CLIMATOLOGICAL DATA

15   MARYLAND AND DELAWARE SECTION

G. N. BRANCATO

GENERAL SUMMARY

Although this was the 7th consecutive year with above normal temperature, the 1947 mean was only 0.2 degree above normal. The greatest departures were +6.5° in January, +5.5° in October, and −5.5° in March. This year was similar to 1946 in that it was a little short on precipitation.

January averaged from 5 to 8 degrees above normal, and was the fifth warmest of record. Precipitation was slightly above normal and was well distributed through the month and through the section. Snow, glaze and sleet, with some amounts exceeding 8 inches, fell on New Year's Day. Lighter falls of snow and sleet fell but all were followed by warmer weather which quickly melted the snow and sleet.

February, however, was cold, dry and windy. The mean temperature was 3.6 degrees below normal but some stations were 9 to 15 degrees below normal. Brief mild periods were recorded near the first and the middle of the month. This was the third driest February in more than 50 years of record, and the driest since 1937. Nevertheless, the precipitation was very well distributed through the month and through the section, and occurred mostly as snow or sleet. The heaviest snowfall occurred on the 20th and 21st and accounted for well over one-half of the month's precipitation. Depths ranged from 2 inches over extreme eastern Maryland and extreme eastern Delaware to 14 inches at some western and north-central stations. Strong northwest winds swept the section during and after the snowfall, causing deep drifts which blocked highways for several days, particularly in the western and northeastern portions of Maryland.

The wintry weather continued into March which was just 1.5 degrees warmer than the record cold of 1916. Other than brief mild periods near the 14th, 23d and 31st, temperatures were near or below normal. The coldness was sustained through most of the month rather than being the result of extremes. March precipitation, while below normal, was well distributed through the month and through the section. General snows from the 1st to the 3d caused heavy depths, in western counties up to 22 inches and in north-central sections up to 10 inches. High winds caused drifts to 15 feet in the mountains. Another snowstorm swept across southern Maryland and southern Delaware on the 8th with some falls up to 8 inches. Light rains fell on the section on the 13-14th and the 21st-25th, and were followed by scattered rain or snow on the 26-30th. Unusually high winds again prevailed on the 25th and 26th.

As the month ended farm operations were late due to the cold weather of February and March. Melting March snows followed by rain made the ground soft and wet. Winter grains and grasses came through in good to excellent condition and resumed growing in central and eastern areas during the latter half of March.

The dry weather of the winter months continued through April over most of the section. Local areas near and east of the Chesapeake Bay were above normal in rainfall. In some portions of Maryland, deficiencies for the year to date were in excess of 5 inches with the average for the State approximately 3.5 inches below normal. In Delaware, the average deficiency for the year through April was about 2 inches. No measurable snow was reported during the month. With regard to temperature, it was a characteristic April with warm and cool periods which averaged a little over 2 degrees above normal. Freezing temperatures or killing frosts were reported from many stations on several mornings.

Although the rainfall was not sufficient generally to relieve the dry condition of the soil, it was well distributed through the month and was sufficient in most cases for good growth of crops, grasses, grains, and fruit. Plowing for corn was progressing rapidly. However, early garden crops were growing slowly due to cool weather during the latter part of the month.

May was very wet and brought a sharp reversal from the dry weather which had persisted for several months. However, some areas in western and southeastern counties remained deficient. The average temperature of May was about normal, but it was not indicative of the abnormal conditions which prevailed. The period 8-11th was the coldest on record for the season of the year. Except for a few stations protected by relatively warm water areas, killing frosts were reported throughout the

CONDENSED SUMMARY OF CLIMATOLOGICAL DATA 1947

Months	Temperature				Precipitation				Number of days				Prevailing direction of wind
	Mean	Departure from the normal	Highest	Lowest	Average	Departure from the normal	Greatest in 24 hours	Snowfall	With 0.01 inch or more of precipitation	Clear	Partly cloudy	Cloudy	
January	39.8	+6.5	75	−3	3.95	+0.62	1.52	5.5	12				
February	29.7	−3.6	64	−7	1.61	−1.34	1.71	13.2	5				
March	37.4	−5.5	71	−6	1.70	−1.88	1.00	5.8	9				
April	54.6	+2.8	90	20	2.81	−0.67	4.49	T.	10				
May	62.7	−0.2	95	18	5.38	+1.79	4.20	T.	14				
June	69.6	−1.3	99	33	4.39	+0.42	4.37	0.0	10				
July	73.4	−1.8	97	37	4.29	−0.07	3.65	0.0	13				
August	76.3	+2.8	99	47	3.26	−1.22	3.37	0.0	8				
September	68.0	+0.2	95	22	3.01	−0.35	2.02	0.0	9				
October	61.9	+5.5	94	17	1.52	−1.51	2.61	0.0	5				
November	43.5	−1.8	70	5	5.43	+2.80	3.55	0.1	11				
December	34.0	−1.3	66	1	1.61	−1.53	1.65	3.4	7				

KILLING FROSTS 1947

Stations	Last in Spring	First in Autumn	Stations	Last in Spring	First in Autumn
Maryland			**Maryland (cont'd.)**		
Aberdeen	May 11	Oct. 1	Maryland Line	May 10	Sept. 27
Annapolis	Mar. 31	Nov. 18	Millington	May 11	Oct. 1
Baltimore	Mar. 31	Nov. 13	Oakland	May 31	Sept. 23
Baltimore (Airport)	Mar. 31	Nov. 27	Oxford	Mar. 31	Nov. 20
Bell	May 11	Sept. 27	Picardy	May 11	Sept. 23
Blackwater	May 11	Oct. 2	Prettyboy Dam	May 10	Oct. 1
Cambridge	May 9	Oct. 2	Ridgely	May 10	Oct. 1
Charlotte Hall	May 10	Oct. 1	Rock Hall	Apr. 23	Oct. 1
Cheltenham	May 11	Oct. 1	Salisbury	May 10	Oct. 2
Chestertown	May 10	Nov. 10	Sines	May 31	Sept. 23
Chewsville	May 11	Sept. 23	Snow Hill	May 11	Oct. 2
Clear Spring	May 11	Sept. 27	Solomons	Mar. 28	Nov. 27
Coleman	Apr. 4	Nov. 10	State Sanatorium	May 11	Sept. 23
College Park	May 11	Oct. 1	Takoma Park No. 1	May 10	Oct. 1
Conowingo Dam	May 11	Oct. 1	Takoma Park No. 2	May 10	Oct. 1
Crisfield	Mar. 27	Nov. 27	Tonoloway	May 12	Sept. 23
Cumberland	May 11	Sept. 23	Towson	May 10	Sept. 27
Easton	May 10	Nov. 10	Unionville	May 12	Sept. 23
Elkton	May 11	Sept. 27	Western Port	May 12	Oct. 1
Emmitsburg	May 11	Oct. 1	Westminster	May 10	Sept. 27
Fallston	May 10	Oct. 1	Woodstock	May 12	Sept. 27
Ferry Landing	May 10	Oct. 1	Washington, D. C.	May 10	Nov. 10
Fort George G. Meade	May 11	Sept. 23	**Delaware**		
Frederick	May 12	Sept. 27	Bridgeville	May 11	Oct. 1
Frostburg	May 12	Sept. 23	Delaware City	May 10	Oct. 1
Germantown	May 11	Sept. 27	Dover	May 10	Oct. 1
Great Falls	May 11	Oct. 1	Georgetown	May 11	Oct. 1
Hancock	May 12	Sept. 23	Lewes	May 11	Oct. 1
Huntingtown	May 10	Oct. 11	Millsboro	May 11	Oct. 1
Keedysville	May 11	Sept. 27	Newark	May 11	Sept. 27
La Plata	May 11	Oct. 1	Wilmington	May 10	Oct. 1

