

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

CHARLES F. MARVIN, Chief

In Cooperation with Maryland State Weather Service

# CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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### GENERAL SUMMARY

June for the section as a whole was normal in temperature, but departures from normal over the section were variable, being somewhat below or above over large areas. Outstanding warm days were 5th, 6th, 15th, 22d, 25th, 26th, 27th and 30th. Lowest temperatures occurred on 8th or 9th, being freezing in the Allegheny Mountain region.

Monthly rainfall varied over the section, being mostly in the form of thundershowers. It was mostly less than normal, except greater than normal in the Allegheny Mountain region, in the central and southern portions of the western half of the Eastern Shore, and in a few widely separated localities. General average was 96 per cent of normal and was the greatest in June since 1929. Thundershowers were heavy in some districts on 6th, 10th, 12th, 15th, 16th, 17th, 20th, 27th, and 28th.

Monthly sunshine was slightly above normal, while relative humidity averaged somewhat below normal.

There was an absence of severe electrical storms and of violent or damaging thundershowers. Lightning did, however, damage several buildings at Milford, Del., and at Mt. Airy, Md., on the 15th, and injured a man at Harnwood and fired a home at Randallstown, both in Baltimore County, on the 27th.

Crops, pastures, and grasses were fair to good. Corn was a good stand and did well. Haying was in progress. Cherries were harvested. The drop of tree-fruit was heavy. During the second decade barley was harvested in north-central Maryland and harvesting of peas and strawberries ended on the Eastern Shore. During the third decade barley was being threshed; wheat and rye were being harvested, except in the Allegheny Mountain region; oats were ripening in southern counties; early potatoes were maturing; very-early sugar corn was being cut locally in eastern and central divisions; peas were being harvested, but harvesting of strawberries ended, between Chesapeake Bay and the Allegheny Mountains; strawberries were being harvested in the Allegheny Mountain region; sweet potatoes were vining; early tomatoes were fruiting; tobacco was making a good stand, and early apples and early peaches were ripening. — J. B., jr.

### TEMPERATURE

The monthly mean for the section, 70.8°, is normal. The highest monthly mean was 73.7°, at Crisfield; the lowest, 62.6°, at Sines. The highest temperature, 95°, occurred at Frederick on the 4th, 25th, and 26th, and at Keedysville on the 4th and 30th; the lowest, 30°, at Grantsville, on the 8th. The greatest local monthly range was 59° at Lutherville and Westminster; the least, 40°, at Crisfield. The greatest daily range was 47°, at Hancock on the 25th.

### PRECIPITATION

The monthly average for the section, 3.81 inches, is 0.14 inch below normal. The greatest monthly amount was 6.80 inches at Friendsville; the least, 1.24 inches, at Frederick. The greatest 24-hour amount was 3.53 inches at Ridgely on the 15-16th. The number of days with 0.01 inch or more, 10, is normal.

### MISCELLANEOUS PHENOMENA (WITH DATES)

Fog, dense. — Eastern portion of section, 15.

Frosts, light. — North-central Maryland, 8; Allegany and Washington Counties, 24.

Frosts, heavy. — Allegany and Washington counties, 8, 9; Allegheny Mountain region, 10, 24.

Frosts, killing. — Allegheny Mountain region, 8, 9.

Hail, heavy. — Grantsville, 1 inch diameter, damage negligible, 6; Mechanicsville, much damage to crops, 6; Milford, no damage, 14; Oakland, 1 1/4 inch diameter, very little damage, 15.

Thundershowers. — (not general over section), 4, 5, 6, 10, 12, 13, 15, 16, 17, 20, 21, 27, 28, 30.

Winds, moderately high. — Northeast, 17; southwest, 27; northwest, 7, 23. Thundergust. — Northeast, 15.

