

U. S. DEPARTMENT OF COMMERCE  
LUTHER H. HODGES, Secretary  
WEATHER BUREAU  
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# CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

ANNUAL SUMMARY 1963

Volume 67      No. 13



# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

MARYLAND AND DELAWARE  
1963

Table 1

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			
MARYLAND																													
SOUTHERN EASTERN SHORE 01																													
CRISFIELD HAMMOCK PT	33.5	- 5.8	32.0	- 7.9	48.0	1.5	56.9	0.0	64.3	- 2.6	74.5M	- 0.8	79.7	0.5	77.4	- 0.6	67.3	- 5.3	62.3	0.1	32.2	1.0	-	-	-	-	-	-	
CRISFIELD SOMERS COVE																													
OCEAN CITY WATER PLANT	33.3		32.3		46.4		54.0		60.0		71.2		74.2		75.0		65.9		61.2		52.4		34.6		35.0		35.2		
POCOMO CITY T S	35.6		30.8		49.0		53.4		61.4		70.7		74.8		73.4		64.2		58.0		49.7		32.5M		32.1		34.4		
PRINCESS ANNE	34.3		32.8		49.6		55.7		63.1		72.2		76.1		74.1		65.1		58.8		50.7		32.8M		32.9		34.3		
SALISBURY																													
SALISBURY FAA AIRPORT	34.6		33.0		49.9		56.3		63.8		73.1		76.7		74.7		66.0		60.4		51.7		33.5		33.5		35.1		35.1
SNOW HILL	32.8		31.4		48.6		54.5		61.5		71.4		75.4		73.9		64.2		58.5		49.4		32.1		32.1		34.4		
DIVISION	33.9	- 4.2	32.8	- 5.9	49.2	4.5	55.1	0.9	62.2	- 1.9	71.5	- 1.1	75.7	- 1.0	73.7	- 1.5	64.6	- 4.6	59.1	0.3	50.9	2.5	32.9	- 6.4	32.9	- 6.4	35.1	- 1.6	
CENTRAL EASTERN SHORE 02																													
BLACKWATER REFUGE																													
CAMBRIDGE A W	31.8		30.2		46.9		53.5		62.7		75.5		79.3		77.3		67.2		63.0		51.6		34.6		34.6		36.2		36.2
DENTON 1 S	31.9		30.3		47.8M		55.2		62.4		71.8M		76.0		73.8		65.7		59.3		50.9		32.1		32.1		34.8		
EASTON POLICE BRKS	33.1	- 3.5	31.2	- 5.8	47.8M	4.7	56.4	1.8	63.6	- 0.5	72.8	0.3	77.0	- 0.5	74.5	- 0.8	64.9	- 3.5	59.7	1.7	50.8	2.9	31.7	- 4.9	31.7	- 4.9	35.0	- 7.9	
PRESTON 1 S	32.8		31.2		48.2		55.1		62.8		72.5		76.0		73.2		64.6		58.9		50.3		31.9		31.9		34.8		
ROYAL OAK																													
VIENNA	32.9		30.7		48.6		56.2		63.8		73.6		78.0		75.8		66.4		60.7		50.9		32.8		32.8		35.9		
DIVISION	32.9		31.5		48.6		55.8		63.3		72.6		76.9		74.6		65.6		60.2		50.9		32.8		32.8		35.5		
LOWER SOUTHERN 03																													
CHARLOTTE HALL 1 ESE																													
LA PLATA 1 W	32.2M		32.2M		50.3M		56.7M		63.7M		72.6M		76.8M		75.2		66.7		60.1M		50.5M		31.3		31.3		35.7		
LEONARDTOWN 3 NW	32.8		31.7		49.6		56.2		62.9		71.3		75.1		73.9		65.3		59.1		49.6		30.4M		30.4M		34.8		
OWINGS FERRY LANDING	33.3		31.4		49.3		56.0		63.3		71.8		75.9		74.9		65.9M		58.3		50.1		31.6		31.6		35.2		
PRINCE FREDERICK	33.4	- 3.6	31.1	- 6.5	48.9	4.3	56.2	1.0	64.6M		70.8M		75.5M		74.0	- 1.1	65.3	- 3.6	59.8	1.2	50.5	2.3	31.6	- 6.7	31.6	- 6.7	35.1		
DIVISION	32.8M		31.8M		48.1M		56.1M		64.6M		70.8M		75.5M		73.7M		67.1M		59.7M		50.2		30.3M		30.3M		35.1		
SOLOMONS																													
WALDORF POLICE BRKS	34.4	- 4.1	32.5	- 6.5	49.2	3.9	57.3	1.8	64.7	- 1.3	74.2	- 0.3	78.7	- 0.1	77.6	- 0.2	68.0	- 4.1	62.6	1.4	32.8	2.4	35.0	- 5.3	35.0	- 5.3	37.3	- 1.0	
DIVISION	32.8		32.1		49.3		56.8		63.4M		72.2		76.5		74.6		65.9		59.1		49.0		29.7		29.7		35.1		
UPPER SOUTHERN 04																													
ANNAPOLIS																													
BALTIMORE WB AIRPORT	30.1M	- 6.0																											