COMPARATIVE DATA FOR THE YEAR

	FOR MARYLAND						FOR DELAWARE					
	Temperature			Precipitation			Temperature			Precipitation		
Year	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	52.6	102	−18	34.67	31.2	91	53.8	101	−4	37.13	19.9	95
1896	54.0	100	−13	36.69	25.2	90	55.0	103	0	40.99	13.1	96
1897	53.5	102	−12	44.55	19.6	108	54.6	97	3	46.81	14.5	111
1898	54.8	109	−20	41.69	24.8	109	55.7	99	0	44.11	10.7	108
1899	53.4	102	−26	40.52	40.7	98	54.4	100	−14	42.19	42.5	96
1900	55.0	106	−15	36.52	26.5	88	55.8	104	3	38.11	22.5	83
1901	52.5	106	−15	45.19	19.3	99	53.7	104	1	43.62	8.3	81
1902	53.5	104	−17	49.11	37.1	105	54.7	104	6	49.58	24.6	99
1903	53.2	100	−12	46.75	18.6	106	54.2	100	−1	48.35	11.3	97
1904	51.2	102	−20	36.36	38.8	96	51.9	99	−10	37.21	31.7	96
1905	53.3	104	−20	43.67	34.2	106	53.9	101	−6	45.80	27.7	106
1906	54.5	101	−15	47.30	21.7	123	55.8	98	5	54.15	11.1	122
1907	52.0	99	−29	48.82	36.5	121	53.4	96	−5	49.50	21.3	117
1908	54.0	102	−21	39.82	34.4	98	55.5	100	3	41.29	19.3	95
1909	53.7	99	−5	38.73	30.7	101	55.0	98	3	38.52	25.5	94
1910	53.5	98	−15	36.92	35.9	109	54.9	96	−1	39.09	17.5	101
1911	54.9	106	−5	43.48	23.8	119	55.9	102	6	43.76	15.3	105
1912	53.1	102	−40	44.40	33.4	110	54.7	102	−4	42.64	34.1	100
1913	55.9	102	−6	38.75	6.9	106	57.3	99	12	39.11	0.0	99
1914	53.3	102	−30	35.97	40.4	98	54.9	101	0	37.29	29.9	90
1915	53.7	103	−15	44.09	23.2	111	55.7	101	15	42.99	17.7	98
1916	53.1	101	−11	40.89	29.6	112	53.9	99	−3	38.26	24.7	103
1917	51.2	102	−32	40.15	38.2	111	52.1	100	−7	44.25	14.0	107
1918	53.7	109	−30	38.70	32.6	101	54.2	107	−10	33.30	23.4	85
1919	54.7	105	−19	46.19	12.7	116	55.0	105	0	55.46	7.5	108
1920	53.1	98	−10	44.12	21.3	115	54.1	97	1	50.41	11.3	112
1921	56.5	102	−15	38.06	20.5	114	57.4	100	4	35.02	17.2	110
1922	54.9	100	−15	39.97	35.9	112	55.6	96	1	41.52	28.2	108
1923	54.3	102	−9	39.91	22.5	116	55.0	100	6	43.03	17.3	104
1924	52.4	103	−13	46.16	33.0	111	53.5	100	1	48.53	12.5	108
1925	54.4	104	−31	34.86	24.7	114	56.0	102	−1	35.38	9.8	105
1926	52.7	107	−16	43.61	25.8	128	53.8	102	5	46.04	15.3	120
1927	54.3	100	−5	40.10	15.6	125	55.1	96	2	42.12	11.7	120
1928	53.8	99	−11	44.55	25.8	118	54.9	100	−11	49.38	17.5	114
1929	54.2	101	−13	42.68	20.9	117	55.7	102	6	40.59	11.8	117
1930	54.8	108	−20	23.29	23.2	94	56.2	110	−3	28.05	14.5	96
1931	55.9	108	−8	38.44	12.9	111	57.2	101	12	40.95	8.0	98
1932	55.0	106	−6	46.93	19.6	111	56.6	100	4	49.03	16.0	110
1933	54.8	102	−10	48.93	20.4	122	56.3	100	−1	52.32	14.5	116
1934	53.8	107	−25	45.05	32.3	113	54.7	101	−15	54.47	33.6	114
1935	53.5	101	−23	46.79	46.3	117	54.5	99	−7	54.44	40.7	124
1936	53.8	109	−20	43.81	32.2	116	55.1	105	−5	50.32	16.0	114
1937	54.0	100	−12	52.08	22.5	128	55.4	97	9	50.58	8.8	129
1938	55.3	100	−8	40.34	19.8	127	56.3	98	7	48.94	13.5	129
1939	55.3	100	−7	43.10	21.8	116	56.2	97	4	45.60	15.6	118
1940	52.2	103	−14	43.69	32.0	120	52.7	102	−7	43.50	31.2	119
1941	54.9	104	−10	32.74	24.9	91	55.7	100	7	33.94	18.2	92
1942	54.7	102	−25	48.17	29.5	116	55.4	100	−14	44.82	13.4	108
1943	54.3	102	−15	34.05	20.7	107	55.1	100	0	38.48	11.5	106
1944	54.4	102	−14	42.32	26.2	116	55.1	99	−5	44.49	16.6	109
1945	54.6	102	−16	50.17	26.0	132	55.2	99	−1	54.74	22.2	139
1946	55.7	99	−16	37.26	15.1	113	56.1	96	3	39.58	6.4	111
1947	54.2	99	−7	38.54	28.5	113	54.6	99	2	41.57	24.5	112
Period	**54.0**	**109**	**−40**	**41.65**	**26.7**	**113**	**55.0**	**110**	**−15**	**43.79**	**18.2**	**108**

