

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

In Cooperation with Maryland State Weather Service

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

J. R. WEEKS

PRIOR: 5 CENTS A COPY; 50 CENTS A YEAR

VOL. XLI BALTIMORE, MD., JUNE, 1936 No. 6

GENERAL SUMMARY

This June was normal in temperature and sunshine, but was the third successive month with deficient rainfall. The total average rainfall for the section for April, May, and June was 8.14 inches, or 75 per cent of the normal.

Warm weather was interrupted by the cool spells of the 4-6th, 8-10th, 12-14th, and 29-30th, and the very cool, cloudy, easterly wind spell, with light to moderate rain, of the 22d-25th.

Thundershowers produced the bulk of the monthly rainfall, most of which fell during the first half of the month.

Monthly rainfall was unevenly distributed over the section. The area of least monthly rainfall, one to two inches, embraced most of northeastern Maryland, while the areas of greatest monthly rainfall, four to seven inches, were the extreme southern third of the section and the greater portion of western Maryland.

A thundergust on the 3d unroofed the Boonesboro High School. A falling tree, uprooted by a thundergust on the 3d at Baltimore, killed a negro boy. A thundergust on the 28th uprooted some trees at Abingdon.

Grains were mostly good, but were short in straw. Other crops and grasses were fair, except poor on the southern Eastern Shore, at the beginning of the month; they improved during the first decade, and were fair to good, except poor to fair on the southern Eastern Shore, during the second and third decades. Pastures were poor during the first decade, and poor to fair thereafter. Setting out tomato and sweet potato plants was finished. Setting out tobacco plants, planting late potatoes and other late crops, cultivating crops, and haying were in progress. During the first decade: Grains were filling out and ripening; early potatoes were blooming; and cherries were ripening. During the second decade: Harvesting peas ended on the Eastern Shore; barley was harvested; and cherries were picked. During the third decade: Wheat and rye harvests were well advanced in the eastern and central divisions, and began in western Maryland, except Garrett County; barley was being threshed and was yielding good; oats were headed well; digging early potatoes began,

(Continued on page 23)

TEMPERATURE

The monthly mean for the section, 70.9°, is 0.1° above normal. The highest monthly mean was 73.8° at Solomons; the lowest, 62.0° at Sines. The highest temperature, 99°, occurred at Keedysville, on the 3d; the lowest, 34°, at Oakland and Sines on the 5th. The greatest local monthly range was 59° at Hancock; the least, 36° at Solomons. The greatest daily range was 49° at Western Port on the 1st.

PRECIPITATION

The monthly average for the section, 3.19 inches, is 0.85 inch below normal. The greatest monthly amount was 6.80 inches at Frostburg; the least, 1.12 inches, at Coleman. The greatest 24-hour amount was 3.13 inches, at Dover, Del., on the

11-12th. The average number of days with 0.01 inch or more of precipitation, 10, is normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light.—3, 4, 8 to 15, 17, 19, 20, 21, 24, 25, 28, 30. *Fogs, dense.*—17, 19, 20, 24.
Hail, light.—Princess Anne, 4; Boyd's, 11; Cumberland and Frederick, 18; Millington and Wilmington, 28.
Hail, moderate.—Picardy, 18th; 4 p.m. from southwest; path one-quarter mile wide; hailstones, size of bean to marble; damage to crops, \$4,000. Princess Anne, 30th; 5:30 p.m., from southwest; path about one mile wide; hailstones as large as pigeon egg; slight damage to crops.
Halo, lunar.—Baltimore, 1. *Halos, solar.*—Baltimore, 1, 12, 18, 22.
Sundog.—Chewsville, 3. *Thundergusts, high.*—3, 11, 28, 30.
Thunderstorms.—3, 4, 7, 10, 11, 12, 13, 14, 18, 19, 27, 28, 30.
Tide, high.—Western shore of Chesapeake Bay, 17-18.
Winds, high.—2, 17, 18, 21.