### PRESSURE, HUMIDITY, SUNSHINE AND WIND

Stations	Atmospheric pressure reduced to sea level			Mean relative humidity			Sunshine		Wind †						
	Average	Highest	Lowest	Date	Date	s. a. m.	Local a. m.	8 p. m.	Hours	Percentage	Average hourly velocity	Direction	Miles	Highest Direction	Date
Aberdeen, Md.	29.92	30.23	18	29.51	7	75	63	72	274	61	6.2	s.	27	w.	27
Baltimore Md.	29.90	30.23	11	29.53	7	68	52	62	276	62	9.2	sw.	28	nw.	28
Elkins, W. Va.	29.95	30.25	1	29.66	7	82	54	63	280	63	4.9	nw.	30	sw.	27
Harrisburg, Pa.	29.90	30.21	18	29.54	7	71	54	61	305	68	6.9	w.	30	nw.	28
Norfolk, Va.	29.95	30.27	1	29.57	7	79	57	72	290	66	11.3	s.	32	w.	28
Philadelphia, Pa.	29.91	30.25	11	29.49	7	67	50	59	293	65	11.4	sw.	31	n.	27
Pittsburgh, Pa.	29.93	30.19	1	29.66	27	70	48	54	324	72	8.8	w.	42	s.	20
Washington, D. C.	29.91	30.23	3	29.53	7	71	53	61	286	64	6.1	sw.	19	sw.	27

† Velocity of wind in miles per hour by 4-cup anemometer.

### COMPARATIVE DATA FOR MARYLAND AND DELAWARE FOR JUNE

Years.	Temperature			Precipitation				Number of days				
	Mean	Highest	Lowest	Average	Greatest local	Least local	Greatest 24-hour rain	Average snow-fall	Rainy	Clear	Partly cloudy	Cloudy
Normals..	70.8			3.95				T.	10	14	10	6
Extremes..	104	25		13.87	0.10	6.00						
1895.....	73.2	102	37	3.92	7.86	0.75	2.20	0.0	8	16	10	4
1896.....	70.4	96	31	3.20	6.44	0.87	2.70	0.0	10	10	12	8
1897.....	68.6	97	29	2.82	6.47	0.82	2.92	0.0	9	11	13	6
1898.....	71.9	100	35	1.74	3.99	0.54	2.68	0.0	6	16	10	4
1899.....	73.5	102	36	2.90	6.24	1.05	2.56	0.0	7	17	7	6
1900.....	71.5	100	36	4.69	10.94	1.48	3.69	0.0	9	14	9	7
1901.....	71.1	102	32	3.08	6.72	0.90	2.90	0.0	8	18	7	5
1902.....	70.1	104	31	4.91	9.00	1.89	5.75	T.	9	14	11	5
1903.....	66.3	96	35	5.48	13.87	2.10	6.00	0.0	13	6	11	13
1904.....	70.2	99	30	4.53	9.94	2.02	3.20	0.0	12	12	10	8
1905.....	71.2	102	25	4.44	7.61	1.80	2.00	0.0	10	13	11	7
1906.....	72.0	101	31	6.12	12.30	3.05	4.95	0.0	15	9	14	7
1907.....	64.9	96	32	5.71	8.40	3.49	3.56	0.0	12	11	10	9
1908.....	70.6	99	39	2.12	4.00	1.06	3.95	0.0	5	18	9	3
1909.....	71.8	98	32	5.04	10.45	2.72	2.20	0.0	14	12	9	9
1910.....	67.9	99	30	5.81	8.08	3.85	2.98	T.	14	11	10	9
1911.....	71.6	103	39	4.08	7.65	1.67	2.87	0.0	12	13	11	6
1912.....	69.4	99	25	3.80	7.35	1.71	2.43	0.0	10	13	10	7
1913.....	71.2	100	27	2.27	5.06	0.78	3.55	0.0	7	16	9	5
1914.....	72.3	101	26	3.82	10.60	1.27	3.74	0.0	10	16	10	4
1915.....	68.5	98	31	5.07	7.97	1.53	4.21	0.0	10	13	12	5
1916.....	67.2	95	33	5.91	11.74	2.46	4.22	0.0	12	13	10	7
1917.....	70.3	97	32	4.12	6.36	1.51	3.83	0.0	10	16	10	4
1918.....	68.8	99	34	2.40	4.37	1.28	2.00	0.0	8	15	9	6
1919.....	72.1	98	40	3.11	5.47	0.84	3.00	0.0	8	15	9	6
1920.....	70.2	98	34	5.37	8.27	2.86	3.02	0.0	11	13	11	6
1921.....	72.4	102	34	2.50	6.49	0.10	3.03	0.0	7	18	9	8
1922.....	72.0	97	35	5.14	9.25	2.05	3.13	0.0	12	12	10	4
1923.....	73.7	102	34	2.97	7.65	1.15	2.28	0.0	9	19	7	4
1924.....	69.3	99	33	5.27	8.35	2.74	3.01	0.0	14	12	10	8
1925.....	75.6	104	36	2.30	8.27	0.39	3.87	0.0	7	16	11	3
1926.....	67.6	98	35	2.65	4.89	1.45	2.08	0.0	12	12	10	8
1927.....	66.8	98	31	3.54	5.12	1.97	2.32	0.0	9	15	9	6
1928.....	69.1	94	34	5.78	11.57	2.45	5.30	0.0	16	7	12	11
1929.....	70.4	98	31	4.83	8.48	1.89	3.66	0.0	10	16	10	4
1930.....	72.2	99	26	3.27	5.95	1.36	2.35	0.0	9	18	8	4
1931.....	70.8	102	35	3.43	5.93	1.37	4.00	0.0	8	15	10	5
1932.....	70.8	95	30	3.81	6.80	1.24	3.53	0.0	10	13	10	7

