

U. S. DEPARTMENT OF COMMERCE

SINCLAIR WEEKS, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

# CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

SEPTEMBER 1956

Volume LX No. 9



ASHEVILLE: 1956

## WEATHER SUMMARY

## GENERAL

Extremely low temperatures on the 21st, strong winds the 17th and 27th, and a sharp transition from summer to autumn on the 7th were the outstanding weather events of September.

Warm weather of the first week was far outweighed by cold snaps and long cool periods later in the month and average temperatures were appreciably lower than the long-term means at all stations. Temperature extremes in Maryland were 97° on the 1st at Chestertown and 23° on the 21st at Oakland 1 SE and Sines Deep Creek, while extremes in Delaware were 94° on the 1st and later dates at several stations and 32° on the 21st at Bridgeville 1 NW and Georgetown 5 SW.

Precipitation occurred at fairly frequent intervals during the month over most of the two-state area. Totals ranged from 1.85 inches at Easton Police Brks, Maryland, to 5.84 inches at Lewes, Delaware, and were within 1 inch of the long-term means at about 75% of the stations. The greatest amount in one day was 4.05 inches measured at Lewes, Delaware, on the 2nd with a runner-up of 3.10 inches at Dalecarlia Reservoir in the District of Columbia on the 27th.

## WEATHER DETAILS

Moderately high temperatures with some scattered showers and thunderstorms indicated a continuation of summer the first six days of September. Showers and thunderstorms were general throughout the area on the 6th and produced moderate to locally heavy amounts of rain. The Polar air mass of an extensive high pressure system spread eastward to the coast from the Carolinas to Maine during the night of the 6th-7th and ended the summer season with a 24-hour temperature drop of 10° or more. Minimum temperatures declined nightly as the High drifted south-eastward with its center passing over Maryland on the 10th. Frost formed in western Maryland and New Germany recorded a low of 31° on the 9th. Light rains accompanied the warm-up of the 11th-12th and the 13th-17th was a mild to moderately warm period with rainy weather beginning on the 14th. Thunderstorms developed to violent proportions in the Annapolis-Baltimore-Washington and Ocean City-Snow Hill areas during the afternoon and evening of the 17th.

Temperatures dropped sharply on the night of the 17th and an even colder air mass moving into the area to the accompaniment of rain the 19th-20th caused extremely low temperatures for so early in the fall on the 21st. The 28° minimum at Frostburg was the lowest temperature ever recorded there so early in the season based on a record beginning in 1898.

A rapid rise in temperatures on the 22nd peaked moderately high on the 23rd and showers were a part of the sequence as moderately cool weather was established over the area by the morning of the 24th. A clearing tendency on the 24th was reversed the next day as hurricane Flossy moved through southern Georgia and spread a cloud umbrella far ahead over the Middle Atlantic States. The rain pattern around the weakened hurricane spread into the southern portions of Maryland and Delaware during the afternoon of the 26th and covered the two-state area on the 27th. Rains became light and intermittent on the 28th as the storm moved northeastward from the Virginia Capes area and temperatures rose to about average values under partly cloudy skies by the 30th.

## WEATHER EFFECTS

Weather conditions were generally favorable for field

work such as filling silos, cutting hay, preparing land for seeding of rye, barley, and alfalfa. Tobacco harvesting was completed without unfavorable weather. The first general frost of the season on the 21st did varying amounts of damage over the two-state area. In Northern-Central Maryland tomatoes and snap beans were seriously affected. Here and in certain other localities the fall snap bean yield was considerably reduced and tomato harvesting ended sooner than expected. In western Maryland counties silage corn and Sudan grass sustained the greatest damage. On the Eastern Shore frost damage was light and confined mostly to fall snap beans with some scattered damage to soybeans. Field corn in eastern portions was generally too far advanced to be damaged by freezing temperatures.