BELTSVILLE	28.8	- 6.0	27.6	- 7.9	45.9	2.8	54.0	- 0.2	61.4	- 3.0	73.1	0.6	76.3	- 0.5	72.9	- 2.1	64.0	- 4.1	58.6	1.6	47.3	1.8	28.8	- 7.0	28.8	- 7.0	33.3	- 1.9	
BELTSVILLE PLANT STA 9	27.7		26.2		44.8		53.4		60.2		69.2		74.1		71.6		62.8		56.8		47.4		28.6		28.6		31.9		
COLLEGE PARK	31.1	- 4.9	29.7	- 7.1	47.9	3.9	56.6M	2.0	63.9	- 0.7	72.3	- 0.4	76.7	- 0.1	73.8	- 1.5	65.2	- 3.4	59.6	2.0	49.3	2.7	30.5	- 6.5	30.5	- 6.5	34.7	- 1.2	
DALECARLIA RESERVOIR DC																													
FORT GEORGE G MEADE	30.8		29.9		48.0		55.8		63.8		72.4		76.1M		74.0		65.3		59.4		50.0		29.7		29.7		34.6		
GLENN DALE BELL STA	30.3		28.6		47.0		55.0		62.1		71.2		75.1		72.4		63.9		58.5		48.7		29.8		29.8		33.5		
NATIONAL ARBORETUM D C	31.0	- 4.1	29.8	- 6.1	47.7	4.5	54.5	0.8	62.4	- 1.4	71.4	- 0.6	75.3	- 0.6	73.0	- 1.3	64.5	- 3.3	58.7	1.9	49.2	3.3	29.5	- 6.5	29.5	- 6.5	33.9	- 1.1	
DIVISION	32.0		30.3		48.4		57.3		64.0		73.1		77.5		74.8		65.7		62.6		49.9		30.5		30.5		35.5		
SUTLAND																													
U S SOLDIERS HOME D C	30.2		27.9		47.4		56.4		63.1		71.4		76.7		74.2		64.9		61.1		49.9		30.7		30.7		34.5		
UPPER HARBOR 3 NW	29.2		27.9		46.9		55.2		62.6		70.6		75.6		72.7		64.1		60.2		48.8		30.6		30.6		33.9		
DIVISION	34.1		33.0		50.3		58.2		65.4		74.1		79.0		76.4		67.2		63.0		51.5		31.1		31.1		35.1		
NORTHERN EASTERN SHORE 05																													
CENTREVILLE																													
CHESTERTOWN	31.6		30.2		47.3		54.2		62.3		72.1		75.9		72.4		64.3		58.9		50.0		31.1		31.1		34.8		
COLEMAN 3 NW	30.3		29.1		46.5		54.6		62.8		72.6		77.7		74.2		65.3		61.1		50.7		31.1		31.1		35.1		
MILLINGTON	30.7	- 4.6	29.1	- 7.0	46.3M	5.1	55.8	1.4	63.5	0.0	73.2	0.1	78.0	0.5	74.6	- 1.4	65.8M	- 4.2	61.8M	2.5	50.9	2.9	31.4	- 5.9	31.4	- 5.9	35.1	- 0.9	
ROCK HALL 3 SE	30.4	- 5.0	29.1	- 6.9	46.2	2.8	53.8	- 0.2	62.3	- 1.6	71.8	- 0.4	75.9	- 0.5	72.6	- 2.1	64.2	- 4.4	58.9	1.1	49.8	2.7	30.0	- 6.8	30.0	- 6.8	35.1	- 1.7	
DIVISION	30.5	- 4.9	29.1	- 6.9	46.5	3.3	55.3	1.4	63.1	- 1.1	72.4	- 0.3	76.8	- 0.5	74.0	- 1.2	65.4	- 3.6	-		-	-	-	-	-	-	-	-	
NORTHERN CENTRAL 06																													
BALTIMORE WB CITY																													
BENSON POLICE BARRACKS	31.7	- 5.6	30.4	- 7.4	48.1	3.4	57.8	2.1	64.7	- 1.4	75.1	0.4	80.1	1.0	76.7	- 0.6	67.2	- 3.4	63.7	3.7	51.3	2.5	32.2	- 6.8	32.2	- 6.8	36.6	- 1.0	
BOYDS 2 NW	28.0		27.5		45.1		53.3		60.5		70.1		74.7		70.4		63.1		58.7		47.3		27.6		27.6		32.2		
COMOWING DAM	29.1		27.8		45.9		53.0M		61.4		69.6		73.3		71.5		62.8		59.3		48.6M		28.3		28.3		32.5		
EDGEWOOD ARSENAL	27.8		26.7		43.2		53.5		60.3		71.2		75.9		71.1		63.0		58.1		46.9		27.2		27.2		32.1		
DIVISION	28.1		27.9		43.7		53.2		59.9		70.5		75.4		71.6		63.0		57.0		47.3		27.1		27.1		32.5		
ELKTON																													
EMMITTSBURG 2 SE	29.8	- 4.0	28.4	- 6.2	45.0	2.9	53.8	1.0	61.8	- 1.5	72.2	0.4	76.4	0.2	73.0	- 1.5	64.4M	- 3.4	58.7	2.2	48.8	3.4	29.2	- 6.1	29.2	- 6.1	33.4	- 1.1	
FREDERICK NEMD	29.5	- 7.4	26.0	- 7.7	43.9	2.8	52.5	0.3	60.6	- 2.0	70.2	- 1.1	74.2	- 1.4	71.4	- 2.5	63.2	- 3.6	58.0	2.4	47.8	3.6	27.8	- 6.4	27.8	- 6.4	31.6	- 23.0	
PARKTON 2 SW	26.3		25.0		42.8		51.4		58.8		68.7		72.6		68.9		61.5		58.1		45.8		26.3		26.3		30.6		
ROCKVILLE	30.6		29.3		48.0		56.9		62.7		72.9M		76.7		73.9		65.5		61.6		49.5		29.8		29.8		32.7		
TOWSON																													
UNIONVILLE	28.9M		28.4		46.1		54.8		62.7		71.2		75.8		72.8														

# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

MARYLAND AND DELAWARE  
1963

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
NEWARK UNIVERSITY FARM	28.7		27.6		44.3		53.2		61.1		70.1 <sup>M</sup>		76.2		71.7		64.0		59.1		48.4		28.1		52.7	
WILMINGTON NCASLE NB AP	28.4	- 5.0	27.5	- 6.3	44.1	2.8	52.6	0.5	60.3	- 2.4	70.8	- 0.6	76.3	0.3	71.7	- 2.6	63.7	- 3.9	58.4	1.8	48.0	2.6	28.4	- 6.7	52.5	- 1.6
WILMINGTON PORTER RESVR	28.1		26.9		43.7		52.6		60.3		70.5		75.4		71.0		62.5		59.0		48.1		28.2		52.2	
DIVISION	28.4	- 5.5	27.3	- 7.0	44.0	2.3	52.8	0.5	60.6	- 2.3	70.5	- 1.0	76.0	0.0	71.5	- 2.8	63.4	- 4.6	58.8	1.6	48.2	2.2	28.2	- 7.4	52.5	- 2.0
SOUTHERN O2																										
BRIDGEVILLE 1 NW	32.6	- 3.9	31.0	- 6.1	47.8	4.2	55.1	1.5	63.1	- 0.6	71.9	- 0.3	76.2	- 0.0	76.1	- 0.4	64.9	- 3.5	59.1	1.1	49.4	1.9	31.2	- 6.6	54.7	- 1.1
DOVER	31.8	- 4.6	37.0	0.2	47.1	3.4	54.9	0.8	62.6	- 1.8	72.4	- 0.5	76.7	- 0.4	73.3	- 2.3	65.3	- 4.1	61.1	2.4	50.7	2.8	31.3	- 6.6	55.3	- 0.9
GEORGETOWN 5 SW	33.0		31.0		48.5		54.4		62.4 <sup>M</sup>		71.9		76.0		73.8 <sup>M</sup>		64.8		58.6		50.2		31.5		54.7	
LEWES 1 SW	33.2		31.6		48.2		54.1		60.9		70.9		76.0		72.3		64.4		58.4		50.9		32.2		54.4	
MILFORD 3 MNW	32.3 <sup>M</sup>		31.0		46.3		54.4 <sup>M</sup>		63.0		71.2		76.2		73.7		64.2		59.8		50.8		32.0		54.7	
SELBYVILLE	33.3		31.7		48.9		53.5		62.0		72.0		75.4		72.8		64.0		58.4		50.0		31.7		54.5	
DIVISION	32.7	- 4.1	32.2	- 5.0	48.1	4.3	54.4	0.7	62.3	- 1.6	71.7	- 0.7	75.8	- 0.8	73.3	- 1.6	64.6	- 4.3	59.2	0.8	50.3	2.4	31.7	- 6.4	54.7	- 1.4

A Special Weather Summary describing unusual weather in 1963 was included in the January, April, August, and October issues of this publication.

# TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

MARYLAND AND DELAWARE  
1963

Table 2

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		
<b>MARYLAND</b>																												
<b>SOUTHERN EASTERN SHORE 01</b>																												
CRISFIELD HAMMOCK PT	3.10	.46	2.73	.42	8.14	4.13	.01	3.65	3.15	.54	6.09	2.78	1.33	3.72	2.55	2.50	55.88	2.05	.38	2.99	4.72	1.48	-	-	-	-	-	-
CRISFIELD SOMERS COVE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OCEAN CITY WATER PLANT	2.84	2.14	7.43	.87	3.75	.87	3.75	.87	3.75	.87	3.21	3.61	3.77	3.83	.20	5.87	.20	5.87	.20	5.87	.20	5.87	.20	5.87	.20	5.87	.20	5.87
POCOMOKE CITY 1 S	2.33	2.10	7.74	.41	2.42	.41	2.42	.41	2.42	.41	4.86	.69	2.83	7.35	.80	6.39	.80	6.39	.80	6.39	.80	6.39	.80	6.39	.80	6.39	.80	6.39
PRINCESS ANNE	2.74	2.25	8.11	.71	3.71	.71	3.71	.71	3.71	.71	4.70	.93	2.38	6.47	.74	5.93	.74	5.93	.74	5.93	.74	5.93	.74	5.93	.74	5.93	.74	5.93
SALISBURY	2.79	.87	2.22	.99	7.85	3.72	.92	2.42	4.32	.70	5.08	1.59	1.53	2.86	2.62	3.38	6.03	1.59	.27	3.23	5.61	2.40	2.40	.73	41.65	4.48		
SALISBURY FAA AIRPORT	2.83	2.22	7.17	1.53	2.56	1.53	2.56	1.53	2.56	1.53	5.07	2.41	2.40	5.33	.37	5.70	.37	5.70	.37	5.70	.37	5.70	.37	5.70	.37	5.70	.37	5.70
SNOW HILL	2.94	1.00	2.48	.95	8.06	3.44	.70	2.91	3.80	.19	5.22	1.42	1.02	4.10	2.67	3.00	5.30	.80	.33	3.58	6.46	2.91	2.83	.58	41.81	7.36		
DIVISION	2.80	.83	2.31	.88	7.79	3.65	.79	2.62	3.55	.03	4.90	1.45	1.81	3.00	2.73	2.70	5.72	1.45	.39	3.14	5.81	2.50	2.86	.26	41.46	4.31		
<b>CENTRAL EASTERN SHORE 02</b>																												
BLACKWATER REFUGE	2.59	2.63	6.35	.85	2.44	.85	2.44	.85	2.44	.85	5.14	2.93	1.77	4.85	.11	7.96	.11	7.96	.11	7.96	.11	7.96	.11	7.96	.11	7.96	.11	7.96
CAMBRIDGE 4 W	2.46	1.69	7.14	1.42	2.63	1.42	2.63	1.42	2.63	1.42	5.40	2.00	1.97	4.83	.05	5.88	.05	5.88	.05	5.88	.05	5.88	.05	5.88	.05	5.88	.05	5.88
DENTON 1 S	2.97	1.81	6.69	.69	3.11	.69	3.11	.69	3.11	.69	5.44	1.50	2.75	5.39	.05	7.52	.05	7.52	.05	7.52	.05	7.52	.05	7.52	.05	7.52	.05	7.52
EASTON POLICE BRKS	2.47	1.00	1.83	1.12	5.94	1.99	1.30	2.18	3.47	.41	6.64	3.28	1.77	2.97	2.14	2.89	5.54	1.59	.11	3.07	6.51	2.98	2.99	.14	40.71	3.94		
PRESTON 1 S	2.25	1.47	6.58	1.37	2.90	1.37	2.90	1.37	2.90	1.37	6.43	3.28	1.34	2.40	2.40	5.32	.11	3.07	.11	3.07	6.51	2.98	2.99	.14	40.71	3.94		
ROYAL OAK	2.16	1.88	6.51	1.27	3.29	1.27	3.29	1.27	3.29	1.27	5.94	1.60	1.81	4.79	.12	5.30	.12	5.30	.12	5.30	.12	5.30	.12	5.30	.12	5.30	.12	5.30
VIENNA	2.06	2.17	6.93	1.38	3.47	1.38	3.47	1.38	3.47	1.38	3.49	1.97	1.41	6.62	.12	7.01	.12	7.01	.12	7.01	.12	7.01	.12	7.01	.12	7.01	.12	7.01
DIVISION	2.42	1.12	1.93	.98	6.59	2.69	1.18	2.22	3.05	.90	5.50	1.98	1.87	2.98	2.04	3.14	5.33	1.25	.06	3.17	6.82	3.28	2.26	.87	39.05	6.18		
<b>LOWER SOUTHERN 03</b>																												
CHARLOTTE HALL 1 ESE	1.54	1.32	6.07	.70	2.55	.70	2.55	.70	2.55	.70	6.12	1.84	1.46	4.65	.04	7.67	.04	7.67	.04	7.67	.04	7.67	.04	7.67	.04	7.67	.04	7.67
LA PLATA 1 W	2.01	1.52	6.30	.44	1.79	.44	1.79	.44	1.79	.44	5.52	4.84	1.75	3.93	.03	7.13	.03	7.13	.03	7.13	.03	7.13	.03	7.13	.03	7.13	.03	7.13
LEONARDTOWN 3 NW	1.94	1.90	5.79	.69	2.01	.69	2.01	.69	2.01	.69	5.41	1.68	.94	4.05	.00	6.00	.00	6.00	.00	6.00	.00	6.00	.00	6.00	.00	6.00	.00	6.00
OWINGS FERRY LANDING	E1.95	1.53	1.65	.97	6.18	2.69	1.95	1.53	E3.27	.83	E6.18	2.92	.98	3.29	.83	4.48	3.90	.27	.06	3.23	6.82	3.59	1.94	1.11	E39.71	8.04		
