

U. S. DEPARTMENT OF COMMERCE  
SINCLAIR WEEKS, Secretary  
WEATHER BUREAU  
F. W. REICHELDERFER, Chief

# CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

SEPTEMBER 1955  
Volume LIX No. 9



ASHEVILLE: 1955

## MARYLAND AND DELAWARE - SEPTEMBER 1955

### WEATHER SUMMARY

#### GENERAL

Except for the threat of Hurricane "Ione", the weather during the month featured mostly typical temperatures and unseasonable dryness.

Average temperatures were about normal in Maryland and 1° below normal in Delaware. The monthly maxima in both States closely approached the lowest maxima ever recorded in September while minima were higher than in most Septembers. Otherwise, temperatures which ranged from 88° to 42° in Delaware, and from 91° to 32° in Maryland, were not unusual. The freezes in Maryland were localized and were recorded only at Cumberland Police Barracks on the 13th and at Oakland 1 SE on the 21st.

The dryness was widespread except in the southern portion of the Delmarva Peninsula where thunderstorms and "Ione" dropped appreciably more rain than elsewhere. Delaware averaged nearly an inch below normal with only one station reporting an above normal monthly total, all others for which comparative data are available being deficient by more than 1.4 inches. Amounts in Delaware ranged from 3.98 inches at Bridgeville 1 NW to 1.31 inches at Wilmington City Hall. Rainfall was considerably more variable in Maryland and the District of Columbia, ranging from 8.24 inches at Pocomoke City 4 SW, Md., to 0.40 inch at Dalecarlia Reservoir, D. C., and averaging 1.2 inches below the long-term value.

Excessive daytime cloudiness and greatly deficient sunshine prevailed generally except in western Maryland.

#### WEATHER DETAILS

General dryness prevailed and temperatures ranged from typical daytime warmth on some dates to the chill of early fall at other times. There were no protracted warm spells during the month. The warmest days, in terms of daily averages, were mostly between the 15th and 20th, but the 6th-7th and the 28th were moderately warm. Rains on the 19th and 20th were associated with the approach and passage of Hurricane "Ione" but amounts were

light except in the southern parts of Maryland and Delaware, since the storm curved out into the Atlantic just before reaching Chesapeake Bay. Light showers during the 22nd to 24th, the 28th, and the 30th were associated with a series of frontal zones which ushered in successive cool air masses, resulting in the lowest temperatures of the month at all Delaware stations, and at many locations in Maryland, during the last week of September.

#### WEATHER EFFECTS

The small remaining portion of the peach harvest was completed early in the month, and orchardists began getting started on the fall apple harvest by mid-month. Farmers were able to get considerable field work done, getting well along with the harvesting of lima beans, tomatoes, sweet and Irish potatoes, and starting to harvest corn, about 80% of which had matured by the end of the month. Harvest of the tobacco crop was just about completed by the end of the month. Much plowing, seedbed preparation, and seeding of alfalfa, grasses, and winter grains were accomplished.

Although the ground was generally in good condition for plowing, topsoil moisture was becoming deficient in some areas, principally in central and northern counties. Runoff receded from the excessive flows of August and was mostly in the normal range. Ground-water levels generally were about average or above.

#### STORMS AND FLOODS

After Hurricanes "Connie" and "Diane" in August, there was considerable concern when "Ione" threatened on the 20th. However, no damage was reported from any section of Maryland or Delaware as a result of this storm. Appreciable rain was limited to southern portions of the Delmarva Peninsula and southern Maryland where amounts as much as two to four inches were recorded during the 19th-20th. Tides were not appreciably above or below normal and seas were not unusually rough. Most streams remained at low stages and no flooding was reported.

J. E. Stork

# SUPPLEMENTAL DATA

MARYLAND AND DELAWARE  
SEPTEMBER 1955

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	1:30 a EST	7:30 a EST	1:30 p EST	7:30 p EST	Trace	01-09	10-49	50-99	100-199	200 and over			Total
ABERDEEN PHILLIPS FIELD, MD.	-	-	-	-	-	-	85	83	60	79	1	5	4	0	0	0	10	-	-
ANNAPOLIS USN ACADEMY, MD.	-	-	-	-	-	-	79	82	68	76	2	2	4	1	0	0	9	-	-
BALTIMORE WB AIRPORT, MD.	ENE	11	8.5	31	NE	19	86	83	57	71	5	5	2	0	0	12	52	5.8	
FREDERICK WB AIRPORT, MD.	-	-	-	-	-	-	-	-	-	-	4	1	3	0	1	0	9	-	-
WASHINGTON WB CITY	NE†	13†	6.5	21	NW	20	84†	81†	57†	71†	7	3	3	0	0	13	54†	6.0†	
WILMINGTON WB AIRPORT, DEL.	S	9	7.0	-	-	-	86	86	57	77	3	1	4	2	0	10	-	5.9	