As a result of the tropical disturbance Flossy, limited flood damage was reported on lower areas in the southern tip of the tobacco belt. On the Delmar Peninsula and in southern Maryland strong winds and driving rains blew corn over in many fields and interrupted harvesting activities. As a result of the soaking rains, soils in most parts of the two-state area were reported as wet at the end of the month.

## DESTRUCTIVE STORMS

Delaware:

2nd: One man killed and one injured by lightning near Lewes.

6th: Lightning and fire damaged a residence in New Castle County.

Maryland:

17th: Winds, rain and lightning enacted destructive roles during severe thunderstorms in the Washington-Baltimore-Annapolis and Snow Hill-Ocean City areas. Two deaths and five injuries were attributed to winds in these storms. Damage to property was considerable and the major portion of it was due to wind.

23rd: A series of thunderstorms accompanied by strong winds, hail and heavy rains damaged property in scattered localities of Washington County.

Southern Maryland and Delmar Peninsula:

26th-28th: Strong, gusty east and northeast winds caused tides to rise several feet above normal on the coast and in Chesapeake Bay as the center of the weakened hurricane Flossy moved through eastern North Carolina and out to sea through the Virginia Capes area. Rainfall was generally near 2 inches. Winds reached 63 mph in gusts at Ocean City, Maryland, and 45 mph in gusts at Annapolis U. S. Naval Academy.

For more detailed storm data see the September 1956 issue of Climatological Data, National Summary.

## FLOODS

None.

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# CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE  
SEPTEMBER 1956

TABLE 2 - CONTINUED

Station	Temperature											Precipitation													
	Average Maximum	Average Minimum	Average	Departure From Long Term Means	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Long Term Means	Greatest Day	Date	Snow, Sleet			No. of Days				
										Max.	Min.	30° or Above	32° or Below					32° or Below	Below	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
TONOLOWAY TOWSON	75.1	50.3	62.7	- 2.6	92	1	28	21	139	1	0	1	0	2.57	11	.39	27	.0	0	0	0	0	0	0	