Climatological Data for the Year 1947

Stations	Counties	Elevation, feet	Temperature, degrees Fahrenheit						Precipitation							Number of rainy days	Sky			Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month	Total snowfall		Number of clear days	Number of partly cloudy days	Number of cloudy days	
Maryland																				
Aberdeen	Harford	61	29	53.2	95	July 30†	6	Feb. 5	29	34.48	5.35	Nov.	1.02	Oct.	25.9	104				
Annapolis	Anne Arundel	40	82	55.3	92	July 30	8	Feb. 5	74	31.27	4.88	Nov.	0.90	Mar.	18.3	97				
Baltimore (U.S.W.B.)		14	77	56.6	97	Aug. 14	6	Feb. 5	77	46.24	7.48	June	1.20	Oct.	26.0	110				
Baltimore (Airport)	Baltimore	16	13	55.8	97	Aug. 14†	8	Feb. 5	13	42.87	6.66	Nov.	1.62	Mar.	23.4	107				
Bell §	Prince Georges	151	27	54.4	95	Aug. 13†	− 3	Feb. 24	27	41.52	6.60	June	1.07	Oct.	26.8	116				
Blackwater§	Dorchester	5	7	56.7	94	June 12†	5	Feb. 5	7	38.80	6.42	Nov.	1.10	Feb.	30.3	88				
Cambridge	do	13	53	55.7	97	Aug. 14†	9	Feb. 5	53	37.06	6.18	Nov.	1.25	Feb.	29.8	95				
Charlotte Hall§	St. Marys	167	24	55.6	97	Aug. 14†	5	Feb. 5	26	40.36	7.17	Nov.	1.50	Feb.	28.5	104				
Cheltenham	Prince Georges	230	47	54.4	95	Aug. 15†	5	Feb. 5	47	45.25	12.17	June	1.20	Mar.	23.5	120				
Chestertown	Kent	35	42	55.0	96	Aug. 16†	7	Feb. 5	42	41.30	6.35	Nov.	1.36	Mar.	27.3	122				
Chewsville	Washington	630	50	51.9	95	Aug. 13	2	Feb. 5	50	34.05	5.52	May	0.74	Dec.	26.6	117				
Clear Spring	do	560	49	53.4	97	Aug. 14	2	Feb. 5	49	37.78	7.53	July	0.75	Sept.	28.5	108				
Coleman §	Kent	80	48	56.3	99	Aug. 14	5	Feb. 5	50	44.71	7.96	May	1.61	Mar.	27.7	109				
College Park	Prince Georges	95	61	55.4	95	June 11†	6	Jan. 23†	61	45.17	7.70	May	1.38	Mar.	23.9	117				
Conowingo Dam	Harford	40	12	52.4	95	Aug. 15	4	Feb. 5	12	41.63	8.48	May	0.99	Aug.	26.6	115				
Crisfield	Somerset	5	28	59.9	94	June 12	12	Feb. 5	28	38.90	5.66	June	1.50	Feb.	13.5	83				
Cumberland	Allegany	623	65	52.6	98	June 11†	3	Feb. 5	77	26.49	3.97	Aug.	0.63	Dec.	26.6	111				
Easton	Talbot	35	57	55.5	94	Aug. 14†	7	Feb. 5	57	41.24	5.97	Nov.	1.55	Feb.	22.5	105				
Edgemont§	Washington	920							9	35.46	6.88	May	0.80	Dec.	30.5	105				
Elkton	Cecil	28	21	54.0	97	Aug. 15	4	Feb. 5	21	40.89	9.36	May	1.34	Dec.	29.0	94				
Fallston	Harford	450	78	53.5	95	Aug. 15	3	Feb. 5	78	42.02	9.06	May	1.31	Mar.	27.0	110				
Ferry Landing §	Calvert	120	31	55.6	96	Aug. 15	5	Feb. 5	31	39.74	6.80	Nov.	1.45	Oct.	24.8	113				
Fort George G. Meade	Anne Arundel	195	6	54.5	99	June 12	9	Jan. 23†	6	39.68	6.25	June	1.36	Mar.	26.6	98				
Frederick	Frederick	297	78	53.5	97	Aug. 13†	5	Feb. 5	76	35.67	5.42	May	1.24	Oct.	28.5	129				
Frederick (Airport)	do	371	4	53.2	96	Aug. 14	4	Feb. 5	4	35.73	4.86	May	1.23	Oct.	22.3	128				
Frostburg	Allegany	2,005	43	49.6	92	June 10†	− 5	Feb. 5	46	40.81	10.20	Aug.	0.98	Oct. †	50.5	150				
Germantown	Montgomery	460	7	54.1	94	Aug. 14	3	Feb. 5	7	33.53	5.27	May	1.32	Dec.	26.7	98				
Great Falls§	do	200	51	55.0	97	Aug. 14	4	Feb. 5	59	36.67	5.12	May	0.78	Oct.	27.7	95				
Hancock (River)	Washington	428							38	28.09	3.80	May	1.03	Oct.	23.0	120				
Hancock	do	428	17	51.6	96	June 11†	2	Feb. 5	17	30.03	5.12	July	1.08	Oct.	25.6	120				
Huntingtown	Calvert	160	12	55.4	96	Aug. 15	4	Feb. 5	12	41.83	7.25	Nov.	1.21	Feb.	26.4	116				
Keedysville	Washington	420	44	54.4	99	Aug. 14†	4	Feb. 5	44	31.92	6.05	July	0.99	Oct.	29.5	118				
La Plata	Charles	190	33	56.0	97	Aug. 15†	5	Feb. 5	33	37.79	5.80	Nov.	1.20	Feb. †	27.2	94				
Luke	Allegany	950							10	31.03	7.10	Aug.	0.60	Dec.	22.8	118				
Maryland Line	Baltimore	840	23	53.2	94	Aug. 14†	0	Feb. 5	23	35.37	6.55	May	1.03	Aug.	41.7	88				
Millington	Kent	27	50	55.3	96	July 30	7	Feb. 5	49	38.46	6.65	Nov.	0.96	Oct.	30.0	107				
Oakland	Garrett	2,420	20	47.9	90	Aug. 13	− 7	Feb. 5	50	43.57	5.23	Nov.	1.35	Oct.	90.4	173				
Oxford	Talbot	10	11	56.4	91	June 11†	10	Feb. 5	11	39.82	5.38	Nov.	1.12	Mar.	22.0	109				
Perry Point	Cecil	40							7	40.63	7.86	May	1.38	Oct.	26.0	121				
Picardy §	Allegany	1,030	21	52.9	96	July 1	1	Feb. 5	21	34.14	9.10	July	0.57	Dec.	28.0	98				
Prettyboy Dam§	Baltimore	780	17	52.6	94	Aug. 20	0	Feb. 5	17	42.20	6.64	May	1.31	Dec.	28.2	100				
Ridgely	Caroline	67	55	55.1	96	Aug. 20†	8	Feb. 5†	57	38.05	6.88	May	0.95	Feb.	22.8	106				
Rock Hall	Kent	20	34	55.7	97	Aug. 14†	8	Feb. 5	34	41.73	6.10	Nov.	1.12	Mar.	27.1	98				
Salisbury	Wicomico	10	42	57.5	96	July 30†	9	Feb. 5	42	36.42	5.45	Jan.	1.14	Feb.	25.7	101				
Sines (Deep Creek)§	Garrett	2,040	20	46.8	90	July 16	− 5	Feb. 5	23	46.56	8.50	July	1.46	Oct.	93.9	172				
Snow Hill	Worcester	20	32	55.7	97	June 12	10	Feb. 5	32	45.26	5.66	Nov.	1.63	Feb.	17.3	121				
Solomons	Calvert	20	56	58.0	95	Aug. 14†	9	Feb. 5	56	39.47	6.65	Nov.	1.64	Oct.	21.4	111				
State Sanatorium	Frederick	1,460	39				− 2	Feb. 5	39	41.56	7.49	July	1.05	Dec.	32.5	124				
Takoma Park No. 1	Montgomery	320	49	55.5	95	Aug. 15†	5	Feb. 5	49	43.29	6.71	May	1.34	Dec.	27.0	114				
Takoma Park No. 2.§	do	230	3	54.6	95	June 11	5	Feb. 5	3	42.61	6.33	May	0.97	Oct.	25.0	116				
Tonoloway§	Washington	550	37	51.9	95	June 11†	2	Feb. 5	24	30.00	6.40	July	0.38	Dec.	24.3	103				
Unionville	Frederick	450	8	50.7	95	Aug. 15	4	Feb. 5	8	38.10	7.29	July	1.13	Oct.	27.6	112				
Western Port	Allegany	1,000	54	53.4	97	Aug. 13†	2	Feb. 5	54	35.26	4.98	July	0.73	Oct.	36.5	122				
Westminster	Carroll	770	38	53.4	95	June 11†	1	Feb. 5	38	34.93	6.43	Nov.	0.98	Oct.	32.5	114				
Williamsport	Washington	360							9	40.06	6.98	Aug.	0.60	Sept.	26.2	137				
Woodstock	Baltimore	415	77	53.4	96	June 11†	5	Feb. 5	78	36.54	6.08	Nov.	1.30	Feb.	21.0	114				
District of Columbia																				
Washington (U.S.W.B.)		72	77	57.0	97	Aug. 14	7	Feb. 5	77	40.39	5.76	June	1.24	Mar.	22.9	116				
Delaware																				
Bridgeville	Sussex	45	56	54.8	97	Aug. 16	6	Feb. 5	57	39.05	5.79	May	1.07	Feb.	24.2	117				
Delaware City	New Castle	15	61	54.4	93	July 30	2	Feb. 5	61	42.25	6.89	May	1.31	Oct.	22.0	121				
Dover	Kent	34	60	55.4	93	June 11†	6	Feb. 5	60	40.17	6.49	May	1.08	Feb.	21.0	132				
Georgetown	Sussex	50	2	55.2	95	June 11†	7	Feb. 5	2	39.40	5.25	Jan.	1.01	Feb.	21.2	103				
Lewes	do	10	3	54.3	95	Aug. 15	7	Feb. 5	3	38.58	5.81	Jan.	1.12	Mar.	19.9	117				
Millsboro	do	20	55	56.3	99	Aug. 15	8	Feb. 5	55	39.79	5.68	Jan.	1.44	Feb.	25.2	96				
Newark (Pumping Sta.)	New Castle	110							16	41.47	10.14	May	1.55	Aug.	27.6	104				
Newark (Univ. Farm)	do	110	33	53.4	96	Aug. 15†	5	Feb. 5	35	43.32	10.16	May	1.39	Oct.	27.1	111				
Wilmington §§	do	42							54	43.82	9.99	May	1.79	Feb.	31.6	116				
Wilmington §§§	do	260	36	53.1	93	Aug. 15	8	Feb. 6	36	44.92	8.11	Nov.	1.47	Feb.	26.0	126				
For Maryland and District of Columbia				54.2	99	June 12†	− 7	Feb. 5		38.54	12.17	June	0.38	Dec.	28.5	113				
For Delaware				54.6	99	Aug. 15	2	Feb. 5		41.57	10.16	May	1.01	Feb.	24.5	112				
For entire section				54.2	99	June 12†	− 7	Feb. 5		38.96	12.17	June	0.38	Dec.	28.0	113				

†Also on other dates. §Post Office addresses of these stations are as follows: Of Bell, Glenndale; of Blackwater, Cambridge; of Charlotte Hall, Mechanicsville; of Coleman, Worton; of Edgemont, Smithburg; of Ferry Landing, Owings; of Great Falls, Bethesda; of Picardy, Paw Paw, W. Va.; of Pretty boy Dam, Parkton; of Sines, Oakland; of Takoma Park No. 2, Silver Spring; of Tonoloway, Hancock. §§Municipal Bldg. §§§Porter Reservoir. *Determined from surrounding stations.

