

U. S. DEPARTMENT OF COMMERCE  
JOHN T. CONNOR, Secretary  
WEATHER BUREAU  
ROBERT M. WHITE, Chief

# CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

ANNUAL SUMMARY 1964

Volume 68      No. 13



ASHEVILLE: 1965



# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

MARYLAND AND DELAWARE  
1964

Table 1-Continued

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	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	
SINES DEEP CREEK 2	29.4	1.2	24.6	- 3.9	37.3	2.9	47.3	1.1	57.3	1.2	63.6	- 0.6	66.6	- 1.1	62.6	- 3.5	57.6	- 2.0	43.9	- 5.4	41.4	3.3	32.9	3.6	47.1	- 0.3	
DIVISION	28.8	0.5	24.6	- 4.1	36.8	1.7	47.0	0.4	57.9	1.3	63.9	- 0.7	67.5	- 0.4	63.8	- 2.8	59.2	- 1.0	45.8	- 4.2	42.4	3.8	32.2	2.8	47.5	- 0.2	
DELAWARE																											
NORTHERN																											
MIDDLETOWN 1 WSW	-	-	-	-	44.1	1.8	50.6		64.6		72.4		75.9		72.3		68.3		53.7		48.3		38.6		-		
NEWARK UNIVERSITY FARM	33.3		32.2		44.1		49.9		64.4		72.4		76.0		71.2		67.5		52.8		47.6		37.6		54.1		
WILMINGTON CASTLE HB AP	33.2	- 0.2	31.6	- 2.2	43.1	1.8	49.4	- 2.7	64.3	1.6	72.1	0.7	75.8	- 0.2	71.5	- 2.8	67.2	- 0.4	52.8	- 3.8	47.6	2.2	37.3	2.2	53.8	- 0.3	
WILMINGTON PORTER RESVR	33.6		31.4		43.1		49.6		64.3M		71.5		75.0		71.2		66.8		53.3		48.3		37.0		53.8M		
DIVISION	33.4	- 0.5	31.7	- 2.6	43.4	1.7	49.9	- 2.4	64.4	1.5	72.1	0.6	75.9	- 0.1	71.6	- 2.7	67.5	- 0.5	53.2	- 4.0	48.0	2.0	37.6	2.0	54.1	- 0.4	
SOUTHERN																											
BRIDGEVILLE 1 NW	36.5	0.0	34.3	- 2.8	45.4	1.8	51.7	- 1.9	65.0	1.3	73.3	1.1	76.6	0.4	72.5	- 2.0	68.5	0.1	53.4	- 4.6	49.1	1.6	41.0	3.2	55.6	- 0.2	
DOVER	36.1	- 0.3	35.1	- 1.7	46.6	2.9	51.7	- 2.4	66.0	1.6	73.8	0.9	77.2	0.1	73.6	- 1.8	69.3	- 0.1	55.9	- 2.8	51.0	3.1	41.2	3.3	56.5	0.3	
GEORGETOWN 5 SW	37.1		35.0		46.4		51.8		66.8		73.0		77.1M		72.8M		68.4		53.9		49.1		42.0M		56.0M		
LEWES 1 SW	37.4		35.4		45.1		49.9		63.7		70.6		74.8		70.8		67.9		54.6		49.4		41.4		55.1		
MILFORD 3 WNW	36.6		34.7		46.5		51.6				72.1		76.3		72.7		68.2		53.7		48.5		40.0M				
SELBYVILLE	37.3		35.4		45.6		51.6		64.2		72.9		76.6		73.5		68.2		54.8		50.0		42.0		56.0		
DIVISION	36.8	0.0	35.0	- 2.2	45.9	2.1	51.4	- 2.3	64.7	0.8	72.6	0.2	76.4	- 0.2	72.7	- 2.2	68.4	- 0.5	54.4	- 4.0	49.5	1.6	41.3	3.2	55.8	- 0.3	

Division averages in the annual issue include delayed and corrected data and may differ slightly from values published in monthly issues.