UNIONVILLE	74.6	50.7	62.7		93	1	29	21	149	1	0	1	0	3.18		1.06	27	.0	0	0	0	0	0	0	
VIENNA	78.2	58.2	68.2		93	1	32	21	62	4	0	1	0	3.72		1.07	2	.0	0	0	0	0	0	0	
VIERS MILL	78.2M	54.5M	66.4M		93	1	32	21	95	2	0	1	0	4.10				.0	0	0	0	0	0	0	
WALDORF POLICE BRKS	79.0	54.0	66.5		95	1	32	21	101	3	0	1	0	2.65		1.29	27	.0	0	0	0	5	1	1	
WATERLOO POLICE BRKS	77.7	54.3	66.0		94	1	34	21	94	2	0	1	0	5.31		1.27	7	.0	0	0	0	4	3	0	
WESTERN PORT	75.5	51.2	63.4	- 3.0	90	1	30	21	135	2	0	1	0	2.84	.41	.75	27	.0	0	0	0	10	1	0	
WESTMINSTER	73.3	52.7	63.0	- 3.6	90	1	30	21	148	1	0	1	0	3.54	.19	1.13	28	.0	0	0	0	0	0	0	
WOODSTOCK	75.2	52.9	64.1	- 2.3	93	1	32	21	124	1	0	1	0	4.48	.72	1.41	6	.0	0	0	0	0	2	2	
DISTRICT OF COLUMBIA																									
DALECARLIA RESERVOIR DC	76.8	56.3	66.6		93	1	31	21	90	1	0	1	0	5.10		3.10	27	.0	0	0	0	7	1	1	
NATIONAL ARBETUM D C	79.6	57.5	68.6		95	1+	37	21	72	7	0	0	0	3.93		1.72	27	.0	0	0	0	9	3	1	
U S SOLDIERS HOME D C	76.7	56.5	66.6		93	1+	39	21	98	3	0	0	0	3.53		1.52	28	.0	0	0	0	1	1	1	
UPPER MARLBORO 3 NNW	76.9	54.1	65.5		93	1+	32	21	114	4	0	1	0	4.40		2.00	28	.0	0	0	0	9	4	1	
WASHINGTON WB CITY DC	76.4	58.7	67.6	- 2.3	95	1	41	21	79	1	0	0	0	3.89	.47	1.97	27	.0	0	0	0	7	2	1	
AVERAGE																									
DELAWARE																									
BRIDGEVILLE 1 NW	77.6	56.7	67.2	- 1.1	94	1	32	21	76	4	0	1	0	3.62	.43	1.54	2	.0	0	0	0	7	2	1	
DOVER	77.7	58.0	67.9	- 1.4	90	2+	40	21	72	2	0	0	0	4.20	.50	1.75	7	.0	0	0	0	2	2	0	
GEORGETOWN 5 SW	78.1	56.4	67.3		94	1+	32	21	94	4	0	0	0	3.91		.85	28	.0	0	0	0	8	2	0	
LEWES	76.3	57.0	66.7		94	2+	38	21	81	4	0	0	0	5.84		4.05	2	.0	0	0	0	7	2	1	
MIDDLETOWN 2 S	76.4	57.2	66.8		90	1+	37	21	92	2	0	0	0	3.38				.0	0	0	0				
MILFORD	77.8	56.5	67.2		94	1	36	21	85	3	0	0	0	2.29		.65	27	.0	0	0	0	8	1	0	
NEWARK COLLEGE FARM	75.7	54.4	65.1		89	1	33	21	108	0	0	0	0	3.28		.70	27	.0	0	0	0	9	3	0	
SELBYVILLE	76.6	57.2	66.9		91	2	37	21	79	3	0	0	0	3.63		1.22	7	.0	0	0	0	9	2	1	
WILMINGTON NCASTLE WB AP	74.0	55.1	64.6	- 3.4	90	1	37	21	120	1	0	0	0	2.77	1.03	.87	27	.0	0	0	0	7	2	0	
WILMINGTON PORTER RESVR	73.1	55.2	64.2		89	1	37	21	123	0	0	0	0	2.91	.37	1.14	6	.0	0	0	0	7	2	1	
AVERAGE																									
66.4 - 2.1																									