PRESSURE, HUMIDITY, SUNSHINE AND WIND

Stations	Atmospheric pressure reduced to sea level					Wind				Mean relative humidity		Percentage of sunshine
	Average	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	8 a. m.	Local n h	
Aberdeen, Md.	29.93	30.24	22	29.57	28	9.8	37	n.	28	76	66	66
Annapolis, Md.	29.92	30.22	22	29.56	28	8.1	32	nw.	3	72	60	73
Baltimore, Md.	29.92	30.23	23	29.57	28	10.3	32	nw.	3	68	54	60
Elkins, W. Va.	29.94	30.22	5	29.65	1	5.2	32	nw.	30	78	48	59
Harrisburg, Pa.	29.91	30.24	23	29.59	1	7.2	25	sw.	18	70	53	58
Norfolk, Va.	29.94	30.18	22	29.59	28	9.0	31	se.	30	76	57	69
Philadelphia, Pa.	29.93	30.29	23	29.57	28	12.3	33	s.	18	72	55	62
Pittsburgh, Pa.	29.91	30.23	22	29.55	1	9.6	32	nw.	17	67	46	55
Washington, D. C.	29.92	30.20	22	29.56	28	6.2	22	nw.	11	70	51	61

COMPARATIVE DATA FOR JUNE

Year	FOR MARYLAND						FOR DELAWARE					
	Temperature			Precipitation			Temperature			Precipitation		
	Mean	Highest	Lowest	Average	Average snowfall	No. of days with .01 in. or more	Mean	Highest	Lowest	Average	Average snowfall	No. of days with .01 in. or more
1895	73.1	102	37	4.15	0.0	8	73.9	101	47	2.91	0.0	8
1896	70.3	100	32	3.88	0.0	11	70.8	97	42	5.27	0.0	10
1897	65.6	97	29	2.82	0.0	9	68.9	95	34	2.93	0.0	9
1898	72.0	100	35	1.58	0.0	6	71.5	97	49	3.04	0.0	7
1899	73.4	102	36	2.94	0.0	7	74.2	100	51	1.58	0.0	7
1900	71.5	100	36	4.70	0.0	9	72.2	95	45	4.54	0.0	6
1901	71.0	102	32	3.15	0.0	8	72.1	101	48	2.32	0.0	5
1902	70.0	104	31	4.79	T.	9	71.3	101	45	6.25	0.0	7
1903	66.3	96	35	5.71	0.0	13	66.5	91	46	3.45	0.0	11
1904	70.2	98	30	4.60	0.0	12	70.5	99	44	3.99	0.0	12
1905	71.2	102	25	4.50	0.0	10	71.2	99	43	3.88	0.0	9
1906	71.9	101	36	5.96	0.0	15	73.0	97	51	7.37	0.0	14
1907	64.8	96	32	5.75	0.0	12	65.6	94	43	5.44	0.0	11
1908	70.4	99	39	2.14	0.0	5	71.7	98	46	1.98	0.0	3
1909	71.8	98	32	5.06	0.0	14	72.1	98	48	4.57	0.0	13
1910	67.7	96	30	5.74	T.	14	69.2	95	45	6.37	0.0	14
1911	71.5	102	39	4.14	0.0	12	72.0	101	50	3.62	0.0	9
1912	69.2	99	28	4.07	0.0	10	71.0	95	42	2.91	0.0	8
1913	71.1	100	27	2.25	0.0	7	71.7	98	43	2.39	0.0	7
1914	72.3	101	26	3.93	0.0	10	72.8	101	45	3.09	0.0	10
1915	68.4	98	31	5.03	0.0	10	69.4	94	43	5.30	0.0	12
1916	67.0	95	33	6.23	0.0	12	68.3	89	45	3.95	0.0	10
1917	70.1	97	32	4.07	0.0	10	71.6	96	48	4.48	0.0	10
1918	68.7	98	34	2.31	0.0	8	69.3	99	46	2.92	0.0	8
1919	72.2	98	40	3.27	0.0	9	71.5	96	43	2.24	0.0	7
1920	70.0	98	34	5.34	0.0	11	71.0	97	49	5.57	0.0	11
1921	72.3	102	34	2.47	0.0	7	72.6	100	42	2.73	0.0	6
1922	72.8	97	38	5.12	0.0	12	73.5	93	50	5.39	0.0	14
1923	73.5	102	34	3.06	0.0	9	74.8	100	44	2.37	0.0	8
1924	69.3	99	33	5.20	0.0	14	69.3	95	48	5.80	0.0	14
1925	75.4	104	36	2.37	0.0	7	77.5	102	45	1.81	0.0	7
1926	67.4	98	35	2.67	0.0	12	68.8	97	43	2.54	0.0	11
1927	66.7	98	31	3.55	0.0	9	67.2	95	42	3.44	0.0	9
1928	68.9	94	34	5.79	0.0	18	70.5	92	48	5.70	0.0	7
1929	70.2	98	31	5.00	0.0	10	71.6	97	41	3.38	0.0	9
1930	72.0	99	26	3.36	0.0	9	73.8	97	35	2.54	0.0	8
1931	70.7	102	35	3.38	0.0	8	71.9	98	49	3.76	0.0	7
1932	70.6	95	30	3.81	0.0	10	72.0	94	41	3.77	0.0	10
1933	72.4	102	28	2.73	0.0	8	73.4	100	43	2.70	0.0	7
1934	74.6	105	42	3.29	0.0	7	75.7	101	53	2.90	0.0	7
1935	70.4	97	34	4.49	0.0	12	71.2	95	46	5.16	0.0	11
1936	70.8	99	34	3.09	0.0	10	71.5	95	47	4.05	0.0	10
Period	70.7	105	25	4.07	T.	10	71.5	102	34	3.80	0.0	9