A Special Weather Summary describing unusual weather in 1964 was included each month except: October and November issues of this publication.



# TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

MARYLAND AND DELAWARE  
1964

Table 2--Continued

Station	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	
LUKE	2.55		2.23		2.02		7.14		.71		2.43		3.56		5.22		4.45		1.03		1.65		2.08		35.07		
PICARDY	3.24		2.94		2.74		5.86		1.08		3.52		2.30		2.81		4.35		1.32		2.03		2.25		34.46		
WESTERNSPORT	E 2.83	.21	E 3.53	1.00	2.37	1.40	8.61	5.24	.52	3.65	2.74	1.36	3.69		6.45	2.27	4.23	1.13	1.40	1.96	2.23	.05	2.80		41.51	1.77	
WILLIAMSPORT	3.97		4.07		2.92		5.40		.92		1.69		3.38	.10	1.54		2.57		.79		2.04		2.52		31.81		
DIVISION	3.26	.46	3.27	1.03	2.79	.72	7.00	3.75	.70	3.28	2.90	.93	3.29	.37	2.62	1.27	3.84	.76	1.12	1.95	2.10	.46	2.45	.23	35.34	3.21	
* * *																											
ALLEGHENY PLATEAU 08																											
BITTINGER 2 NW	3.20		4.55		4.11		7.34		2.10		7.12		3.63		2.42		3.43		1.11		3.76		4.14		46.91		
MERRILL	2.70		3.03		2.81		7.75		.92		5.13		3.85		2.99		3.65		.90		2.53		2.93		39.19		
OAKLAND 1 SE	3.43	.95	3.39	.07	3.61	.94	8.42	4.28	1.54	3.17	4.75	.07	2.91	1.93	2.46	2.04	3.97	.69	1.56	1.56	3.35	.21	3.80	.09	43.19	5.32	
SAVAGE RIVER DAM	2.30		2.34		2.10		7.71		.91		3.04		4.50		2.81		3.94		.91		2.00		2.42		35.58		
SHALLMAR	3.31		3.20		2.76		7.15		.65		4.06		3.21		3.47		4.48		2.52		4.30		2.46		41.57		
SINES DEEP CREEK 2	3.51	.83	3.97	.32	4.20	.33	6.43	2.28	1.77	2.90	6.19	1.37	4.82	.04	2.03	2.46	3.88	.47	.95	2.15	3.89	.82	4.84	1.08	46.48	2.37	
DIVISION	3.11	.94	3.56	.27	3.51	.80	7.48	3.48	1.58	2.94	5.43	.88	3.97	.60	2.43	1.94	3.81	.56	1.13	1.99	3.25	.27	3.80	.31	43.06	3.46	
DELAWARE																											
* * *																											
NORTHERN 01																											
MIDDLETOWN 1 MSW	E 4.11		E 2.99		E 2.08		4.90		.19		1.54		2.81		1.44		3.36		1.56		1.63		4.74		E 31.51		
NEWARK UNIVERSITY FARM	4.09		2.48		1.63		5.00		.54		.72		4.24		2.39		2.80		1.27		1.76		5.13		32.23		
WILMINGTON CASTLE HB AP	4.13	.73	3.37	.42	2.20	1.82	5.97	2.64	.22	3.31	1.02	3.03	3.70	.55	1.33	3.74	2.77	1.18	1.29	1.62	1.62	1.91	4.70	1.67	32.82	11.74	
WILMINGTON PORTER RESVR	4.52	1.05	3.23	.44	1.99	2.02	6.74	3.00	.39	3.71	1.24	2.67	3.72	.75	2.38	2.94	2.46	.97	1.64	1.46	1.90	1.77	5.54	2.41	35.75	9.39	
DIVISION	4.21	.73	3.00	.15	1.98	1.97	5.65	2.09	.34	3.66	1.14	2.69	3.62	.75	2.11	3.13	2.85	.63	1.44	1.70	1.73	1.75	5.03	1.93	33.10	11.38	
* * *																											
SOUTHERN 02																											
BRIDGEVILLE 1 NW	4.08	.54	4.81	1.92	2.92	1.04	4.61	1.18	.49	3.29	.96	2.64	3.57	1.40	1.78	3.77	4.55	.53	1.94	1.25	2.02	1.19	3.27	.24	35.00	10.28	
DOVER	3.95	.25	5.39	2.32	2.86	1.24	5.61	2.19	.58	3.57	.68	2.78	3.28	1.39	1.33	4.40	4.63	.82	3.26	.01	1.58	2.09	2.93	.18	36.04	10.10	
GEORGETOWN 5 SW	4.36		4.42		3.04		4.93		.19		.55		3.04		2.65		5.39		2.41		2.19		2.34		35.91		
LEWES 1 SW	5.11		5.18		3.82		5.67		.20		1.31		5.88		.94		4.77		2.33		1.41		2.74		39.36		
MILFORD 3 NW	E 4.58		4.44		3.05		3.85		.36		2.37		3.05		.44		4.82		3.12		2.11		2.42		E 34.61		
SELBYVILLE	6.80		5.87		4.98		5.06		.23		1.11		2.91		1.03		5.06		3.01		1.89		2.57		40.52		
DIVISION	4.61	1.05	5.01	1.93	3.45	.74	4.96	1.46	.36	3.55	1.16	2.43	3.62	1.22	1.36	4.26	4.87	.78	2.68	.72	1.87	1.70	2.71	.49	36.84	9.91	