† DATA RECEIVED TOO LATE TO BE INCLUDED IN DIVISION AVERAGES

## SUPPLEMENTAL DATA

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	1.00-1.99	2.00 and over			Total
ABERDEEN PHILLIPS FLD., MD.	-	-	-	-	-	-	87	86	57	78	6	1	6	1	1	0	15	-	-
ANNAPOLIS USN ACADEMY, MD.	-	-	-	-	-	-	79	81	63	71	5	2	3	2	1	0	13	-	-
BALTIMORE WB AIRPORT, MD.	N	11	9.1	38	W	17	87	89	56	77	4	4	6	1	1	0	16	64	6.1
FREDERICK WB AIRPORT, MD.	-	-	-	-	-	-	-	-	-	-	2	5	4	2	1	0	14	-	-
WASHINGTON WB CITY	NW†	15†	6.6	34	NW	17	81†	81†	56†	68†	6	4	5	1	1	0	17	61†	5.7†
WILMINGTON WB AIRPORT, DEL.	N	10	9.8	-	-	-	86	85	56	74	4	4	5	2	0	0	15	-	6.7

† Airport Data





# DAILY TEMPERATURES

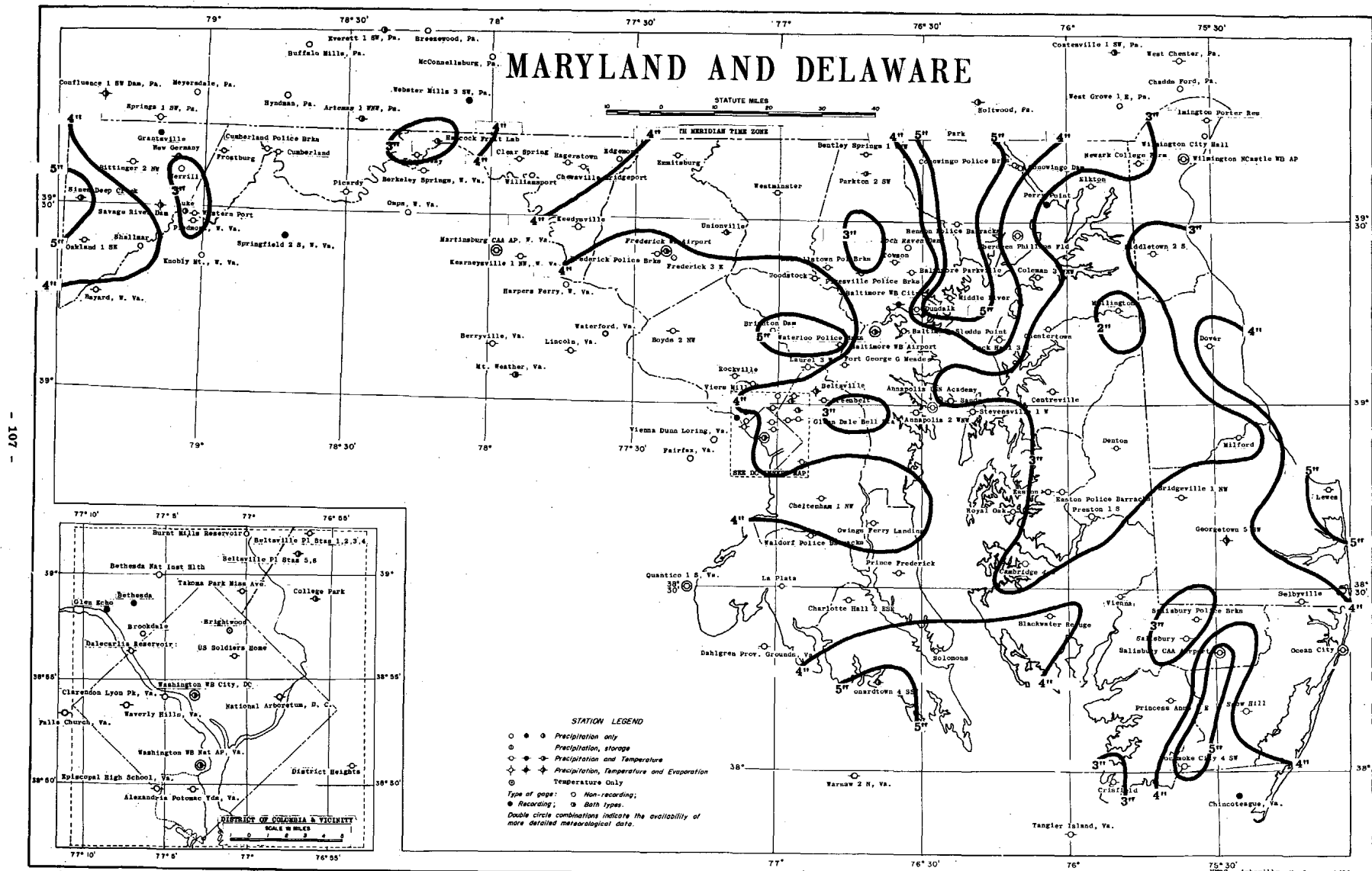
MARYLAND AND DELAWARE  
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Table 5 - Continued