(Continued from preceding page)

section, in most places on two or more mornings.

By the end of the month, truck crops and gardens damaged by the freeze had been replanted or were recovering. Fruits had variable damage up to 100% in some central and northern areas. However, the heavy rains delayed planting of crops and farm operations. Pastures and hays were in good to excellent condition and grains were making good progress, although freeze-damaged on the Del-Mar Peninsula.

This June was the coolest one since 1928 and had only one appreciably warm period. A few stations near the District of Columbia were slightly above normal but all other stations were below normal. With Maryland having the wettest June since 1941 and Delaware the driest one since 1940, precipitation was somewhat a paradox.

Distribution of the rain was fairly good through the month, but just fair through the section, the area near Baltimore and Washington reporting amounts over 6 inches. June contributed to a late season for crops. The coolness and wetness were not conducive to normal crop growth and slowed farm operations. By the end of the month, grains were being harvested. Corn was being cultivated but was growing slowly. Truck crops were variable, mostly good and improving. Tree fruits were sizing with the earliest varieties ripening. Conditions in the southern Maryland tobacco belt were fair and improving. Pastures and hay crops were mostly good to excellent.

The cool weather continued into July. There were no unusually warm periods, but the warmest days were near the 1st, 14th, and 30th. A pronounced cool period from the

Monthly and Annual Precipitation for the Year 1947 with Departures from the Normal