Division averages in the annual issue include delayed and corrected data and may differ slightly from values published in monthly issues.

Table 3

TEMPERATURE EXTREMES AND FREEZE DATA

MARYLAND AND DELAWARE 1964

Table with columns for Station, Highest, Date, Lowest, Date, Last spring minimum of (16° to 32° or below), First fall minimum of (32° to 16° or below), and Number of days between dates (16° to 32° or below).

See reference notes following Station Index.

Table 3—Continued

TEMPERATURE EXTREMES AND FREEZE DATA

MARYLAND AND DELAWARE  
1964

Station	Highest	Date	Lowest	Date	Last spring minimum of										First fall minimum of										Number of days between dates				
					16° or below		20° or below		24° or below		28° or below		32° or below		32° or below		28° or below		24° or below		20° or below		16° or below		15° or below	20° or below	24° or below	28° or below	32° or below
					Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.							
MARYLAND																													
FROSTBURG	93	9-11	0	1-14	3-31	16	4-4	18	4-5	24	4-16	28	4-16	28	10-6	28	10-6	28	10-21	24	11-22	11	11-22	11	236	232	199	173	173
HAGERSTOWN	98	9-11	2	1-15	2-28	8	3-31	17	3-31	17	4-5	26	4-5	26	10-8	30	10-24	27	11-22	18	11-22	18	12-16	19	291	236	236	202	186
HANCOCK FRUIT LAB	98	8-23	-7	1-15	3-1	12	4-5	19	4-5	19	4-16	27	5-3	32	9-14	32	10-7	28	10-12	28	11-22	18	11-23	11	267	231	190	174	134
PICARDY	99	9-11	5	1-14	2-28	15	4-4	20	4-5	21	4-5	21	4-16	30	10-6	30	10-7	27	11-21	24	11-22	15	11-22	15	267	232	230	185	173
WESTERNPORT	98	9-10	5	2-23	2-26	15	3-31	20	4-4	23	4-4	23	4-16	29	10-6	30	10-7	28	11-22	16	11-22	16	11-22	16	269	236	232	186	173
* * *																													
ALLEGHENY PLATEAU 08																													
BITTINGER 2 NW	89	7-23	-4	1-14	4-4	12	4-4	12	4-9	23	4-16	26	5-29	29	10-6	25	10-6	25	10-7	24	11-21	13	11-21	13	231	231	181	173	139