Station	Day Of Month																															Average
	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	
EASTON	MAX 94	91	82	85	85	88	79	72	68	70	74	80	86	90	82	83	87	81	78	67	63	74	86	77	71	65	59	58	65	71	76.9	
EASTON POLICE BRKS	MAX 93	92	83	86	84	87	78	74	72	70	74	81	86	90	88	85	87	87	78	70	68	71	88	87	75	68	63	58	67	73	78.6	
ELKTON	MAX 91	88	84	86	85	83	74	71	69	71	78	81	85	89	78	80	87	78	73	66	63	71	87	78	72	68	57	55	64	70	76.1	
EMMITSBURG 2 SE	MAX 91	88	85	88	84	79	73	72	69	71	73	81	89	87	79	81	82	73	38	88	63	68	87	92	73	68	58	55	62	73	78.9	
FORT GEORGE G MEADE	MAX 93	90	84	86	86	84	73	71	68	71	76	83	88	90	81	85	87	81	69	68	65	74	87	80	72	68	59	56	65	73	77.1	
FREDERICK POLICE BRKS	MAX 92	91	84	88	84	82	74	70	70	69	78	80	85	86	81	82	83	83	70	70	63	68	86	85	73	70	58	57	62	74	76.3	
FREDERICK WB AIRPORT	MAX 93	82	83	87	84	83	71	70	66	69	75	80	87	85	73	80	83	68	71	62	63	70	86	71	70	62	51	56	61	75	73.9	
FROSTBURG	MAX 86	76	76	82	80	75	72	66	64	67	71	78	83	77	69	72	75	65	68	64	63	76	81	72	68	62	51	57	63	78	71.2	
GLENN DALE BELL STA	MAX 94	93	82	86	85	84	74	72	70	71	77	83	89	91	83	85	89	87	73	70	66	74	90	88	72	70	60	56	64	77	78.5	
GREENBELT	MAX 93	88	84	86	86	83	73	71	67	71	75	81	88	90	82	79	87	81	72	66	65	73	89	76	71	63	59	55	63	75	76.4	
HAGERSTOWN	MAX 91	85	82	86	86	82	75	69	69	70	73	81	89	82	79	79	79	71	70	69	63	73	87	83	69	65	57	61	68	74.9		
HANCOCK FRUIT LAB	MAX 91	90	80	82	85	85	76	72	70	66	70	75	80	78	80	87	82	63	79	80	67	72	80	86	78	87	72	70	60	63	73.8	
KEEDYSVILLE	MAX 94	83	85	87	88	78	73	72	68	69	76	78	85	86	78	78	82	71	69	65	65	67	86	76	71	63	54	55	58	73	74.3	
LA PLATA 1 W	MAX 94	88	84	87	87	88	72	71	69	73	80	83	88	91	82	85	88	82	73	70	66	76	88	78	74	65	60	67	69	76	78.0	
LAUREL 3 W	MAX 95	92	85	88	85	85	75	73	74	72	76	81	81	88	81	84	88	85	72	71	65	72	87	86	72	69	60	56	63	75	77.9	
LEONARDTOWN 4 SSW	MAX 95	90	83	85	84	85	78	73	73	69	76	81	86	89	83	85	86	78	73	72	66	77	84	82	71	69	62	59	63	73	77.7	
MIDDLE RIVER	MAX 90	88	82	85	83	83	72	70	68	69	74	77	81	89	76	84	87	70	73	68	61	71	86	75	70	63	57	64	68	74.8		
MILLINGTON	MAX 94	91	81	87	86	86	70	70	67	70	75	82	86	90	75	82	86	80	75	70	65	73	89	81	70	66	59	57	65	73	76.8	
NATIONAL ARBORETUM D C	MAX 95	95	89	90	90	85	75	74	71	72	77	83	90	91	84	87	89	86	78	70	65	75	90	88	73	70	61	57	65	76	79.6	