Stations	January Precipitation	January Departure	February Precipitation	February Departure	March Precipitation	March Departure	April Precipitation	April Departure	May Precipitation	May Departure	June Precipitation	June Departure	July Precipitation	July Departure	August Precipitation	August Departure	September Precipitation	September Departure	October Precipitation	October Departure	November Precipitation	November Departure	December Precipitation	Annual Precipitation	Annual Departure
Maryland																									
Aberdeen	3.38	+0.24	1.21	−1.56	1.86	−1.41	3.00	−0.42	3.67	+0.36	3.23	−0.34	3.49	−0.90	2.45	−2.27	3.99	+0.69	1.02	−1.62	5.35	+2.64	1.83	−0.78 34.48	−5.37
Annapolis	2.92	−0.47	1.77	−1.49	0.90	−2.89	3.15	−0.54	4.00	+0.02	3.75	−0.30	1.61	−2.88	1.14	−3.41	4.72	+0.90	0.96	−2.92	4.88	+2.09	1.47	−1.88 31.27	−13.7
Baltimore (U.S.W.B.)	3.89	+0.39	1.87	−1.52	1.54	−2.17	5.56	+2.22	3.95	+0.41	7.48	+3.60	4.92	+0.28	3.74	−0.03	3.54	+0.17	1.20	−1.69	6.92	+4.36	1.63	−1.74 46.24	+3.68
Baltimore (Airport)	3.85	+0.35	1.93	−1.46	1.62	−2.09	4.78	+1.44	3.23	−0.31	6.40	+1.52	5.23	+0.59	3.66	−0.71	2.80	−0.57	1.92	−0.97	6.66	+4.10	1.79	−1.58 42.87	+0.31
Bell	3.83	+0.26	1.68	−1.21	1.42	−2.14	2.55	−1.29	6.02	+2.35	6.60	+2.99	4.18	−0.19	3.32	−1.21	3.52	−0.38	1.07	−2.21	5.73	+2.76	1.60	−1.16 41.52	−1.43
Blackwater	4.74	....	1.10	.....	3.35	.....	3.34	.....	4.85	.....	3.79	.....	3.23	....	0.72	.....	4.00	.....	1.13	.....	6.42	....	2.13	.... 38.80	....
Cambridge	4.26	+0.63	1.25	−2.15	2.43	−1.45	4.17	+0.53	4.98	+1.49	3.57	−0.17	2.99	−1.54	1.26	−3.55	2.69	−0.76	1.44	−1.81	6.18	+3.51	1.84	−1.31 37.06	−6.58
Charlotte Hall	4.66	+1.42	1.50	−1.71	1.87	−1.44	8.02	+0.66	3.62	+0.26	4.40	+0.80	2.44	−2.92	3.42	−0.03	4.92	+2.00	1.62	−1.69	7.17	+4.76	1.72	−1.16 40.36	−0.37
Cheltenham	4.10	+0.39	1.45	−1.76	1.20	−2.06	2.78	−1.25	4.22	+0.69	12.17	+8.07	2.67	−1.9	3.45	−1.33	4.28	+0.71	1.43	−1.81	6.10	+3.41	1.40	−1.81 45.25	+1.95
Chestertown	4.32	+0.89	1.71	−1.32	1.36	−2.25	3.70	+0.01	5.46	+1.85	4.84	+0.92	3.75	−0.53	2.12	−2.0	4.14	+0.73	1.68	−1.46	6.35	+3.51	1.87	−1.58 41.30	−1.32
Chewsville	2.99	+0.27	1.24	−0.97	1.40	−1.67	2.13	−0.87	5.52	+2.09	4.80	+0.87	4.88	+1.19	3.88	+0.05	0.92	−2.18	1.46	−1.52	4.09	+1.93	0.74	−1.88 34.05	−2.69
Clear Spring	2.13	−0.98	1.74	−0.88	1.61	−2.00	2.50	−1.12	4.54	+0.76	4.23	+0.12	7.53	+3.54	5.37	+1.21	0.75	−2.88	1.02	−2.10	4.75	+2.41	1.61	−1.47 37.78	−2.89
Coleman	3.78	+0.28	1.80	−1.25	1.61	−2.00	3.37	−0.14	7.96	+4.59	5.06	+1.38	4.26	−0.16	2.16	−2.61	3.81	+0.36	2.05	−0.93	6.95	+4.31	1.90	−1.55 44.71	+2.28
College Park	3.76	+0.46	1.27	−1.81	1.38	−2.18	2.31	−1.25	7.70	+3.93	6.67	+2.85	4.41	+0.21	4.71	+0.44	3.90	+0.47	1.72	−1.19	5.84	+3.20	1.50	−1.53 45.17	+3.59
Conowingo Dam	3.31	0.00	1.94	−0.68	2.24	−1.16	2.85	−0.51	8.48	+3.98	5.15	+0.52	4.67	−0.54	0.99	−3.28	3.23	+0.06	1.08	−2.42	5.98	+2.77	1.71	−1.50 41.63	−2.76
Crisfield	4.59	+0.94	1.50	−2.01	1.93	−2.33	3.30	−0.61	2.33	−1.06	5.66	+2.25	2.80	−2.46	2.36	−2.26	3.62	+0.24	3.43	+0.54	5.31	+2.64	2.07	−1.10 38.90	−5.22
Cumberland	2.49	−0.02	1.29	−1.09	1.18	−1.86	1.25	−1.63	3.09	−0.29	3.29	−0.57	3.19	−0.08	3.97	+0.53	1.49	−1.20	0.86	−1.69	3.76	+1.63	0.63	−1.87 26.49	−8.14
Easton	5.73	+2.44	1.55	−1.66	1.68	−2.07	3.88	0.00	5.37	+2.02	4.55	+0.80	3.15	−1.45	2.22	−2.28	4.35	+0.98	1.69	−1.55	5.97	+3.35	1.60	−1.47 41.24	−0.89
Edgemont	2.78	.....	1.36	.....		.....	1.45	.....	6.88	.....	5.02	.....	5.34	....	2.53	....	1.22	.....	1.89	.....	4.83	....	0.80	.... 35.46	.....
Elkton	2.70	−0.67	2.24	−0.73	1.94	−1.86	3.28	−0.42	9.36	+5.47	2.79	−1.40	4.08	−0.44	1.79	−3.83	2.93	−0.30	2.23	−1.13	6.17	+3.11	1.34	−1.66 40.89	+3.86
Emmitsburg	3.81	+0.54	1.61	−1.44	1.96	−2.05	2.08	−1.57		.....		.....		....		....		.....	0.90	−2.68	6.25	+2.98	1.06	−2.12	.....
Fallston	3.82	−0.26	1.51	−1.84	1.31	−2.48	2.05	−1.60	9.06	+5.41	5.21	+1.28	3.52	−0.92	1.46	−3.47	3.02	−0.96	1.73	−1.75	7.64	+4.47	2.19	−1.26 42.02	−3.38
Ferry Landing	4.43	+0.77	1.70	−1.04	1.56	−1.92	2.43	−1.55	4.18	+0.55	6.10	+2.61	2.65	−2.31	1.97	−3.14	4.85	+0.91	1.45	−1.55	6.80	+4.03	1.62	−1.18 39.74	−3.82
Fort George G. Meade	4.03	.....	2.08	.....	1.3	.....	2.27	.....	5.98	.....	6.25	.....	2.11	....	4.04	....	1.99	.....	1.75	.....	6.19	....	1.63	.... 39.68	.....
Frederick	3.74	+0.60	1.60	−1.30	1.45	−1.96	1.85	−1.70	5.42	+1.76	3.97	−0.21	4.36	+0.39	3.44	−0.37	2.82	−1.08	1.24	−1.71	5.02	+2.39	1.26	−1.80 35.67	−4.99
Frederick (Airport)	3.52	.....	1.54	.....	1.61	.....	2.75	.....	4.86	.....	4.40	.....	3.71	....	4.18	....	1.78	.....	1.23	.....	4.91	....	1.24	.... 35.73	.....
Frostburg	3.17	−0.19	2.33	−0.27	1.84	−1.81	1.90	−1.90	4.58	+0.49	3.19	−1.56	5.12	+1.34	10.20	+6.10	2.15	−1.04	0.98	−2.27	4.42	+1.95	0.98	−1.93 40.81	−1.09
Germantown	3.21	.....	1.45	.....	1.79	.....	1.90	.....	5.27	.....	3.65	.....		....	3.21	....	2.88	.....	0.74	.....	4.17	....	1.32	.... 33.53	.....
Great Falls	3.79	+0.61	1.50	−1.19	1.52	−1.71	1.76	−1.43	5.12	+1.73	4.25	+0.67	4.48	+0.37	4.43	+0.35	3.99	+0.48	0.78	−2.16	3.86	+1.47	1.19	−1.87 36.67	−2.68
Hancock (River)	3.33	+0.72	1.38	−0.79	1.46	−1.72	1.63	−1.53	3.80	+0.42	3.21	−0.85	3.93	+0.42	2.77	−0.40	1.73	−1.17	1.03	−2.22	3.20	+0.92	0.62	−2.03 28.09	−8.23
Hancock	3.37	+0.76	1.21	−0.96	1.49	−1.69	1.69	−1.47	4.05	+0.67	3.53	−0.53	5.12	+1.61	2.83	−0.34	1.82	−1.08	1.08	−2.17	3.37	+1.09	0.47	−2.18 30.03	−6.29
Huntingtown	4.66	+1.23	1.21	−1.46	1.88	−1.38	2.47	−1.14	4.53	+1.06	4.68	+0.68	4.64	−0.74	2.38	−1.82	4.22	+0.72	2.21	−1.48	7.25	+4.16	1.70	−1.13 41.83	−1.30
Keedysville	3.03	+0.22	1.82	−0.52	1.54	−1.45	1.56	−1.71	3.98	+0.58	4.77	+0.91	6.05	+2.30	2.61	−1.44	1.22	−2.04	0.99	−2.31	3.68	+1.36	0.72	−2.08 31.92	−6.18
La Plata	5.45	+1.70	1.20	−1.77	1.63	−1.76	2.55	−1.46	4.40	+0.78	4.48	+0.12	2.90	−1.84	2.45	−2.18	4.03	+0.32	1.20	−1.92	5.80	+3.04	1.70	−1.13 37.79	−6.10