Climatological Data, June, 1932

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.					Precipitation, in inches			Number of days			Prevailing direction of wind	Observers				
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)			With precip. 0.01 in. or more	Clear	Partly cloudy	Cloudy
<i>Maryland</i>																				
Aberdeen	Harford	80	14	71.3	+0.5	92	27	43	8	34	3.66	-0.08	1.62	0.0	8	10	9	11	s.	U. S. Army.
Annapolis	Anne Arundel	45	67	72.4	-0.8	91	27	46	8	32	3.52	-0.65	1.32	0.0	9	13	10	7	sw.	Louis E. Foster.
Baltimore*		115	62	73.6	+0.9	93	26	52	8	27	2.91	-0.97	1.19	0.0	10	11	10	9	sw.	U. S. Weather Bureau.
Bell†	Prince Georges	151	12	71.4	0.0	94	5	38	8	44	4.37	+0.98	1.69	0.0	9	15	8	7	sw.	Bureau Plant Industry.
Boys.	Montgomery	375	13	69.6	-1.6	92	26	35	8	41	3.04	-0.73	0.98	0.0	8	15	9	6	s.	Ralph F. Staley.
Cambridge (near)	Dorchester	25	39	72.2	-1.2	91	†27	50	†8	32	5.70	+1.92	1.40	0.0	7	16	7	7	sw.	Matt Harding.
Cecilton	Cecil	85	14	70.4	-1.5	91	27	45	8	33	3.43	+1.21	1.30	0.0	7	13	11	6	sw.	James Reese Short.
Cheltenham	Prince Georges	230	32	72.0	+1.0	93	†27	43	8	39	2.30	-2.12	1.43	0.0	8	15	7	8	sw.	Geo. Hartnell.
Cheswold	Washington	530	35	69.4	+0.2	92	5	34	8	41	2.45	-1.67	0.67	0.0	9	10	13	7	nw.	D. Paul Oswald.
Clear Spring	do	600	35																	Mrs. Anna Bevan Cohill.
Coleman††	Kent	80	35	70.8	-1.0	91	†26	49	8	28	4.10	+0.40	1.30	0.0	7	16	6	8	sw.	Walter B. Harris.
College Park	Prince Georges	87	46	72.0	+0.9	93	27	39	8	42	3.82	-0.14	2.64	0.0	8	15	8	7	sw.	Prof. Thos. H. White.
Crisfield	Somerset	5	13	73.7	+0.5	90	†22	50	8	33	5.32	+1.91	1.37	0.0	9	13	11	6	sw.	A. B. Cochrane.
Cumberland	Allegany	623	60	71.8	+1.4	94	4	42	8	42	3.05	-0.95	0.52	0.0	11	13	11	6	sw.	Harvey H. Weiss.
Darlington	Harford	309	42	70.5	+0.5	91	5	42	8	31	1.59	-2.39	0.62	0.0	5	10	12	8	sw.	Fred. C. Jones.
Easton	Talbot	35	42	72.1	+0.8	92	27	44	8	33	3.90	+0.14	0.91	0.0	9	14	8	8	sw.	Clement E. Bray.
Elkton	Cecil	28	6	70.7		93	7	39	8	35	5.66		2.10	0.0	9	13	11	6	sw.	H. W. Bouchelle.
Emmitsburg	Frederick	720	64																	Mt. St. Mary's College.
Fallston††	Harford	450	63	70.6	+1.1	94	26	41	8	33	4.30	+0.24	1.53	0.0	12	10	13	7	sw.	Miss Dora Curtiss.
Ferry Landing††	Calvert	110	16	72.0	-0.1	92	75	45	8	33	2.07	-1.71	0.92	0.0	6	13	9	8	sw.	Thos. J. Bourne.
Frederick	Frederick	325	58	73.2	+1.3	95	†4	39	8	41	1.24	-3.14	0.58	0.0	7	13	10	7	w.	August T. Brust.
Friensburg	Garrett	1,501	14	65.0	0.0	87	3	33	8	41	6.80	+1.87	2.20	0.0	11	10	15	5	sw.	Joab J. Friend.
Frostburg	Allegany	1,929	31	68.2	+0.7	89	5	34	8	43	5.59	+0.66	2.29	0.0	14	10	13	7	w.	T. F. Lewis.