NEW GERMANY	MAX 91	85	81	87	86	86	70	70	67	70	75	82	86	90	75	82	86	80	75	70	65	73	89	81	70	66	59	57	65	73	76.8	
OAKLAND 1 SE	MAX 86	78	74	81	80	73	73	67	63	67	68	67	73	75	70	70	71	67	67	64	64	72	79	65	65	59	58	70	76	70.4		
OCEAN CITY	MAX 87	86	83	86	86	83	76	73	69	72	78	80	82	94	80	86	91	75	74	70	65	76	85	73	74	67	64	65	65	67	76.9	
OWINGS FERRY LANDING	MAX 93	91	80	85	84	85	71	72	70	70	74	81	86	91	79	84	86	80	72	65	64	75	88	78	72	64	58	56	64	73	76.4	
PARKTON 2 SW	MAX 88	83	81	84	80	80	71	69	65	68	73	78	84	86	62	82	83	67	68	60	62	70	85	69	69	59	52	54	62	69	72.2	
PICARDY	MAX 89	80	77	82	83	73	72	70	65	68	71	77	85	81	79	76	79	69	69	63	63	78	86	78	69	68	55	56	64	71	72.8	
PIKESVILLE POLICE BRKS	MAX 91	88	84	84	85	84	73	71	70	73	77	83	87	91	81	83	88	85	70	68	66	70	85	85	71	69	60	58	62	70	77.0	
POCOMOKE CITY 4 SW	MAX 90	91	80	82	83	86	78	72	68	71	74	78	82	86	80	85	82	75	71	69	65	72	84	75	71	66	64	64	67	70	76.2	
PRESTON 1 S	MAX 95	93	87	88	85	88	75	72	69	71	75	82	86	92	85	86	88	81	75	69	66	75	89	77	74	67	60	60	67	73	78.3	
PRINCE FREDERICK	MAX 95	92	84	84	83	89	77	72	67	68	76	80	87	92	80	85	90	83	78	67	64	77	87	81	74	65	61	56	66	75	77.6	
PRINCESS ANNE 1 E	MAX 91	90	90	85	85	86	84	78	72	71	73	79	84	88	87	86	87	85	73	71	66	74	85	83	73	73	61	64	66	72	78.6	
RANDALLSTOWN POL BRKS	MAX 90	87	83	84	83	82	73	71	69	70	72	80	89	85	80	80	85	82	70	68	62	70	85	85	70	68	60	60	63	71	75.8	
ROCK HALL 3 N	MAX 94	90	85	85	87	83	74	72	69	71	74	81	84	88	77	83	87	70	74	66	64	73	85	75	72	68	58	57	68	73	76.2	
ROCKVILLE	MAX 94	93	82	88	88	85	74	71	71	72	75	80	88	89	80	85	87	85	74	72	65	69	89	77	71	70	60	60	62	75	77.7	
ROYAL OAK	MAX 95	91	85	86	88	88	78	71	69	74	76	82	87	90	82	85	89	81	75	68	66	75	87	83	71	68	60	57	66	75	78.3	
SALISBURY	MAX 92	92	84	85	84	87	80	73	71	70	73	80	85	89	86	84	85	85	72	70	66	74	87	82	74	72	61	63	66	69	78.0	
SALISBURY POLICE BRKS	MAX 92	92	92	83	84	88	85	71	71	73	73	82	86	90	86	89	84	72	67	74	69	85	75	75	63	63	69	71	79.9			
SALISBURY CAA AIRPORT	MAX 94	92	79	83	80	83	72	70	67	72	74	81	85	87	86	83	86	70	72	65	66	73	88	83	72	64	61	62	66	71	76.2	
SANDY POINT	MAX 89	88	81	84	82	86	73	72	69	67	72	76	81	90	83	85	87	85	71	70	63	72	83	78	69	68	52	57	64	69	75.9	
SAVAGE RIVER DAM	MAX 87	85	74	75	80	80	73	63	65	65	67	70	77	85	76	68	74	74	62	69	53	61	75	83	66	68	55	49	57	64	70.0	