PRINCE PRINCE	2.11	1.15	5.03	.40	6.30	.40	6.30	.40	6.30	.40	5.72	1.77	2.37	5.87	.32	6.26	.32	6.26	.32	6.26	.32	6.26	.32	6.26	.32	6.26	.32	6.26
SOLOMONS	2.00	1.55	1.65	1.13	5.69	2.08	.67	2.83	2.35	1.41	5.93	2.48	1.49	4.08	1.05	3.95	3.81	.22	T	3.11	5.73	2.40	2.06	.91	32.43	11.79		
WALDORF POLICE BRKS	1.33	1.76	7.01	1.06	1.06	1.06	1.06	1.06	1.06	1.06	4.03	1.01	1.16	4.03	.15	7.63	.15	7.63	.15	7.63	.15	7.63	.15	7.63	.15	7.63	.15	7.63
DIVISION	1.84	1.73	1.51	1.26	6.01	2.35	.84	2.66	2.88	1.05	5.34	1.84	1.46	3.55	1.37	3.90	4.32	.37	.09	3.28	6.75	3.52	2.23	.87	34.64	10.22		
<b>UPPER SOUTHERN 04</b>																												
ANNAPOLIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BALTIMORE WB AIRPORT R	1.84	1.59	2.07	.82	4.43	.86	2.15	1.45	1.70	2.28	9.16	5.87	.69	3.53	4.21	.98	4.12	.79	T	3.18	6.85	3.72	2.08	.91	39.55	3.50		
BELTSVILLE	1.47	1.76	4.85	1.36	1.77	1.36	1.77	1.36	1.77	1.36	5.42	2.03	1.68	8.60	.02	6.01	.02	6.01	.02	6.01	.02	6.01	.02	6.01	.02	6.01	.02	6.01
BELTSVILLE PLANT STA 5	1.86	1.93	5.27	1.26	1.72	1.26	1.72	1.26	1.72	1.26	6.00	2.03	8.60	3.82	.00	6.91	.00	6.91	.00	6.91	.00	6.91	.00	6.91	.00	6.91	.00	6.91
COLLEGE PARK	1.68	1.57	2.05	.65	5.33	1.60	1.23	2.16	1.66	2.55	5.31	1.50	1.35	2.79	8.23	3.08	3.66	.14	T	3.16	7.18	4.09	2.04	1.00	39.72	3.75		
DALECARLIA RESERVOIR DC	1.43	2.40	4.95	1.51	1.54	1.51	1.54	1.51	1.54	1.51	6.49	.97	5.70	3.39	.08	6.52	.08	6.52	.08	6.52	.08	6.52	.08	6.52	.08	6.52	.08	6.52
FORT GEORGE G MEADE	1.92	2.13	5.23	1.17	2.19	1.17	2.19	1.17	2.19	1.17	6.38	.82	5.68	4.14	.00	7.72	.00	7.72	.00	7.72	.00	7.72	.00	7.72	.00	7.72	.00	7.72
GLENN DALE BELL STA	1.65	1.78	1.97	.86	5.86	2.02	1.24	2.30	1.49	2.74	8.25	4.25	7.14	4.28	7.16	2.09	3.72	.14	.00	3.36	7.51	4.29	1.95	1.02	41.54	3.83		
LAUREL 3 W	1.19	1.59	5.48	1.07	2.77	1.07	2.77	1.07	2.77	1.07	5.67	2.31	3.77	6.57	.00	3.77	.00	3.77	.00	3.77	.00	3.77	.00	3.77	.00	3.77	.00	3.77
NATIONAL ARBORETUM D C	1.43	2.39	5.81	1.33	1.27	1.33	1.27	1.33	1.27	1.33	7.86	.95	8.35	3.79	.00	8.17	.00	8.17	.00	8.17	.00	8.17	.00	8.17	.00	8.17	.00	8.17
SUITLAND	1.68	2.11	6.27	.99	1.20	.99	1.20	.99	1.20	.99	7.33	.87	6.17	3.79	.03	7.91	.03	7.91	.03	7.91	.03	7.91	.03	7.91	.03	7.91	.03	7.91
U S SOLDIERS HOME D C	2.18	2.34	4.88	1.58	1.32	1.58	1.32	1.58	1.32	1.58	8.23	.98	7.31	3.84	.00	6.27	.00	6.27	.00	6.27	.00	6.27	.00	6.27	.00	6.27	.00	6.27
UPPER MARLBORO 3 NW	2.23	2.02	6.06	1.21	1.23	1.21	1.23	1.21	1.23	1.21	8.79	1.25	5.02	3.87	.00	7.89	.00	7.89	.00	7.89	.00	7.89	.00	7.89	.00	7.89	.00	7.89
WASHINGTON WB CITY DC R	1.96	1.96	5.54	1.22	1.27	1.22	1.27	1.22	1.27	1.22	8.39	.67	7.06	3.56	.00	6.69	.00	6.69	.00	6.69	.00	6.69	.00	6.69	.00	6.69	.00	6.69
DIVISION	1.74	1.58	2.06	.66	5.33	1.63	1.28	2.17	1.53	2.54	7.10	3.38	1.13	3.20	6.79	1.78	3.78	.02	.01	3.13	7.26	4.20	2.00	.97	40.01	3.24		
<b>NORTHERN EASTERN SHORE 05</b>																												
CENTREVILLE	2.68	2.22	5.36	.56	1.99	.56	1.99	.56	1.99	.56	5.17	1.60	4.53	5.01	.00	6.19	.00	6.19	.00	6.19	.00	6.19	.00	6.19	.00	6.19	.00	6.19
CHESTERTOWN	2.20	2.29	4.91	.90	2.01	.90	2.01	.90	2.01	.90	5.25	.80	3.90	4.80	.00	6.49	.00	6.49	.00	6.49	.00	6.49	.00	6.49	.00	6.49	.00	6.49
COLEMAN 3 NW	E2.01	1.60	1.93	1.00	4.44	.58	.80	2.63	1.88	2.29	4.08	.44	1.50	2.79	4.89	.08	4.62	.91	.30	2.78	7.23							

# TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

MARYLAND AND DELAWARE  
1963

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
SAVAGE RIVER DAM	.72		.96		5.06		2.00		2.10		3.23		3.70		3.71		1.60		.21		3.44		1.57		28.30	
SHALLMAR	1.06		2.38		8.61		2.91		2.87		3.99		3.44		4.86		2.66		.24		4.76		2.09		39.88	
SINES DEEP CREEK	1.83	2.51	2.16	1.49	9.34	4.81	E2.77	1.38																		
SINES DEEP CREEK 2									3.22	1.42	4.74	.08	6.12	1.26	5.60	1.11	1.66	1.75	.28	2.82	5.72	2.65	2.87	.89		
DIVISION	1.33	2.72	2.01	1.28	7.77	3.46	2.76	1.24	2.71	1.83	4.91	.24	4.58	.01	4.81	.44	1.74	1.51	.29	2.83	4.70	1.72	2.34	1.15	39.35	7.17
DELAWARE																										
NORTHERN 01																										
MIDDLETOWN 2 S	1.43																									
NEWARK UNIVERSITY FARM	1.93		2.02		4.46		.93		2.29		2.73		1.65		3.88		3.75		.29		4.62		1.72		30.27	
WILMGTON NCASTLE WB AP	2.05	1.35	2.09	.86	4.24	.22	1.12	2.21	1.23	2.30	3.26	.81	1.65	2.60	4.03	1.56	3.50	.45	.21	2.70	6.87	3.34	1.85	1.18	32.10	12.46
WILMINGTON PORTER RESVR	1.88	1.59	2.21	.58	4.20	.19	1.85	1.89	1.39	2.71	3.11	.80	1.87	2.60	5.58	.26	4.88	1.45	.13	2.97	7.59	3.92	2.00	1.13	36.69	8.45
DIVISION	1.95	1.53	2.11	.74	4.30	.35	1.30	2.26	1.64	2.36	3.03	.80	1.72	2.65	4.50	.74	4.04	.56	.21	2.93	6.36	2.88	1.86	1.24	33.02	11.46
SOUTHERN 02																										
BRIDGEVILLE 1 NW	2.81	.73	1.92	.97	6.91	2.93	1.16	2.27	2.34	1.44	5.11	1.51	1.11	3.95	.81	4.74	6.69	2.67	.05	3.14	6.10	2.89	2.03	1.00	37.04	8.24
DOVER	2.24	1.46	1.66	1.37	5.23	1.11	.48	2.94	2.46	1.69	3.61	.15	1.98	2.69	4.85	.88	3.30	.51	7	3.27	6.29	2.62	1.86	1.25	33.96	12.18
GEORGETOWN 5 SW	E2.27		1.85		7.31		2.01		1.88		3.96		2.73		1.62		4.95		.09		6.26		2.82		E37.75	
LEWES 1 SW	2.75		2.16		6.64		1.71		3.28		2.49		1.83		3.01		5.71		.26		6.00		2.74		38.58	
MILFORD 3 WNW	1.92		1.47		7.54		.84		3.13		5.73		1.32		3.49		4.51		.00		7.11		E2.23		E39.29	
SELBYVILLE	2.75		2.42		7.29		1.42		3.86		4.71		1.72		2.85		4.08		.32		5.43		3.06		39.91	
DIVISION	2.49	1.27	1.91	1.17	6.82	2.63	1.27	2.23	2.83	1.06	4.27	.66	1.74	3.10	2.77	2.85	4.87	.78	.12	3.28	6.20	2.63	2.50	.70	37.79	8.96