Grantsville	Garrett	2,351	39	63.5	-0.1	85	4	30	8	38	3.94	-0.54	0.69	0.0	15	9	12	9	w.	Floyd J. Miller.
Great Falls††	Montgomery	200	43	71.9	+0.9	94	30	38	8	44	2.21	-1.56	0.80	0.0	9	14	9	7	sw.	Chas. E. Sullivan.
Hancock (Tonoloway)	Washington	455	22	69.6	-0.9	92	†4	34	8	47	5.07	+0.75	1.03	0.0	12	13	11	6	sw.	American Fruit Growers.
Hancock (City)	do	421	8								3.77	-0.55	1.05	0.0	9					William R. Murray.
Keedysville	do	400	28	72.6	+1.5	95	†4	39	8	43	2.16	-1.94	0.65	0.0	8	12	11	7	sw.	J. A. Miller.
La Plata	Charles	190	12	71.2	-1.4	93	†27	44	8	38	2.34	-1.63	0.70	0.0	9	15	7	8	sw.	Walter M. Page.
Lanrel	Prince Georges	320	38	70.9	+0.2	93	5	42	8	36	4.21	+0.17	1.58	0.0	12	15	8	7	sw.	Evan G. Chaney.
Lutherville	Baltimore	340	6	70.5		94	26	35	8	41	4.90		2.25	0.0	13	12	8	10	sw.	August W. Clark, P. M.
Maryland Line	do	840	8	69.8		90	†4	40	8	32	4.37		1.70	0.0	11	11	9	10	w.	Chester L. Fulton.
Mechanicsville	St. Marys	165	6								2.64		0.78	0.0	5	14	8	8	sw.	Zach S. Graves.
Millington	Kent	27	35	71.1	-0.1	92	†26	42	8	36	2.71	-0.98	1.47	0.0	10	15	9	6	s.	Henry L. Higman.
Oakland	Garrett	2,481	33	64.4	+1.1	86	5	31	9	44	5.77	+1.15	1.26	0.0	13	9	15	6	w.	R. E. Weber.
Parkton	Baltimore	780	2	69.7		91	†25	38	8	35	3.29		1.39	0.0	12	-11	9	10	nw.	C. B. Cornell.
Pearcy	Allegany	900	6	70.0		91	5	39	8	37	3.48		1.90	0.0	11	13	11	6	w.	American Fruit Growers.
Pleasant Hill††	Baltimore	660	8								4.60		1.05	0.0	11	12	8	10	nw.	J. E. Henry.
Pocomoke City	Worcester	37	27								3.58	-0.09	1.57	0.0	8	13	11	6	sw.	Wm. H. Dryden.
Princess Anne	Somerset	17	57	70.7	-0.4	90	†27	43	9	35	6.09	+2.37	2.67	0.0	7	13	11	6	sw.	James R. Stewart.
Ridgely	Caroline	57	11	71.8	+0.2	92	27	43	8	35	6.08	+2.38	3.53	0.0	10	15	8	7	sw.	Albert White.
Rock Hall	Kent	25	18	72.5	+0.1	93	75	44	8	35	2.03	-1.50	0.75	0.0	9	16	8	6	nw.	Charles Judefind.
Sallsbury	Wicomico	23	27	72.8	+0.7	91	75	47	8	31	4.10	+0.31	1.22	0.0	10	15	9	6	sw.	Homestead Dairy Farms.
Sines (Deep Creek)	Garrett	2,040	5	62.6		84	†3	33	9	42	5.61		1.89	0.0	12	8	13	9	sw.	C. E. MacMurray.
Snow Hill	Worcester	15	2	73.0		92	30	43	9	44	4.30		2.20	0.0	7	14	10	6	sw.	Richard Leake.
Solomons§§	Calvert	20	41																	J. J. Daley.
State Sanatorium	Frederick	1,460	24	70.0	+0.8	91	5	43	8	32	2.89	-2.08	1.03	0.0	12	12	10	8	sw.	Dr. V. F. Cullen.
Stevensville	Queen Annes	12	6	73.6		93	†26	51	8	30	3.71		1.70	0.0	7	13	9	8	s.	T. R. Price.
Towson	Baltimore	465	10								4.63	+0.92	2.00	0.0	10	11	10	9	sw.	Metropolitan District.
Western Port	Allegany	1,000	39	70.3	+1.1	93	4	39	8	43	4.09	+0.17	0.60	0.0	17					Norris Bruce.