Climatological Data for June, 1936

Table with columns: STATIONS, COUNTIES, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall), Number of days (Clear, Partly cloudy, Cloudy), Prevailing direction of wind, OBSERVERS.

The departures from normal temperatures are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. 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, Wornton; of Palston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Mt. Savage Summit, Frostburg; of Picardy, Paw Paw, W. Va.; of Pleasant Hill, Owings Mills; of Sines, Oakland. *Custom House, Gay and Water Sts. **Weather Bureau Building, 24th and M Sts. †Also on other dates. ‡Northwest of Frostburg. §Prettyboy Dam. ¶Municipal Building. ††Porter Reservoir.

ERRATA

January, 1936. —Page 2: Elkton, departure mean temperature published -10.1, should be -6.7; Maryland Line, rainfall departure, published +2.50, should be +2.26. February, 1936. —page 6: Elkton, departure mean temperature published -11.6, should be -7.4; Maryland Line, rainfall departure published +0.29, should be -0.39. March, 1936. —Page 10: Elkton, departure mean temperature published +1.5, should be +4.6; Maryland Line, rainfall departure published +2.94, should be +2.84. April, 1936. —Page 14: Elkton, departure mean temperature published -4.9, should be -1.3; Maryland Line, rainfall departure published -1.10, should be -0.43. May, 1936. —Page 18: Elkton, departure mean temperature published -1.2, should be +1.5.