Table 3

## TEMPERATURE EXTREMES AND FREEZE DATA

MARYLAND AND DELAWARE  
1963

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		16° 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.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.				
MARYLAND																																		
SOUTHERN EASTERN SHORE 01																																		
CRISFIELD HAMMOCK PT	95	7-27+	11	1-29+	2-27	16	2-27	16	2-27	16	2-28	25	3-17	32	11-16	32	-	-	21	12-15	21	12-19	18	-	-	-	-	-	-	-	-	-	-	244
CRISFIELD SOMERS COVE	94	8-5+	9	1-24	2-27	13	2-27	13	2-27	13	2-28	25	3-23	31	12-1	31	12-15	21	12-15	21	12-19	18	12-20	14	296	291	291	290	253	253	253	253		
OCEAN CITY WATER PLANT	96	7-27	5	1-25	2-27	11	2-27	11	2-27	11	2-28	23	3-24	27	10-5	30	11-12	28	11-16	24	12-15	19	12-15	19	296	291	291	290	253	253	253	253		
POCOMOKE CITY 1 S	95	7-28+	6	1-29	2-27	11	2-28	19	3-3	24	3-24	28	5-13	31	11-4	25	11-4	25	12-2	23	12-15	18	12-17	15	293	290	274	225	175	175	175	175		
PRINCESS ANNE	95	7-28+	6	1-29	2-27	11	2-28	19	3-3	24	3-24	28	5-13	31	11-4	25	11-4	25	12-2	23	12-15	18	12-17	15	293	290	274	225	175	175	175	175		
SALISBURY	95	7-19+	8	1-24	2-27	10	2-28	19	2-28	19	3-8	28	3-24	30	11-4	28	11-4	28	12-15	19	12-15	19	12-20	13	296	290	290	241	225	241	225	241		
SALISBURY FAA AIRPORT	95	7-19	7	1-25	2-27	11	2-28	20	2-28	20	3-3	27	4-15	32	11-4	31	11-4	28	12-14	21	12-15	19	12-19	16	295	290	289	246	225	246	225	246		
SNOW HILL	95	7-27+	7	1-29	2-27	10	2-28	18	3-3	23	3-16	28	5-13	32	11-4	27	11-4	27	12-2	24	12-15	17	12-17	14	293	290	274	233	175	233	175	233		
CENTRAL EASTERN SHORE 02																																		
BLACKWATER REFUGE	100	6-11+	-2	1-24	2-27	13	2-27	13	2-28	23	3-11	28	4-15	32	11-4	30	12-7	28	12-15	19	12-15	19	12-31	16	307	291	290	271	203	271	203	271		
CAMBRIDGE 4 W	97	7-19	3	1-29	2-27	9	2-28	20	3-3	23	3-24	27	4-6	32	11-4	27	11-4	27	12-2	24	12-15	18	12-18	16	294	290	274	225	192	274	225	192		
DENTON 1 S	97	7-27	3	1-29	2-27	10	2-28	20	3-3	22	3-24	27	4-26	32	11-4	30	11-4	28	12-15	16	12-15	16	12-15	16	291	291	290	255	203	290	255	203		
OWINGS POLICE BRKS	96	7-27	5	1-29	2-27	11	2-27	11	2-28	23	3-16	28	4-15	32	11-4	29	11-26	28	12-15	19	12-15	19	12-20	13	296	291	290	255	203	291	255	203		
PRESTON 1 S	96	7-27	6	1-29+	2-27	11	2-27	11	2-28	24	3-16	28	4-15	30	11-4	29	11-26	28	12-15	19	12-15	19	12-20	13	291	291	290	255	203	291	255	203		
ROYAL OAK	98	7-27	6	1-24	2-27	13	2-27	13	3-3	24	3-8	28	3-24	30	11-4	32	11-26	27	12-15	19	12-15	19	12-20	13	296	291	287	263	225	287	263	225		
VIENNA	96	7-27	7	1-29+	2-27	11	2-27	11	2-28	23	3-3	26	4-6	32	11-4	30	11-26	28	12-15	19	12-15	19	12-20	12	296	291	290	268	212	290	268	212		
LOWER SOUTHERN 03																																		
CHARLOTTE HALL 1 ESE	96	8-4+	4	2-23+	2-27	14	2-27	14	2-27	14	3-23	28	4-8	31	10-31	32	11-4	27	12-1	22	12-15	14	12-15	14	291	291	277	226	206	277	226	206		
LA PLATA 1 W	96	7-28+	0	1-29	2-27	11	3-3	20	3-3	20	4-8	28	5-13	32	10-14	32	11-4	26	11-25	22	12-15	13	12-15	13	291	287	267	210	154	267	210	154		
LEONARDTOWN 3 NW	97	8-4+	0	1-29	2-27	11	2-27	11	3-8	23	4-6	27	5-9	30	10-14	31	10-31	27	11-4	24	12-15	16	12-15	16	291	291	281	208	164	291	281	208		
OWINGS FERRY LANDING	97	7-27	2	1-29	2-27	10	2-27	10	3-3	24	3-23	28	4-24	29	11-4	30	12-1	28	12-7	24	12-15	14	12-15	14	291	291	279	233	225	279	233	225		
PRINCE FREDERICK	98	7-18	2	1-29	2-23	4	2-27	19	-	-	-	-	4-6	31	10-13	32	11-4	26	12-2	20	12-2	20	12-15	16	295	278	-	-	190	278	-	190		
SOLOMONS	96	8-4	8	1-24	2-27	14	2-27	14	2-27	14	3-3	28	3-8	32	12-4	32	12-15	19	12-15	19	12-15	19	12-20	15	296	291	291	287	271	291	287	271		
WALDORF POLICE BRKS	98	8-5+	0	1-29	2-27	11	3-17	20	3-17	20	3-24	27	5-24	32	9-24	32	11-4	25	11-16	24	12-15	16	12-15	16	291	273	244	225	123	244	225	123		
UPPER SOUTHERN 04																																		
ANNAPOLIS	-	-	2	1-24	2-27	9	2-27	9	2-28	24	-	-	-	-	-	-	-	-	-	-	12-15	17	12-20	11	296	291	-	-	-	-	-			
BALTIMORE WB AIRPORT	98	6-27	-7	1-29	2-27	10	2-27	10	2-27	10	3-24	28	4-16	32	11-4	28	11-4	28	12-1	21	12-14	17	12-15	16	291	290	277	225	202	277	225	202		
BELTSVILLE	97	7-28	-11	1-29	2-28	12	3-11	17	3-18	23	4-6	28	5-13	32	9-24	32	11-4	25	11-23	21	12-15	15	12-15	15	290	290	274	225	134	290	274	225		
BELTSVILLE PLANT STA 5	96	7-28	-9	1-29	2-28	12	3-3	20	3-3	24	4-26	28	5-13	31	9-24	31	10-31	28	11-13	23	12-15	16	12-15	16	290	287	233	186	134	287	233	186		
COLLEGE PARK	97	7-27+	-6	1-29	2-27	10	2-27	10	3-15	24	3-24	27	4-26	32	10-14	32	11-4	28	11-13	24	12-15	17	12-20	13	296	291	243	225	171	296	243	225		
DALECARLIA RESERVOIR DC	96	7-27	1	1-29+	2-27	9	2-27	9	3-3	23	3-21	28	4-12	31	11-4	29	11-25	27	12-7	24	12-15	11	12-15	11	291	291	279	249	206	291	279	249		
FORT GEORGE G MEADE	97	7-26	-10	1-29	2-27	9	3-3	20	3-24	24	4-16	28	5-13	31	9-24	32	11-4	25	11-13	21	12-15	15	12-15	15	291	287	234	202	134	287	234	202		
GLENN DALE BELL STA	97	7-29+	-6	1-29	2-27	9	3-15	19	3-24	24	4-16	27	5-3	32	9-24	32	11-4	24	11-4	24	12-15	14	12-15	14	291	255	225	202	144	255	225	202		
LAUREL 3 W	96	7-27	1	1-24	2-27	9	2-28	20	2-28	20	3-23	27	3-23	27	11-13	32	12-1	28	12-15	15	12-15	15	12-15	15	291	290	290	253	235	290	253	235		
NATIONAL ARBORETUM D C	98	7-27	2	1-29+	2-27	11	2-27	11	2-27	11	3-15	28	3-24	30	11-4	31	11-13	27	12-7	24	12-15	18	12-15	18	296	291	283	243	225	283	243	225		
SUITLAND	97	7-28	1	1-24	2-28	13	2-28	13	2-28	13	3-3	26	3-23	29	11-4	31	12-1	28	12-15	17	12-15	17	12-19	16	294	290	290	273	226	290	273	226		
U S SOLDIERS HOME D C	96	7-27	-1	1-24	2-27	7	2-27	7	3-1	23	4-10	26	5-2	32	10-31	32	12-1	28	12-14	17	12-14	17	12-15	15	291	290	290	273	226	290	273	226		
UPPER MARLBOROUGH 3 NNW	97	7-28	-5	1-29	2-28	14	3-3	20	3-24	24	4-26	28	5-13	31	9-24	31	10-31	28	11-13	24	12-15	16	12-15	16	290	287	243	225	171	287	243	225		
WASHINGTON WB CITY DC	98	7-28+	5	1-24	2-27	13	2-27	13	2-27	13	2-27	13	3-23	31	12-4	32	12-14	20	12-14	20	12-14	20	12-14	20	12-19	15	295	290	290	250	256	290	250	256
NORTHERN EASTERN SHORE 05																																		
CENTREVILLE	95	7-27	1	1-29	2-27	10	2-27	10	2-28	23	3-16	25	4-16	31	11-4	28	11-4	28	-	-	-	-	-	-	-	-	-	-	-	-	-	233	202	
CHESTERTOWN	99	7-27	3	1-29	2-27	9	2-27	9	2-27	9	3-23	28	3-23	30	11-25	30	12-1	28	12-14	20	12-14	20	12-19	14	295	290	290	253	246	290	253	246		
COLEMAN 3 NNW																																		