Luke	2.46	+0.47	0.90	−0.91	1.09	−1.53	1.41	−1.19	3.43	−0.47	2.61	−1.28	3.60	+0.10	7.10	+3.24	2.71	+0.99	0.79	−1.63	4.33	+1.98	0.60	−1.33 31.03	−1.56
Maryland Line	3.49	−0.13	1.95	−0.85	1.47	−2.22	2.31	−1.72	6.55	+3.06	2.33	−1.74	3.83	−0.53	1.03	−3.65	1.97	−1.99	2.63	−1.32	6.09	+2.94	1.72	−1.34 35.37	−9.49
Millington	4.67	+1.02	1.75	−1.48	1.75	−2.14	8.04	−0.55	5.44	+2.23	3.10	−0.57	2.26	−2.00	3.81	−1.02	2.71	−0.89	0.96	−2.06	6.65	+3.94	1.92	−1.54 38.46	−5.06
Oakland	4.98	+0.98	3.15	−0.20	3.20	−0.83	2.97	−1.27	4.26	−0.14	4.05	−0.62	5.40	+0.70	3.44	−0.99	3.22	−0.02	1.35	−1.97	5.23	+2.39	2.32	−1.36 43.57	−3.33
Oxford	5.23	+2.32	1.27	−1.15	1.12	−1.90	3.32	+0.21	4.88	+1.12	4.30	+0.55	4.52	−1.02	2.84	−1.08	3.47	+0.33	1.74	−1.46	5.39	+2.65	1.75	−0.87 39.82	−0.30
Perry Point	3.41	.....	1.43	.....	1.92	.....	3.31	.....	7.86	.....	2.88	.....	5.23	....	2.36	....	8.57	.....	1.38	.....	5.35	....	1.93	.... 40.63	.....
Picardy	3.15	+0.82	1.40	−0.68	1.40	−1.62	2.85	−0.56	3.00	−0.42	1.70	−2.07	9.10	+5.95	3.05	−0.75	2.77	−0.02	1.03	−2.35	4.12	+1.92	0.57	−1.80 34.14	−1.53
Prettyboy Dam	4.18	+0.81	1.94	−0.82	2.00	−1.84	2.28	−1.36	6.64	+2.55	4.24	+0.21	5.29	+1.04	1.82	−3.24	3.41	−0.62	2.53	−1.19	6.50	+3.23	1.31	−1.78 42.20	−3.01
Ridgely	4.57	+1.19	0.95	−2.15	1.49	−2.18	2.22	−1.16	6.88	+3.33	4.21	+0.43	3.70	−0.93	2.25	−2.49	3.93	+0.41	1.46	−1.57	4.38	+1.64	2.01	−1.07 38.05	−4.55
Rock Hall	4.19	+0.63	1.83	−1.79	1.12	−2.51	3.39	−0.20	5.52	+2.40	5.04	+1.60	4.77	−0.01	2.21	−2.58	3.86	+0.20	2.40	−0.59	8.16	+3.33	1.80	−1.30 41.73	−0.82
Salisbury	5.45	+1.77	1.14	−2.09	2.02	−1.94	4.00	+0.56	2.71	−0.76	2.56	−1.17	2.17	−2.17	3.27	−2.07	8.61	−0.28	2.06	−1.13	4.63	+1.88	2.80	−0.42 36.42	−7.77
Sines (Deep Creek)	4.67	+0.93	3.73	+0.29	2.67	−1.73	2.77	−1.63	4.42	+0.04	4.99	+0.30	8.50	+4.03	3.26	−1.06	2.85	−0.30	1.46	−2.14	4.65	+1.56	2.59	−0.84 46.56	−0.55
Snow Hill	4.72	+0.95	1.63	−1.88	2.25	−1.89	5.45	+1.84	3.60	+0.57	4.99	+1.62	2.48	−2.29	4.92	+0.11	3.11	−0.96	3.24	+0.15	5.66	+2.90	3.21	−0.12 45.26	+0.96
Solomons	5.21	+2.16	1.84	−1.05	1.89	−1.43	3.60	+0.43	5.01	+1.97	3.67	+0.29	2.69	−1.93	2.58	−1.40	2.89	−0.05	1.64	−1.07	6.65	+4.48	1.80	−0.92 39.47	+1.48
State Sanatorium	3.49	+0.11	1.92	−0.89	1.53	−2.17	1.87	−2.06	5.69	+5.09	5.5	+1.17	7.49	+3.46	4.91	+0.52	1.57	−2.28	1.56	−2.17	4.93	+2.07	1.05	−2.18 41.56	−2.7
Takoma Park No.1	4.05	+0.50	1.63	−1.29	1.41	−2.12	2.52	−0.97	6.71	+3.34	5.5	+1.68	5.66	+1.38	3.67	−0.60	3.87	+0.23	1.14	−1.86	5.74	+3.27	1.34	−1.97 43.29	+1.59
Takoma Park No. 2	4.00	.....	1.55	.....	1.30	.....	2.09	.....	6.33	.....	4.91	.....	4.79	....	4.91	....	4.80	.....	0.97	.....	5.71	....	1.25	.... 42.61	.....
Tonoloway	2.93	+0.40	1.20	−0.90	1.12	−2.01	2.55	−1.05	2.70	−0.84	3.09	−1.07	6.40	+3.05	3.48	+0.19	1.41	−1.58	1.86	−2.25	3.43	+1.09	0.38	−2.96 30.00	−7.93
Unionville	3.78	.....	1.79	.....	1.50	.....	1.63	.....	6.52	.....	3.22	.....	2.71	....	5.01	....	1.60	.....	1.13	.....	5.76	....	1.22	.... 38.10	.....
Western Port	3.20	+0.48	1.82	−0.48	2.03	−0.98	1.97	−1.16	2.58	−1.06	2.54	−1.44	4.98	+1.25	6.91	+3.24	3.54	+0.75	0.73	−1.89	4.13	+2.10	0.83	−1.61 35.26	−0.80
Westminster	3.61	+0.42	2.38	−0.61	1.68	−2.14	1.76	−1.81	4.94	+1.34	4.11	+0.16	3.75	−0.19	1.92	−2.75	1.52	−2.36	0.98	−2.40	6.43	+3.49	1.85	−1.38 34.93	−8.23
Williamsport	3.30	.....	1.62	.....	1.48	.....	1.69	.....	6.02	.....	5.83	.....	6.31	....	6.98	....		.....	0.60	.....	1.68	....	3.77	.... 40.06	.....
Woodstock	3.06	−0.22	1.30	−1.72	1.41	−2.18	1.79	−1.52	5.99	+2.40	3.87	+0.12	3.96	+0.03	2.08	−2.09	2.89	−0.68	1.89	−1.24	6.08	+3.30	2.22	−0.82 36.54	−4.62
District of Columbia																									
Washington (U.S.W.B.)	3.72	+0.17	1.65	−1.62	1.24	−2.51	3.87	+0.10	4.05	+0.35	5.76	+1.63	5.35	+0.64	3.68	−0.33	3.70	+0.46	1.31	−1.53	5.09	+2.72	1.47	−1.85 40.39	−1.77
Delaware																									
Bridgeville	5.12	+1.57	1.07	−2.25	1.73	−2.15	3.88	+0.39	5.79	+2.21	3.10	−0.49	4.48	−0.56	1.95	−2.70	3.63	+0.22	1.76	−1.85	4.24	+1.61	2.30	−0.85 39.05	−4.35
Delaware City	5.11	+2.06	1.41	−1.34	2.12	−1.20	2.82	−0.61	6.89	+3.58	4.10	+0.22	3.45	−0.27	5.37	+0.94	1.93	−1.57	1.81	−1.50	5.94	+3.40	1.80	−1.49 42.25	+2.22
Dover	5.26	+1.80	1.08	−2.17	1.84	−2.25	2.85	−0.78	6.49	+2.91	3.71	+0.05	3.15	−1.59	5.86	+0.99	2.43	−1.34	1.33	−1.61	4.38	+1.29	1.79	−1.53 40.17	−4.23
Georgetown	5.25	.....	1.01	.....	1.81	.....	4.05	.....	3.00	.....	2.21	.....	4.28	....	4.34	....	4.60	.....	1.51	.....	4.29	....	3.05	.... 39.40	.....
Lewes	5.81	.....	1.74	.....	1.12	.....	4.42	.....	4.27	.....	3.86	.....	1.33	....	5.43	....		.....	1.97	.....	4.92	....	2.78	.... 38.58	.....
Millsboro	5.68	+1.91	1.44	−2.13	1.85	−2.27	4.39	+0.72	2.81	−1.16	3.42	−0.37	4.22	−0.54	3.00	−2.34	3.74	+0.06	2.19	−1.33	4.61	+1.72	2.94	−0.68 39.79	−6.41
Newark (Pumping Station)	3.60	+0.20	1.70	−1.39	1.90	−1.84	2.69	−0.93	10.14	+6.80	3.73	−0.27	4.45	−0.30	1.55	−3.40	2.77	−0.82	1.74	−1.55	5.24	+2.30	1.90	−1.58 41.47	−3.78
Newark (University Farm)	3.58	+0.18	1.70	−1.39	2.11	−1.63	3.16	−0.46	10.16	+6.32	3.75	−0.25	4.68	−0.07	1.91	−3.04	3.12	−0.47	1.39	−1.90	6.09	+3.15	1.67	−1.87 43.32	−1.43
Wilm'n. (Municipal Bldg.)	3.60	+0.07	1.79	−1.43	2.28	−1.35	3.25	−0.32	9.99	+6.50	3.78	−0.19	3.22	−1.57	2.00	−3.00	2.88	−1.14	2.74	−0.41	6.96	+3.95	1.83	−1.65 43.82	−0.54
Wilm'n. (Porter Reservoir)	3.72	+0.15	1.47	−1.60	2.39	−1.45	6.20	+2.37	7.24	+3.77	4.27	+0.32	2.99	−1.94	2.31	−2.87	2.19	−1.51	2.23	−0.84	8.11	+5.06	1.80	−1.51 44.92	−0.05
For Maryland and District of Columbia	3.82	+0.52	1.64	−1.28	1.66	−1.88	2.65	−0.83	5.17	+1.57	4.53	+0.54	4.40	+0.08	3.30	−1.12	2.98	−0.38	1.47	−1.54	5.42	+2.81	1.50	−1.61 38.54	−3.12
For Delaware	4.79	+1.25	1.41	−1.80	1.92	−1.89	3.89	+0.35	6.63	+3.10	3.54	−0.29	3.66	−1.07	2.97	−1.88	3.23	−0.21	1.87	−1.24	5.47	+2.66	2.19	−1.18 41.57	−2.20
For entire section	3.95	+0.62	1.61	−1.34	1.70	−1.88	2.81	−0.67	5.38	+1.79	4.39	+0.42	4.29	−0.07	3.26	−1.22	3.01	−0.35	1.52	−1.51	5.43	+2.80	1.61	−1.53 38.96	−2.94