OAKLAND 1 SE	92	9-10	-17	2-12	4-4	15	4-4	15	4-16	21	5-29	28	5-30	30	8-15	32	9-14	23	9-14	23	10-6	20	11-22	9	232	185	151	108	77
SAVAGE RIVER DAM	93	9-11	-2	1-1	3-19	14	4-4	19	4-6	22	4-16	28	4-16	28	9-14	32	10-6	27	10-21	23	11-22	13	11-22	13	248	232	198	173	151
SINES DEEP CREEK 2	90	9-10	-8	2-12	3-31	19	4-5	20	4-16	22	4-16	22	5-30	30	8-15	31	9-14	25	10-6	20	10-6	20	10-21	16	204	184	173	151	77
DELAWARE																													
* * *																													
NORTHERN 01																													
MIDDLETOWN 1 SW	98	7-1	-	-	-	-	-	-	4-2	24	4-5	27	4-10	30	10-8	32	10-12	28	11-22	21	11-23	17	12-19	14	-	-	234	190	181
NEWARK UNIVERSITY FARM	98	6-30	0	1-15	2-25	15	3-31	20	4-2	21	4-10	27	4-10	27	10-8	30	10-12	27	10-24	24	11-22	18	11-23	15	271	236	205	185	181
WILMGTN NCASTLE WB AP	98	6-30	1	1-15	2-23	11	2-25	17	3-31	21	4-2	25	4-10	30	10-11	29	10-24	27	11-22	17	11-22	17	12-19	13	299	270	234	205	184
WILMGTN PORTER RESVR	97	6-30	6	1-15	2-25	15	2-28	20	3-31	21	4-4	28	4-5	30	10-11	32	11-21	25	11-22	18	11-22	18	12-19	14	267	267	236	231	189
* * *																													
SOUTHERN 02																													
BRIDGEVILLE 1 NW	100	7-1	4	1-15	2-13	10	3-1	19	4-5	24	4-10	28	4-11	32	10-8	32	10-12	27	11-22	17	11-22	17	12-19	11	309	266	231	185	180
DOVER	98	7-1	5	1-15	1-16	10	2-25	18	3-31	24	4-5	28	4-10	29	10-12	32	11-21	27	11-22	21	11-23	19	12-19	15	337	271	236	230	189
GEORGETOWN 5 SW	98	7-1	4	1-15	2-23	19	2-25	18	4-5	23	4-10	26	4-27	30	10-8	31	10-12	26	11-22	18	11-22	18	11-23	16	273	270	231	185	164
LEWES 1 SW	100	6-10	8	1-15	2-13	16	2-23	19	4-5	22	4-5	22	4-10	31	10-12	29	11-22	21	11-22	21	11-23	16	12-19	16	309	273	231	231	185
MILFORD 3 WNW	98	7-1	4	1-15	1-19	15	2-25	20	3-31	23	4-10	28	4-26	31	10-11	31	10-12	27	11-22	19	11-22	19	11-23	16	308	270	236	185	168
SELBYVILLE	99	6-20	9	12-16	2-23	18	2-25	18	4-5	24	4-5	24	4-27	32	10-11	29	10-12	26	11-22	20	11-22	20	12-16	9	298	270	231	190	167

See reference notes following Station Index.

