	-0.1
Hot Springs	31.2	-0.3	30.6	-1.1	45.6	+3.3	55.0	+4.9	59.8	+0.1	65.2	-1.7	68.5	-0.7	66.2	-2.0	62.5	0.0	49.6	-2.8	42.4	-0.3	35.6	+1.8	51.0	+0.1
Lexington	32.6	-1.4	33.5	-1.8	47.0	+2.9	55.9	+2.7	60.8	-1.9	70.4	-0.3	74.4	0.0	70.5	-2.5	67.0	+0.5	53.4	-1.9	46.8	+3.3	38.8	+3.4	54.3	+0.2
Roanoke	38.2	+1.1	37.4	-0.4	52.6	+4.8	61.0	+4.6	65.4	+3.8	71.8	0.0	75.2	-0.1	73.5	-0.7	69.0	+1.3	55.5	-1.7	48.9	+2.5	42.0	+3.5	57.5	+1.6
Saltville	35.6	-0.7	34.4	-1.9	49.7	+4.7	57.0	+4.0	63.6	-0.6	70.6	-1.2	74.0	-0.7	72.0	-1.3	68.8	-0.8	54.4	-2.0	44.2	+1.0	36.0	+2.0	55.2	-0.4
Staunton	33.4	-2.0	32.7	-2.2	48.3	+3.8	57.9	+4.5	64.9	+1.3	70.8	+0.3	75.2	+1.2	72.4	-0.7	69.2	+2.0	55.8	-0.5	47.3	+1.9	40.8	+1.1	55.7	+1.1
Winchester	33.0	+1.8	33.1	-0.8	48.6	+3.7	57.8	+4.5	61.0	-2.2	72.2	-0.3	76.2	+0.2	73.1	+2.7	71.5	+4.1	54.8	-1.3	44.6	-0.3	37.2	+1.2	55.3	+1.3
Woodstock	32.0	-1.1	31.2	-1.9	48.8	+4.8	55.3	+2.7	61.0	-2.1	68.6	-1.5	71.3	-3.3	70.1	-3.0	68.6	+1.1	53.4	-2.9	44.4	-0.3	36.4	+0.2	53.4	-0.6
Wytheville	33.8	+0.8	32.8	-2.3	47.6	+5.3	55.2	+3.2	59.8	-1.6	66.4	-2.3	69.6	-3.0	68.2	-2.3	63.5	-0.1	51.2	-2.4	42.7	-0.3	36.1	+0.8	52.2	-0.4
Means	34.0	+0.1	33.4	-2.2	48.5	+4.2	56.7	+4.0	61.7	0.0	68.5	-1.1	72.2	-0.6	70.2	-1.3	67.0	+0.7	53.5	-2.0	45.1	+0.8	38.0	+2.0	54.1	+0.4
State	36.4	+0.4	35.6	-1.7	50.7	+4.9	58.6	+4.0	63.7	+0.1	70.6	-1.1	74.2	-0.9	72.5	-1.2	68.9	+0.5	55.7	-1.7	47.9					