† Airport Data

# COMPARATIVE DATA

Table 1

SEPTEMBER

Year	Temperature			Precipitation		Year	Temperature			Precipitation		Year	Temperature			Precipitation	
	Average	Highest	Lowest	Average	Average snowfall		Average	Highest	Lowest	Average	Average snowfall		Average	Highest	Lowest	Average	Average snowfall
MARYLAND						MARYLAND						MARYLAND					
1895	70.4	101	27	2.08	T	1917	82.5	93	27	2.82	0	1939	68.7	100	31	3.25	0
1896	66.3	94	28	4.39	0	1918	83.2	88	27	3.73	0	1940	64.4	95	25	3.35	0
1897	66.7	100	22	1.67	0	1919	68.1	100	31	2.34	0	1941	70.0	100	31	0.57	0
1898	89.3	100	29	1.67	0	1920	67.7	92	35	3.11	0	1942	68.0	95	19	3.03	0
1899	65.3	99	25	4.85	0	1921	72.5	99	37	3.48	0	1943	65.7	99	25	1.85	0
1900	72.0	103	29	3.47	0	1922	68.6	100	27	2.61	0	1944	67.9	95	32	4.86	0
1901	66.4	94	29	3.08	0	1923	68.2	92	38	3.45	0	1945	70.5	94	27	5.57	0
1902	66.0	101	25	6.19	0	1924	62.9	101	30	6.06	0	1946	67.9	99	30	3.61	0
1903	66.0	98	24	1.97	0	1925	71.4	100	35	1.78	0	1947	67.9	95	22	2.98	0
1904	67.0	99	27	3.66	0	1926	67.8	93	35	5.15	0	1948	66.9	95	29	2.90	0
1905	67.1	94	24	2.68	0	1927	67.8	99	26	1.36	0	1949	64.6	93	28	3.22	T
1906	70.6	94	36	1.25	0	1928	63.1	92	28	4.45	0	1950	64.7	93	29	6.85	T
1907	68.2	95	30	6.21	0	1929	68.2	100	25	3.58	0	1951	67.9	98	23	2.51	0
1908	65.9	94	24	2.39	0	1930	72.9	102	33	1.31	0	1952	67.0	99	30	4.27	0
1909	65.4	92	23	3.35	0	1931	72.0	100	30	2.61	0	1953	67.8	105	26	3.13	T
1910	69.4	98	32	1.90	0	1932	67.9	106	25	2.20	0	1954	69.9	102	31	1.67	T
1911	69.2	95	30	2.80	0	1933	70.0	94	37	3.20	0	1955	67.6	91	32	2.15	T
1912	69.1	102	30	5.93	0	1934	68.5	92	36	9.36	0						
1913	66.5	102	22	2.65	T	1935	65.0	92	26	7.60	0						
1914	64.6	98	21	1.20	0	1936	69.3	97	29	2.14	0						
1915	69.2	98	31	2.26	0	1937	64.1	96	26	1.75	0						
1916	65.1	98	26	3.39	0	1938	65.6	92	32	5.80	0	All Years	67.5			3.36	T
DELAWARE						DELAWARE						DELAWARE					
1895	71.2	99	39	1.92	0	1917	63.5	91	37	3.35	0	1939	69.5	95	44	1.97	0
1896	67.1	93	36	3.96	0	1918	64.2	87	37	3.92	0	1940	65.6	91	32	3.20	0
1897	67.9	97	40	1.55	0	1919	68.3	94	40	2.23	0	1941	71.0	97	38	0.24	0
1898	70.3	97	44	3.35	0	1920	68.4	89	40	2.87	0	1942	69.3	92	32	2.75	0
1899	66.4	92	39	2.81	0	1921	73.4	98	45	2.16	0	1943	67.4	99	36	1.79	0
1900	71.6	95	43	2.75	0	1922	68.9	93	39	2.26	0	1944	69.9	96	39	6.36	0
1901	68.1	94	42	2.45	0	1923	68.8	88	39	3.93	0	1945	71.7	94	44	4.50	0
1902	67.4	92	42	6.14	0	1924	64.8	96	40	5.68	0	1946	68.8	94	40	2.91	0
1903	67.2	90	38	3.29	0	1925	72.3	94	39	1.06	0	1947	68.6	94	31	3.23	0
1904	67.5	95	33	3.21	0	1926	68.5	93	44	3.81	0	1948	67.1	91	38	1.95	0
1905	67.8	91	38	4.81	0	1927	68.0	96	38	2.04	0	1949	65.7	89	37	3.81	0
1906	72.2	98	47	1.51	0	1928	64.9	93	34	6.57	0	1950	65.1	93	36	5.95	0
1907	69.6	93	35	6.39	0	1929	69.4	96	40	3.99	0	1951	67.9	94	33	2.29	0
1908	66.8	90	40	2.49	0	1930	73.8	100	42	2.80	0	1952	67.7	98	37	2.69	0
1909	66.5	87	39	2.94	0	1931	73.5	98	43	2.00	0	1953	68.8	100	35	2.17	0
1910	69.9	96	46	0.76	0	1932	69.3	97	37	2.20	0	1954	69.1	95	40	4.09	0
1911	69.6	91	41	2.00	0	1933	71.6	94	46	3.44	0	1955	67.6	88	42	2.60	0
1912	70.2	102	39	4.65	0	1934	70.0	90	46	9.12	0						
1913	68.1	91	41	3.92	0	1935	66.2	87	38	10.97	0						
1914	66.5	97	34	0.68	0	1936	69.5	92	42	4.79	0						
1915	71.1	99	36	0.90	0	1937	65.4	93	38	1.48	0						
1916	66.5	94	38	3.64	0	1938	67.3	90	39	8.36	0	All Years	68.5			3.40	0