# TOTAL EVAPORATION AND WIND MOVEMENT

MARYLAND AND DELAWARE  
1964

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
MARYLAND														
UPPER SOUTHERN 04														
BELTSVILLE	EVAP	-	-	-	-	6.50	7.18	B 7.61	B 6.17	B 6.50	B 3.24	-	-	-
	DEP	-	-	-	-	.67	.59	.13	.06	1.85	.06	-	-	-
	WIND	-	-	-	-	988	844	1216	B 1169	2424	1664	B 1154	-	-
	MAX	-	-	-	-	79.3	87.2	89.2	84.2	77.2	63.3	57.9	-	-
MIN	-	-	-	-	54.5	62.8	68.1	62.5	55.6	43.1	38.7	-	-	
UPPER MARLBORO 3 NNW														
	EVAP	-	-	-	-	B 6.86	6.95	6.47	5.49	B 5.37	-	-	-	-
	DEP	-	-	-	-	-	-	-	-	-	-	-	-	-
	WIND	-	-	-	-	983	641	639	489	B 700	-	-	-	-
	MAX	-	-	-	-	84.3	91.4	93.1	89.7	86.3	-	-	-	-
MIN	-	-	-	-	54.9	62.8	68.9	64.9	58.4	-	-	-	-	
ALLEGHENY PLATEAU 08														
SAVAGE RIVER DAM														
	EVAP	-	-	-	-	6.81	B 5.81	6.06	5.60	5.01	2.50	-	-	-
	DEP	-	-	-	-	-	-	-	-	-	-	-	-	-
	WIND	-	-	-	2630	2341	1213	927	1156	1182	1638	-	-	-
	MAX	-	-	-	-	74.5	81.5	87.9	81.9	74.8	57.1	-	-	-
MIN	-	-	-	-	49.8	56.9	64.0	57.5	51.6	40.4	-	-	-	
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM														
	EVAP	-	-	-	-	-	6.64	B 6.27	5.96	5.51	-	-	-	-
	DEP	-	-	-	-	-	-	-	-	-	-	-	-	-
	WIND	-	-	-	-	-	895	761	829	1056	868	-	-	-
	MAX	-	-	-	-	-	91.9	94.7	90.4	84.3	-	-	-	-
MIN	-	-	-	-	-	64.0	69.6	65.3	58.9	-	-	-	-	
SOUTHERN 02														
GEORGETOWN 5 SW														
	EVAP	-	-	-	-	-	8.61	7.87	6.91	B 6.28	-	-	-	-
	DEP	-	-	-	-	-	-	-	-	-	-	-	-	-
	WIND	-	-	-	-	-	1366	1297	1139	1398	-	-	-	-

### CHANGES IN STATION NAME

NEW NAME	FORMER NAME	DATE - 1964
MARYLAND		
DENTON 1 WNW	DENTON 1 S	AUGUST 10
ROCK HALL	ROCK HALL 3 SE	JANUARY 9
WESTMINSTER 2 N	WESTMINSTER	FEBRUARY 1