Daily Precipitation for June, 1936

Stations	Drainage basin	Day of month																														Total			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31		
<i>Maryland</i>																																			
Aberdeen**	Atlantic			.51	.09			T.	T.			.06		.01	.02	T.				.01	.08			.19	.15			T.	.22		.08		1.42		
Annapolis**	do.		.22	.09				T.	T.			.62		.11	.44	T.				.05	.02			.29	.40				.04	.01		.05		2.34	
Baltimore***	do.		.31	.16				T.	.01			.12		.01	.32	.01				.02	.01			.08	.29				.01	T.		.13		1.48	
Bell	do.			.26				T.	T.			.72	T.	.12	T.					T.	T.				.26				.01	T.		.21		1.57	
Boyd's	do.		.35	.51			.05	.08	T.			*	.34	1.30	.26	T.				.01	.03			.03	.50			.01	T.		.14		3.61		
Cambridge (near)	do.			.50								.80	.40	.30	T.					.10	.10			*	1.64	T.		.05	T.		.50		4.39		
Cecilton	do.																																		
Cheiltenham	do.			.20			.10	.05	.05			.32	T.	.46	T.					T.	T.			T.	.36			T.	T.		.68		2.22		
Chewsville	do.		.10	.24			.23	.16	T.		.54	T.	.90	T.						.02	T.			.07	.45			T.	T.		.24		2.95		
Clear Spring	do.																																		
Coleman	do.			.20								.03	*	.06	T.					*	.20			T.	.47	T.		T.	.06		.10		1.12		
College Park	do.		T.	.36				T.	.01	T.		.33	.05	.70	T.				T.	T.			T.	.22				.10		.22		1.99			
Conowingo Dam	do.		.67					T.	.05	T.		.28	.14	.13	T.					.02	.12			.22	.40			T.	T.	.10		2.16			
Crisfield	do.			.02	T.							.31	1.10	T.						.15	T.			1.02	.10	T.		T.	T.	.10		.60		3.58	
Cumberland	do.								.95	T.		.18	T.	.25	.12	.15				.30	.05			.28	.05	T.		T.	T.		.85		2.40		
Darlington	do.		T.	.79				T.	T.			.42	.67	T.						T.	.26			T.	.49	T.		T.	*		.20		2.83		
Dundalk**	do.		.19	.12				T.	T.			1.02		.01	.30	T.				.02	.01			T.	.10	.21		.01	T.		.20		2.19		
Easton	do.			.45								.82	1.80	.04	T.					.03	.07			T.	.14	.50	T.	.04	T.		.94		4.83		
Elkton	do.		.04	.25							.09	.60	T.							.21	.06			T.	.50	T.		T.	.05		.26		2.06		
Emmitsburg	do.		.50	.60				*	.60	T.		.20	T.	.80	.10					T.	.30			T.	.30			T.	T.		.20		3.60		
Fallston	do.		.17	.28				T.	T.			.08	.20	.10	.15					T.	.09			T.	.41	T.		T.	.07		.15		1.70		
Ferry Landing	do.			.16				T.	T.	.02		.73	T.	.32	T.					.18	.07			T.	.40			T.	T.		.46		2.34		
Frederick	do.		.43	.75			.45	.05	.03		.20	.12	1.60	.08						T.	.48			T.	.30			T.	T.		.25		4.74		
Friendsville	Ohio			.67			*	.65	T.	.05	.50	T.	.40	T.						.10	T.			T.	.10			T.	T.		.75		2.55		
Frostburg	Atlantic							.60	.43	T.	1.25	2.30	.05	1.30	T.					.05	.03			.14	.05			T.	T.		.60		6.80		
Grantsville	Ohio																																		
Great Falls	Atlantic			.78				*	.68	T.		.23	T.	.28	1.17					T.	T.			T.	.32			T.	T.		.24		3.46		
Hancock (Toloway)	do.		T.				.85	.68	T.	T.	3.00	.04	.16	.13	T.					.28	.01			T.	.14			T.	T.		.14		5.53		
Hancock (City)	do.							1.24	T.	T.		2.09	.02	.09						.02	.31			T.	.30			T.	T.		.14		4.11		
Keedysville	do.		.27	.58			.23	.11	T.	T.	.77	T.	.68	T.						.03	T.			T.	.06	.78			T.	T.		.28		3.66	
La Plata	do.			.16				.10	.04	.03		.48	.58	.98	.42	T.				T.	.40			T.	.06	.28			T.	T.	.14		.85		4.47
Laurel	do.		.21	.27				T.	.08	T.		.39	.08	T.	.27	T.				T.	T.			T.	.01	.20			T.	T.		.17		1.69	
Lutherville	do.		*	.33				T.	T.	T.		.15	.30	.25	.60					.20	1.05			T.	.40	T.		T.	T.		.15		3.43		