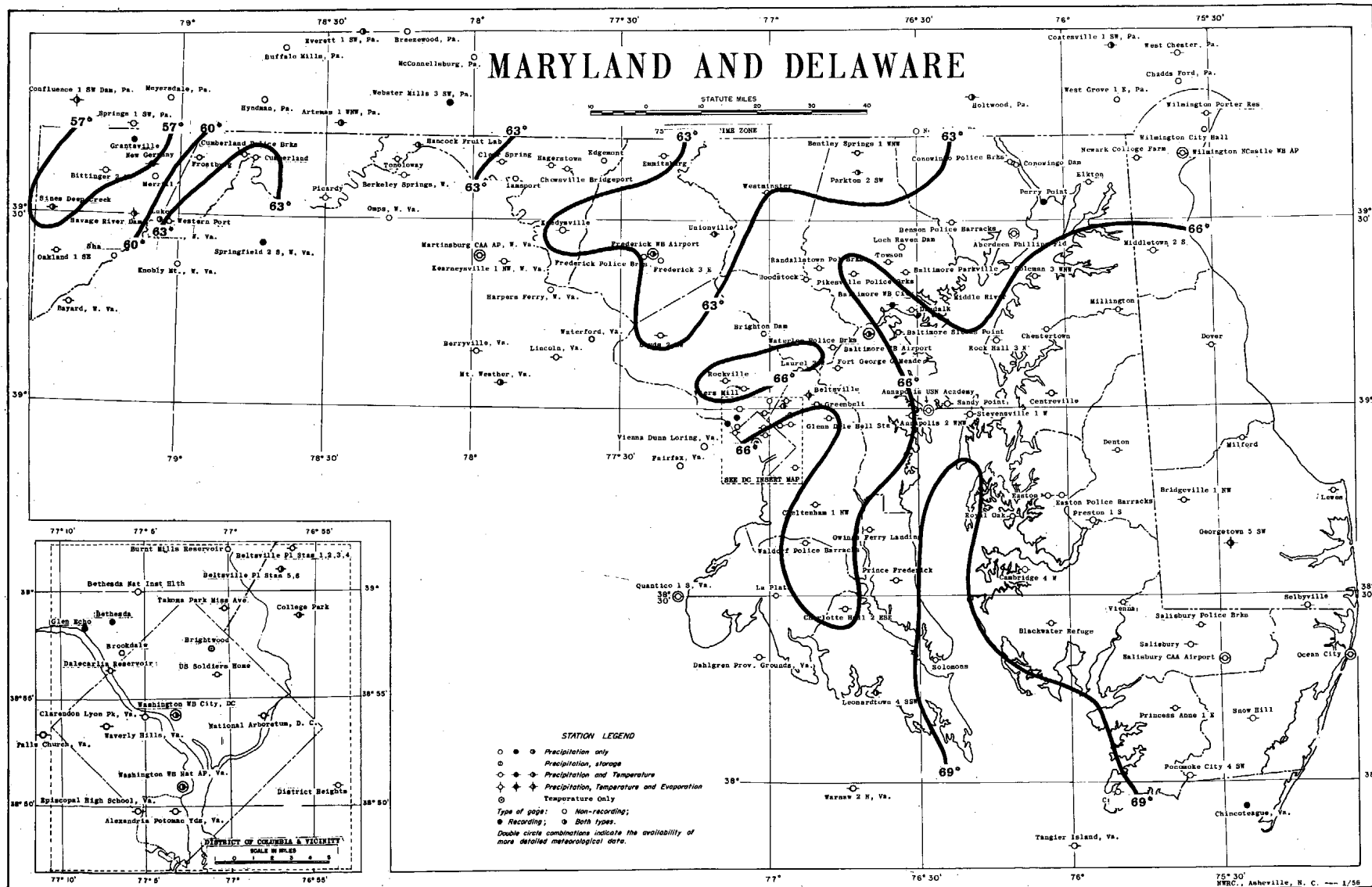




TOTAL PRECIPITATION

MARYLAND AND DELAWARE  
SEPTEMBER 1956

Isolines are drawn through points of approximately equal values. Hourly precipitation data from recorder substations will be available in the publication 'Hourly Precipitation Data'.



Isotherms are drawn through points of approximately equal values. Hourly precipitation data from recorder substations will be available in the publication 'Hourly Precipitation Data'.