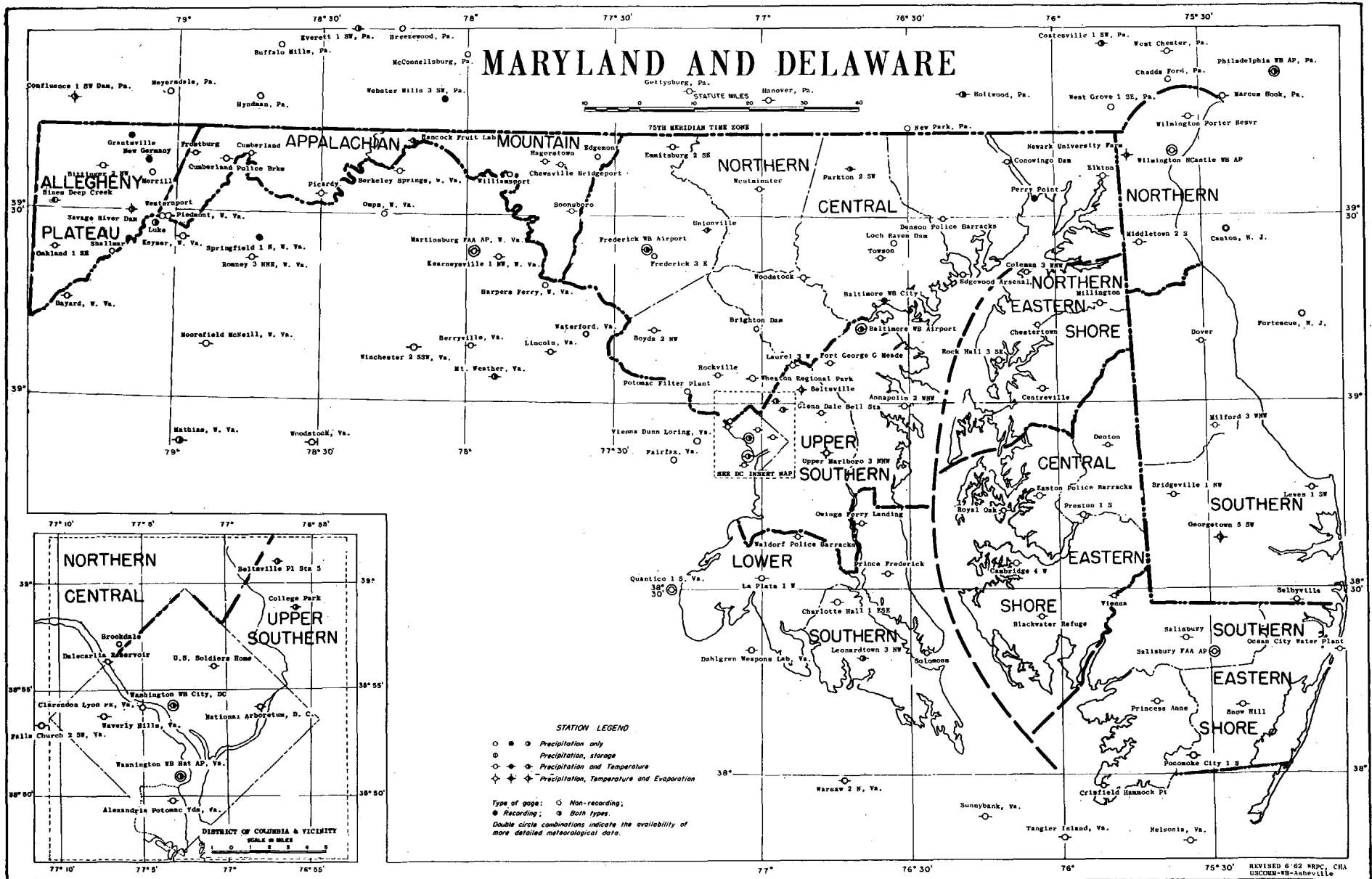
DELAWARE		
MIDDLETOWN 1 WSW	MIDDLETOWN 2 S	MARCH 14

### RELOCATION AND CHANGES OF EQUIPMENT

MARYLAND		
DENTON 1 WNW	EQUIPMENT MOVED 1.25 MILE NW	AUGUST 10
PRESTON 1 S	EQUIPMENT MOVED 50 FEET S	AUGUST 11
ROCK HALL	EQUIPMENT MOVED 2.6 MILES WNW	JANUARY 9
SAVAGE RIVER DAM	SUBMERGED SIX'S THERMOMETER ADDED	JULY 1
SNOW HILL	EQUIPMENT MOVED 0.2 MILE S	MARCH 6
WESTMINSTER 2 N	EQUIPMENT MOVED 1.9 MILES N	FEBRUARY 1
DELAWARE		
MIDDLETOWN 1 WSW	EQUIPMENT MOVED 2 MILES NW	MARCH 14
DISTRICT OF COLUMBIA		
NATIONAL ARBORETUM	EQUIPMENT MOVED 2300 FEET N	FEBRUARY 11







# MARYLAND AND DELAWARE

STATUTE MILES 0 10 20 40

75TH MERIDIAN TIME ZONE

**STATION LEGEND**

- ● Precipitation only
- ○ Precipitation, storage
- ◆ Precipitation and Temperature
- ◆ ◆ Precipitation, Temperature and Evaporation

Type of gage: ○ Non-recording;  
● Recording; ○ Both types.

Double circle combinations indicate the availability of more detailed meteorological data.