See Reference Notes Following Station Index



# CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE  
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TABLE 2 - CONTINUED

Station	Temperature											Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet, Hail			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	1/8 or More	1/2 or More	1.00 or More
										90° or Above	80° or Above	32° or Below	32° or Below										
TOWSON	78.4	55.5	67.0	.6	88	20	41	14+	43	0	0	0	0	1.15	- 2.12	.90	24	.0	0		2	1	0
UNIONVILLE	76.6	54.5	65.6	.6	87	6	39	26	76	0	0	0	0	1.59	- 1.29	.95	24	.0	0		3	1	0
VIENNA	78.8	59.1	69.0		87	7+	44	27	26	0	0	0	0	4.24		1.55	19	.0	0		4	3	1
VIERS MILL	79.1M	57.9M	68.5M		86	6+	41	14	26	0	0	0	0	1.19		.38	23	.0	0		4	0	0
WALDORF POLICE BRKS	79.5	58.9	69.2		88	6	42	14	27	0	0	0	0					.0	0				
WATERLOO POLICE BRKS	77.8M	57.7M	67.8M		87	20			40	0	0	0	0	1.03		.63	24	.0	0		3	1	0
WESTERN PORT	79.5	54.4	67.0	.3	91	15	41	13	39	2	0	0	0	2.30	- .52	1.85	24	.0	0		4	1	1
WESTMINSTER	75.2	55.5	65.4	- 2.0	85	6	40	26	69	0	0	0	0	1.53	- 2.22	.98	24	.0	0		3	1	1
WOODSTOCK	76.8	55.5	66.2	.1	87	20	40	27	62	0	0	0	0	1.92	- 1.63	.84	24	.0	0		3	2	0
DISTRICT OF COLUMBIA																							
DALECARLIA RESERVOIR DC	78.3	59.8	69.1		87	6	46	14+	28	0	0	0	0	.40		.16	28	.0	0		1	0	0
NATIONAL ARBORETUM D C	80.0	60.3	70.2		88	6	45	14	20	0	0	0	0	.82		.28	24	.0	0		3	0	0
U S SOLDIERS HOME D C	77.1	59.1	68.1		89	21	48	26	28	0	0	0	0	.82		.21	28	.0	0		3	0	0
WASHINGTON WB CITY DC	78.1	62.4	70.3	.4	89	6	50	14+	13	0	0	0	0	.69	- 3.67	.28	24	.0	0		3	0	0
MARYLAND AND D C																							
DELAWARE																							
BRIDGEVILLE 1 NW	77.4	58.3	67.9	.7	85	6+	43	27	38	0	0	0	0	3.98	.61	1.54	1	.0	0		7	3	1
DOVER	78.9	56.7	67.8	- 1.0	86	6+	47	27	18	0	0	0	0	1.82	- 1.86	.71	20	.0	0		5	1	0
GEORGETOWN 5 SW	79.1	58.0	68.5		87	7+	42	27	32	0	0	0	0	2.81		.89	1	.0	0		4	3	0
LEWES	76.8	60.0	68.4		85	7	44	27	27	0	0	0	0	3.83		1.35	6	.0	0		5	3	2
MIDDLETOWN 2 S														2.26				.0	0				
MILFORD	77.9	56.5	67.2	- 2.1	87	6	42	27	39	0	0	0	0	2.10	- 1.42	.83	1	.0	0		5	1	0
NEWARK COLLEGE FARM	77.2	57.3	67.3	.9	85	6+	42	27	51	0	0	0	0	1.42	- 1.94	.60	24	.0	0		3	1	0
SELBYVILLE	77.6	58.0	67.8		88	16	45	27	33	0	0	0	0	3.68		1.03	19	.0	0		7	2	1
WILMINGTON NEWCSTL WB AP	77.0	57.4	67.2	.8	86	20	45	26+	45	0	0	0	0	2.27	- 1.53	.76	24	.0	0		6	2	0
WILMINGTON PORTER RESVR	75.4	57.8	66.6	- 1.5	84	20	46	26+	52	0	0	0	0	1.83	- 1.79	.87	24	.0	0		4	1	0
STATE																							
SECTION																							
			67.6	.9										2.60	- .80			.0	0				
			67.6	.1										2.19	- 1.17			T	0				