Maryland Line	do.		.22	.24				T.	T.	T.		T.	.10	.48	.08	T.				T.	.27			T.	.65	T.		T.	T.		.18		2.22		
Millington	do.		.05									*	.33	.03	T.					.08	.30			T.	.07	.45	.01		.05	.15		.15		1.67	
Mt. Savage Summit §	do.		T.				.65	.53	T.	.34	1.57	T.	.44	T.					.03	.03	T.			.14	.05			T.	T.		.41		4.19		
Oakland	Ohio						.45	.46	T.	.86	.45	T.	.37	T.						.03	T.			T.	.08			T.	T.		.25		2.95		
Parkton§§	Atlantic		.13	.24				T.	T.	T.		.12	.35	.04	.07	T.				.12	.87			T.	.80	T.		T.	T.		.22		2.96		
Picardy	do.							.38	.10	T.	.87	T.	1.25	T.						1.10	T.			T.	.23			T.	T.		.43		4.36		
Pleasant Hill	do.		.15	.23				T.	T.	T.		*	.24	*	.38	T.				T.	T.			T.	.60	T.		T.	T.		.24		1.84		
Princess Anne	do.		1.15					T.	T.	T.		.10	1.95	.25	T.					.60	.12			T.	.83	.21	.05	T.	T.		.58		5.84		
Ridgely	do.			.14				1.15	.22	.06	T.		1.15	.22	.06	T.				.02	.42			T.	.03	.48			T.	T.	.07		.35		2.93
Rock Hall	do.			.17								.55	.02	.97	T.					.03	.03			T.	.04	.40			T.	T.	.05		.25		1.57
Salisbury	do.			.83	.24							T.	2.50	.22	T.					*	.29			T.	*	.85	T.		T.	T.	.70		5.63		
Sinco**	Ohio		.04				.41	.30	T.	.82	.17	T.	.22	T.						.30	T.			T.	.04	.02		T.	T.		.70		3.08		
Snow Hill	Atlantic			.10	.20				T.	T.		1.70	.70	T.	T.					T.	T.			T.	.50	.10		T.	T.		1.10		4.40		
Solomons	do.			.37				T.	T.	T.		1.50	.19	.45	T.					.10	T.			T.	.17	.94	.03		T.	T.		1.10		3.85	
State Sanatorium	do.		*	*				T.	*	T.		*	T.	2.18	T.					T.	.30			T.	.68			T.	T.		.25		3.41		
Stevensville	do.		*	.55				T.	T.	T.		.20	T.	T.	.01	T.				.03	T.			T.	.70	T.		T.	T.		.50		1.99		
Takoma	do.		.36	.25				T.	.11	T.		.23	.44	.10						T.	T.			T.	.17	T.		T.	T.		.40		2.06		
Towson	do.		*	.32								.10	T.		.70					.03	T.			T.	.10	.41	T.		T.	T.		.17		1.83	
Western Port	do.			.02			1.00	.40	T.	.15	1.03	.50	.25	.01						.28	T.			T.	.05			T.	T.		.32		4.01		
Westminster	do.		.21	.39			.26	.70	.04		.21	T.	.53	.12	T.					T.	.33			T.	.68			T.	T.		.20		3.67		
Woodstock	do.		.42	.45				.02	.03	T.		.07	T.		.22	T.				T.	T.			T.	.36			T.	T.		.12		1.77		
<i>District of Columbia</i>																																			
Washington***	Atlantic		.40	.06			.03	.07			.21	T.	.34	.14						T.				.07	.17			T.		.80		2.29			
<i>Delaware</i>																																			
Bridgetown	Atlantic			.25	T.							.51	.69	T.	T.					.04	.11			T.	.48	.25	.11		.12	.15		.61		3.27	
Delaware City	do.			.20								.60	1.15	.10	T.					* 1.10				T.	1.50	T.		T.	.50		.20		5.35		
Dover	do.			.20							.04		3.13	.23	.05	T.					.16	.19			T.	.41	.03		T.	.02		.13		4.59	
Millford	do.			.14	.18							.61	.45	.09	T.					.29	.40			T.	.06	.52	.09		T.	T.		.72		3.55	
Millsboro	do.			.13								1.40	.37	T.						*	.69			T.	.44	.30		T.	T.		.70		4.03		
Wilmington§§§	do.			.10								1.45	1.00	T.	T.					.46	.43			T.	.42	T.		T.	T.		.24		3.60		
Wilmington§§§§	do.			.14								.48	.79	.01	T.					.40	.52			T.	.29	T.		*	.61		.1				

Daily Temperatures for June, 1936

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

§§Instruments are read in morning; maximum temperature then read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Annapolis, Baltimore, Dundalk, Snow Hill, and Washington are from midnight to midnight; other stations, except Cumberland and Cheltenham, are for 24-hour period ending late in afternoon, near sunset.