*Determined from surrounding stations.

(Continued from preceding page)

20th to the 25th caused light frost in "frost pockets" of Garrett County. Precipitation averaged near the July normal but amounts for the various stations ranged from 1½ inches to 9 inches but was well distributed through the month. Showers were reported from some portion of the section on all except 4 days, but many were very light.

As the month came to an end, crops were making good growth, except where soil moisture was locally deficient, and farm work was proceeding rapidly. Most small grains were cut and were being threshed as weather permitted. Corn was thriving as it recovered from a slow start. Truck crops and gardens were mostly good to very good, although deteriorating locally due to dry weather, Japanese beetles, and tomato blight. Early tree fruits were being harvested as later varieties were developing and coloring. Tobacco was improving and some plants were blooming but the crop was only fair.

Pastures and hay crops were mostly good to excellent.

Summer heat prevailed through most of August to make it the second warmest of record. This August was 6.3 degrees warmer than August 1946, which was next to the coolest such month of record. The first week was below normal, but the rest of the month was generally well above normal. August was a little deficient in rainfall. The greatest deficiencies were near and east of the Chesapeake Bay. Precipitation was well distributed through the month in most of Delaware and near the District of Columbia but elsewhere most of the rain fell during the latter half of the month.

Warm temperatures and generally ample soil moisture made August weather good for crops. As the month ended, corn was thriving and improving but still was late. Preparation of the ground for winter grain was beginning. Truck crops and gardens were

Monthly and Annual Mean Temperatures for the Year 1947 with Departures from the Normal