# STATION INDEX

MARYLAND AND DELAWARE  
SEPTEMBER 1955

MARYLAND										DELAWARE									
Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time	Observer	Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time	Observer	Refer to tables
<p style="text-align: center;">1-CHESSAPRAKE; 2-COASTAL; 3-PATAPSCO; 4-PATUXENT; 5-POTOMAC; 6-SUSQUEHANNA; 7-YOUGHEGONY</p> <p style="text-align: center;">REFERENCE NOTES</p> <p>The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.</p> <p>Figures and letters following the station name, such as 12 SW, indicate distance in miles and direction from the post office.</p> <p>Observation times given in the Station Index are in local standard time.</p> <p>Delayed data and corrections will be carried only in the June and December issues of this bulletin.</p> <p>Monthly and seasonal snowfall and heating degree days for the preceding 12 months will be carried in the June issue of this bulletin.</p> <p>Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.</p> <p>Unless otherwise indicated, dimensional units used in this bulletin are: temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. Degree days are based on a daily average of 65° F.</p> <p>Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.</p> <p>Sleet and hail were included in snowfall averages in Table 1, beginning with July 1948.</p> <p>Amounts in Table 3 are from non-recording gages, unless otherwise indicated.</p> <p>Data in Tables 3, 5 and 6 and snowfall data in Table 7 are for the 24 hours ending at time of observation. See the Station Index for observation time.</p> <p>Snow on ground in Table 7 is at observation time for all except Weather Bureau and CAA stations. For these stations snow on ground values are at 7:30 A.M. E.S.T. With EQUIV in Table 7 means the water equivalent of snow on the ground. It is measured at selected stations when the depth of snow on the ground is two inches or more. Water equivalent samples are necessarily taken from different points for successive observations; consequently occasional drifting and other causes of local variability in the snowpack result in apparent inconsistencies in the record.</p> <p>- No record in Tables 3, 5, 6 and the Station Index. No record in Tables 2 and 5 is indicated by no entry.</p> <p>+ And also on a later date or dates.</p> <p>* Amount included in following measurement, time distribution unknown.</p> <p>† Data in the column formerly headed No. of Days 01 or more have been changed to No. of Days 10 or more effective January 1, 1954.</p> <p>‡ Thermometers are generally exposed in a shelter located a few feet above soil-covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.</p> <p>/// Gage is equipped with a windshield.</p> <p>AM Data based on observational day ending before noon.</p> <p>B Adjusted to a full month.</p> <p>C In the "Refer to Tables" column in the Station Index the letter "C" indicates recorder stations. These stations are processed for special purposes and are published later in Hourly Precipitation Data.</p> <p>E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of snowfall.</p> <p>‡ One or more days of record missing; see Table 3 for details of daily record. Degree day data, if carried for this station, have been adjusted to represent the value for a full month.</p> <p>R Amounts from recording gage (These amounts are essentially accurate but may vary slightly from the amounts to be published later in Hourly Precipitation Data).</p> <p>T Trace, an amount too small to measure.</p> <p>v Includes total for previous month.</p>																			

Additional information regarding the climate of Maryland and Delaware may be obtained by writing to any Weather Bureau Office or to the State Climatologist at Weather Bureau Airport Station, Friendship International Airport, Baltimore, Maryland.

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# MARYLAND AND DELAWARE