# TOTAL EVAPORATION AND WIND MOVEMENT

MARYLAND AND DELAWARE  
1963

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
MARYLAND														
UPPER SOUTHERN 04														
BELTSVILLE	EVAP	-	-	-	-	6.33	B 7.58	8.40	B 8.40	B 4.60	-	B 2.25	-	-
	DEP	-	-	-	-	.50	.99	.92	2.17	-.05	-	-	-	-
	WIND	-	-	-	-	859	729	-	-	1165	1179	2228	-	-
	MAX	-	-	-	-	77.1	82.8	90.0	82.5	75.7	70.8	55.9	-	-
	MIN	-	-	-	-	51.2	62.6	66.3	62.7	53.0	44.9	36.8	-	-
UPPER MARLBORO 3 NNW														
	EVAP	-	-	-	B 5.81	6.18	B 6.82	7.33	B 6.08	3.58	3.38	-	-	-
	DEP	-	-	-	-	-	-	-	-	-	-	-	-	-
	WIND	-	-	-	B 1001	754	383	354	B 554	394	311	-	-	-
	MAX	-	-	-	75.0	82.4	92.1	97.6	91.3	85.1	74.1	-	-	-
	MIN	-	-	-	44.8	57.6	67.0	71.8	68.3	60.9	48.3	-	-	-
ALLEGHENY PLATEAU 08														
SAVAGE RIVER DAM														
	EVAP	-	-	-	-	6.08	B 5.89	6.54	5.67	3.88	3.48	-	-	-
	DEP	-	-	-	-	-	-	-	-	-	-	-	-	-
	WIND	-	-	-	-	2806	1800	1631	1677	1467	1611	-	-	-
	MAX	-	-	-	-	69.4	81.6	84.2	79.8	73.6	66.3	-	-	-
	MIN	-	-	-	-	47.0	56.4	59.1	58.3	49.7	42.7	-	-	-
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM														
	EVAP	-	-	-	-	-	6.28	7.41	6.06	B 3.84	-	-	-	-
	DEP	-	-	-	-	-	-	-	-	-	-	-	-	-
	WIND	-	-	-	-	-	952	848	683	651	-	-	-	-
	MAX	-	-	-	-	-	91.1	95.2	91.1	84.0	-	-	-	-
	MIN	-	-	-	-	-	63.3	67.7	65.7	57.4	-	-	-	-
SOUTHERN 02														
GEORGETOWN 5 SW														
	EVAP	-	-	-	B 6.71	B 6.71	B 7.10	7.96	B 7.27	B 4.30	-	-	-	-
	DEP	-	-	-	-	-	-	-	-	-	-	-	-	-
	WIND	-	-	-	B 2644	1851	1490	1175	1131	B 1513	-	-	-	-

MAX AND MIN IN TABLE 4 REFER TO AVERAGE MAXIMUM AND MINIMUM TEMPERATURE OF WATER IN PAN.

### CHANGES IN STATION NAME

NEW NAME

ANNAPOLIS, MD.  
DENTON 1 S, MD.

FORMER NAME

ANNAPOLIS 2 WNW, MD.  
DENTON, MD.

DATE - 1963

December 6  
April 4

### RELOCATION AND CHANGES OF EQUIPMENT

ANNAPOLIS, MD.  
BITTINGER 2 NW, MD.  
DENTON 1 S, MD.  
FREDERICK WFD, MD.  
HANCOCK FRUIT LAB, MD.

Equipment moved 1 mile NE  
Rain gage moved 8 feet N  
Equipment moved 0.5 mile S  
Equipment moved 4 miles W  
Thermometer shelter moved 20 feet NW  
  
Equipment moved 200 feet SSE  
Equipment changed to recording rain gage only

December 6  
April 11  
April 4  
November 1  
April 8

June 6  
May 1





# MARYLAND AND DELAWARE