Westminster	Carroll	770	23	70.5	-0.1	94	26	35	8	38	2.64	-1.06	0.86	0.0	9	12	8	10	sw.	Harry J. Mathias.
Woodstock	Baltimore	415	62	70.0	-0.8	93	26	37	8	41	3.56	-0.25	2.13	0.0	11	13	8	9	s.	Woodstock College.
<i>Dist. of Columbia</i>																				
Washington**		112	62	73.2	+1.0	93	27	49	8	35	2.84	-1.29	1.88	0.0	9	13	10	7	sw.	U. S. Weather Bureau.
<i>Delaware</i>																				
Bridgeville	Sussex	45	9	71.8	+0.6	92	5	45	8	36	3.40	-0.33	1.53	0.0	10	16	9	5	sw.	George Ray.
Delaware City	New Castle	12	46	71.7	-0.2	93	†5	43	8	33	3.25	-0.60	1.15	0.0	6	14	8	8	s.	James E. Maden.
Dover	Kent	34	43	72.1	-0.2	92	†26	46	8	33	2.96	-0.58	0.88	0.0	11	14	10	6	sw.	Arthur G. Livingston.
Milford	Sussex	20	50	73.0	+1.1	94	5	44	8	35	5.32	+1.60	2.34	0.0	11	15	10	5	sw.	Chas. J. Holzmueller.
Millsboro	do	20	40	72.6	+1.3	93	†28	44	9	37	2.65	-1.07	0.70	0.0	10	16	9	5	s.	Rev. Geo. W. Daugherty.
Wilmington§§§	New Castle	86	39								5.19	+1.37	2.70	0.0	12	13	9	8	nw.	Street Department.
Wilmington§§§§	do	260	21	70.7	-0.7	90	26	41	8	29	4.91	+1.09	2.41	0.0	12	13	9	8	nw.	Water Department.
<i>Means and extremes:</i>																				
For Maryland and District of Columbia				70.6	0.0	95	†4	30	8	47	3.81	-0.17	3.53	0.0	10	13	10	7	sw.	
For Delaware				72.0	0.0	94	5	41	8	37	3.77	+0.04	2.70	0.0	10	15	9	6	sw.	
For entire section				70.8	0.0	95	†4	30	8	47	3.81	-0.14	3.53	0.0	10	13	10	7	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have 10 or more years of record, but all complete reports are used in determining section or division means. Data in italics determined from surrounding stations. † Precipitation is less than 0.01 inch rain or melted snow. †† Post addresses of these stations are as follows: Of Bell, Glendale; of Coleman, Worton; of Fallston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Pleasant Hill, Owings Mills. ††† Also on other dates. \*Custom House, Gay and Water Sts. \*\*Weather Bureau Building, 24th and M Sts. †††† Prettyboy Dam. ††††† Drum Point Light station. †††††† Municipal Building. ††††††† Porter Reservoir.



Daily Temperatures for June, 1932

Table with columns for Stations, 1-31, and Mean. Rows list various locations in Maryland and Delaware with their daily temperature ranges and monthly averages.

§§ Instruments are read in morning; maximum temperature then read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Baltimore, Sines, and Washington are from midnight to midnight; other stations, except Cumberland are for 24-hour period ending late in afternoon, near sunset. Data in italics determined from surrounding stations. (W. B. Richmond, Va. 7-27-34-930)