Stations	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																										
Aberdeen	37.7	+5.3	28.6	−5.0	36.8	−5.4	52.4	+1.0	60.8	−1.7	68.5	−3.2	74.4	−1.4	75.5	+1.7	67.6	−0.6	61.0	+4.0	42.7	−2.6	32.6	−2.3	53.2	−0.8
Annapolis	40.9	+6.5	30.4	−4.5	38.8	−4.5	53.4	+0.3	62.2	−1.8	70.6	−2.5	74.5	−2.9	77.2	+1.3	69.8	+1.1	63.4	+6.1	46.1	−0.9	36.2	−0.8	55.3	−0.2
Baltimore (U.S.W.B.)	41.4	+7.6	31.8	−3.6	40.4	−1.9	55.8	+2.2	64.5	+0.1	71.6	−1.1	76.7	−0.5	78.6	+3.1	70.0	+1.5	64.8	+6.6	46.4	+0.1	37.0	−0.2	56.6	+1.2
Baltimore (Airport)	40.0	+8.4	30.8	−2.7	39.4	−1.1	54.8	+2.5	64.0	+0.1	71.4	−1.1	76.4	−0.3	78.4	+3.4	69.4	+1.8	63.8	+6.6	45.8	+1.1	35.8	+0.4	55.8	+1.6
Bell	40.4	+6.8	30.2	−5.1	37.1	−6.8	55.8	+3.2	63.6	+0.5	69.8	−2.4	73.5	−2.2	76.4	+2.8	68.8	+0.6	61.2	+5.7	43.2	−2.3	33.3	−2.3	54.4	−0.2
Beltsville							52.2		62.2		68.6		72.5				66.8		60.2		41.9		31.7			
Blackwater	42.4		33.2		40.0		56.4		65.3		71.3		75.7		78.0		70.6		64.2		45.9		37.4		56.7	
Cambridge	42.4	+6.5	32.0	−4.2	38.8	−6.2	54.9	+0.4	64.6	−0.6	70.0	−3.5	74.6	−3.1	77.4	+1.4	69.7	−0.6	63.0	+4.0	45.2	−2.7	35.7	−2.6	55.7	−0.9
Charlotte Hall	41.2	+7.6	31.6	−3.0	38.4	−6.3	56.8	+3.0	64.6	−0.5	69.8	−3.2	74.5	−2.1	77.6	+2.2	68.6	−0.5	62.6	+5.1	44.9	−2.1	36.2	−0.7	55.6	0.0
Cheltenham	39.6	+5.0	28.8	−6.4	37.6	−6.9	54.5	+0.9	63.4	−0.3	69.4	−2.2	73.8	−2.1	76.8	+2.8	68.1	−0.4	62.1	+5.1	44.8	−1.2	34.2	−1.8	54.4	−0.6
Chestertown	39.8	+6.8	30.4	−2.7	37.9	−5.2	53.6	+1.3	63.2	−0.3	70.4	−1.2	75.4	−0.8	77.4	+3.1	69.2	+0.9	63.5	+7.1	44.4	−1.4	34.8	−0.9	55.0	+0.6
Chewsville	37.0	+6.2	27.6	−3.6	34.6	−6.4	53.0	+2.6	60.0	−1.0	67.9	−1.6	70.7	−3.4	74.4	+2.4	65.6	−0.4	59.0	+4.7	40.8	−2.3	31.7	−1.1	51.9	−0.3
Clear Spring	37.8	+6.9	29.0	−1.6	38.5	−2.4	54.9	+4.7	61.6	−0.1	68.4	−0.9	71.6	−2.7	75.5	+3.3	66.8	+0.4	61.4	+7.1	42.4	−0.9	32.6	+0.3	53.4	+1.1
Coleman	40.6	+6.9	31.6	−2.3	39.7	−3.6	55.9	+2.9	64.2	+0.4	71.6	−0.5	76.2	−0.9	78.2	+3.6	70.8	+1.4	65.2	+7.1	45.7	−1.1	35.8	−0.3	56.3	+1.1
College Park	41.2	+7.3	31.4	−3.4	38.6	−5.3	56.4	+3.3	64.6	+1.4	71.2	−0.4	74.4	−1.3	76.9	+2.9	69.4	+1.3	62.0	+5.7	44.2	−1.1	34.6	−1.6	55.4	+0.7
Conowingo Dam	36.2	+5.7	27.6	−4.1	35.8	−5.2	51.8	+0.7	60.8	−2.0	68.2	−2.6	73.0	−1.8	75.2	+1.6	67.0	+0.4	60.0	+4.0	42.3	−1.4	30.9	−2.3	52.4	−0.6
Crisfield	45.9	+7.8	37.7	−1.5	41.8	−5.7	58.0	+2.5	67.8	+2.3	73.8	−0.7	78.6	+0.6	80.2	+3.4	74.8	+2.6	68.2	+7.3	51.8	+0.9	40.4	−0.2	59.9	+1.6
Cumberland	37.6	+6.1	27.8	−5.4	36.1	−4.4	54.6	+2.2	62.6	−0.6	69.6	−1.4	70.7	−3.9	75.6	+2.9	65.4	−0.6	60.3	+5.8	40.4	−2.6	30.6	−3.5	52.6	−0.4
Easton	41.4	+6.4	31.8	−3.4	39.2	−5.1	55.9	+2.5	63.9	+0.1	70.6	−1.3	74.7	−1.7	77.0	+2.3	69.1	+0.2	62.4	+4.8	44.4	−2.5	35.3	−1.8	55.5	+0.1
Elkton	37.9	+4.6	29.4	−4.0	37.6	−4.7	53.6	+1.8	62.4	−0.9	70.0	−1.9	74.5	−1.4	76.5	+2.4	68.3	+0.2	61.6	+5.6	42.9	−2.8	32.9	−2.2	54.0	−0.2
Emmitsburg	38.0	+6.8	29.5	−2.9	37.3	−3.5	54.0	+2.1											61.6	+6.5	42.4	−1.2	33.6	+0.1		
Fallston	38.4	+7.0	29.0	−3.1	36.7	−3.6	53.6	+2.7	61.6	−0.1	68.8	−1.1	73.2	−1.1	75.4	+3.0	67.6	+1.2	62.4	+7.1	42.7	−1.3	32.9	−1.2	53.5	+0.8
Ferry Landing	42.2	+6.9	32.0	−4.8	38.9	−6.6	56.6	+2.8	64.0	−0.1	70.0	−2.8	74.2	−2.1	77.0	+2.4	68.8	−0.2	62.9	+4.9	45.2	−2.4	36.0	−1.7	55.6	−0.4
Fort George G. Meade	43.8		32.5		41.2		57.6		64.6		70.6		70.2		74.4		64.8		60.2		41.8		32.3		54.5	
Frederick	38.2	+5.8	29.0	−4.4	36.0	−6.4	54.6	+1.8	61.6	−2.2	69.4	−2.8	73.2	−3.4	76.8	+2.6	67.8	0.0	60.4	+4.5	41.8	−2.5	32.6	−2.2	53.5	−0.7
Frederick (Airport)	37.9		28.6		36.6		53.5		61.6		69.4		72.8		76.0		66.5		61.0		41.8		32.7		53.2	
Frostburg	33.9	+3.7	23.6	−7.1	31.8	−7.3	52.6	+3.1	61.6	−2.5	66.3	−1	68.6	−3.1	72.8	+2.8	63.8	−0.7	57.4	+4.3	37.2	−4.8	30.2	+0.8	49.6	−1.1
Germantown	39.4		29.4		37.1		54.8		62.6		69.0		73.2		76.3		67.6		62.1		43.4		34.6		54.1	
Great Falls	40.4	+7.2	30.7	−3.1	38.0	−5.7	55.8	+2.7	64.2	+0.4	71.0	−0.6	73.2	−2.7	77.6	+3.7	69.0	+0.8	62.6	+6.3	44.2	+1.3	33.8	−0.9	55.0	+0.7
Hancock	35.4	+5.0	27.4	−2.1	34.6	−7.1	52.8	+0.3	60.4	−2.7	67.3	−3.7	70.6	−3.9	75.3	+2.3	65.4	−1.7	58.6	+3.4	40.5	−2.9	31.2	−2.0	51.6	−1.3
Huntingtown	42.0	+6.3	31.1	−5.9	38.2	−6.6	56.2	+2.1	64.2	−0.4	70.1	−2.4	74.2	−1.1	76.7	+2.5	68.8	+0.7	63.0	+5.2	45.2	−2.5	35.6	−1.9	55.4	−0.4
Keedysville	40.0	+7.9	29.8	−3.4	37.0	−5.9	55.6	+2.9	62.6	−0.8	69.8	−1.5	72.8	−2.9	77.5	+3.5	68.9	+1.2	62.7	+6.9	43.1	−1.4	33.5	−0.6	54.4	+0.4
La Plata	41.6	+5.4	31.2	−6.1	38.8	−7.3	56.8	+2.4	65.1	+1.2	70.8	+0.7	74.6	−1.9	78.3	+3.3	69.6	−0.3	64.0	+6.4	45.7	−1.6	35.0	−2.9	56.0	0.0
Maryland Line	37.8	+6.5	27.8	−4.4	35.9	−4.5	53.6	+3.3	61.3	−0.7	68.5	−1.7	72.8	−1.4	75.6	+3.0	67.5	+0.6	63.2	+8.5	41.8	−2.5	32.4	−1.0	53.2	+0.5
Millington	40.9	+6.8	30.8	−3.4	38.0	−5.9	55.7	+2.5	63.4	−0.1	70.4	−1.2	75.1	−1.0	77.2	+3.1	69.3	+0.7	64.0	+6.8	44.6	−1.5	34.6	−1.6	55.3	+0.4
Oakland	34.9	+6.5	19.5	−8.9	28.0	−8.7	51.2	+5.1	61.3	−0.7	63.8	−0.3	65.4	−1.9	71.2	+5.2	62.6	+1.7	56.5	+6.9	37.3	−1.2	29.4	−0.4	47.9	+0.3
Oxford	42.2	+6.5	33.4	−4.3	39.8	−6.6	56.1	+0.1	65.3	−1.3	70.8	−3.6	75.2	−2.4	77.2	+0.1	70.1	−0.8	63.6	+5.8	46.0	−3.4	36.8	−1.9	56.4	−1.2
Picardy	39.0	+4.7	29.2	−5.7	35.9	−6.4	56.2	+5.0	61.7	−0.7	69.2	−0.8	73.0	−3.2	75.3	+3.3	65.2	−0.9	59.4	+4.9	41.4	−3.1	32.8	−1.4	52.9	−0.4
Prettyboy Dam	37.4	+5.3	27.8	−4.0	31.9	−6.0	53.0	+2.3	60.6	−2.0	68.2	−2.2	72.0	−2.3	75.0	+2.2	66.5	−0.1	61.5	+5.9	41.4	−3.2	32.2	−2.0	52.6	−0.4
Ridgely	41.8	+7.0	31.5	−3.4	38.2	−6.0	55.2	+2.0	64.0	+0.2	70.2	−2.0	74.0	−2.5	75.9	+1.4	68.6	−0.3	62.5	+5.1	44.4	−2.3	35.0	−1.5	55.1	−0.2
Rock Hall	40.8	+6.5	31.6	−3.2	39.1	−5.1	55.0	+2.1	64.5	+0.8	71.4	−1.6	75.7	−1.4	78.0	+2.7	69.8	0 0	63.4	+5.3	*44.5	−2.5	*35.0	−1.5	55.7	+0.1
Salisbury	44.4	+6.8	34.6	−3.2	40.6	−4.9	57.4	+3.2	66.4	+2.2	71.6	−1.1	76.2	−0.6	79.1	+3.8	71.4	+1.8	65.0	+6.6	46.4	−1.5	37.2	−1.5	57.5	+0.9
Sines (Deep Creek)	34.0	+5.9	20.2	−7.5	27.8	−7.7	49.4	+3.9	55.1	−0.9	62.7	−1.6	65.2	−2.1	70.5	+4.9	60.1	+0.5	54.6	+5.6	35.0	−3.2	27.2	−2.3	46.8	−0.4
Snow Hill	43.6	+6.6	33.0	−4.6	39.8	−5.0	55.2	+2.7	64.8	+1.7	70.6	−1.4	74.2	−1.8	76.8	+2.3	69.4	+2.3	61.7	+3.6	41.4	−3.6	35.5	−3.4	55.7	−0.3
Solomons	43.7	+7.4	34.0	−2.4	40.0	−5.0	56.5	+1.7	66.1	+0.8	72.6	−1.1	77.2	−1 0	79.8	+2.6	72.8	+1.0	65.4	+5.0	48.6	−0.5	38.8	−0.2	58.0	+0.7
State Sanatorium	35.8	+5.2	26.1	−5.2	32.6	−7.8	50.1	−0.6									65.5	−0.3	60.3	+5.4	42.0	−1.4	33.2	+0.6		
Takoma Park No. 1	41.0	+7.5	31.5	−2.5	39.2	−4.6	59.2	+3.9	64.4	+0.8	70.6	−0.6	73.8	−1.8	76.6	+2.9	68.5	+0.7	62.8	+6.1	45.0	−0.9	35.6	+0.1	55.5	+0.9
Takoma Park No. 2	40.4		30.4		37.8		56.6		63.0		69.7		73.2		76.0		67.8		61.6		44.2		34.2		54.6	
Tonoloway	36.6	+5.0	27.4	−6.0	34.6	−6.8	53.4	+2.8	60.6	−0.5	67.2	−2.5	70.6	−3.1	74.6	+3.1	65.0	−0.9	59.1	+5.5	41.2	−2.1	32.0	−1.4	51.9	−0.5
Unionville	35.4		26.8		*35.0		50.8		58.8		66.4		66.9		73.2		64.2		56.6		41.0		31.0		50.7	
Western Port	38.4	+6.7	27.2	−5.5	35.6	−6.6	56.4	+4.6	62.0	−0.2	68.6	−1.1	71.2	−2.5	76.2	+4.2	66.8	+0.1	61.9	+6.8	42.1	−1.5	33.8	+0.1	53.4	+0.5
Westminster	38.2	+7.2	28.8	−3.0	36.4	−4.4	54.6	+4.5	61.7	+0.6	69.0	+0.1	73.4	−0.4	75.6	+4.5	67.6	+2.1	61.6	+7.8	41.8	−1 7	32.4	−1.5	53.4	+1.4
Woodstock	38.7	+6.6	29.2	−4.0	36.9	−4.7	54.6	+2.4	62.5	−0.6	69.3	−1.7	73.2	−2.0	76.1	+3 2	66.8	+0 5	59.9	+5.0	42.2	−1.5	32 0	−2 3	53.4	0.0
District of Columbia																										
Washington (U.S.W.B.)	42.2	+8.8	31.7	−3.6	40.2	−2.4	57.4	+4.1	65.4	+1.7	72.6	+0.4	76.2	−0.6	79.6	+4.5	70.4	+2.3	65.0	+7.6	46.4	+1.2	36.9	+0.3	57.0	+2.0
Delaware																										
Bridgeville	41.1	+5.8	30.4	−5.0	38.0	−6.2	54.0	+1.0	63.2	−0.1	69.4	−2.2	73.5	−2.5	75.6	+1.8	69.0	+0.4	63.4	+6.1	45.0	−1.7	35.6	−1.7	54.8	−0.4
Delaware City	39.3	+6.3	30.2	−3.8	38.2	−3.6	54.1	+1.9	62.8	−0.6	68.8	−3.4	74.6	−2.1	75.9	+1.0	68.0	−0.7	62.8	+5.2	44.2	−2.1	34.4	−1.7	54.4	+0.3
Dover	42.4	+7.3	31.8	−3.7	38.4	−4.8	55.2	+2.1	63.8	−0.1	70.6	−2.0	75.0	−1.7	76.4	+1.7	69.0	+0.2	62.4	+5.1	44.6	−1.8	35.2	−1.7	55.4	+0.1
Georgetown	42.4		31.6		38.0		54.6		64.5		70.2		74.6		76.2		69.0		62.4		44.2		34.4		55.2	
Lewes	41.7		30.9		36.6		53.3		61.6		67.0		73.1		75.5		70.0		62.2		44.6		35.5		54.3	
Millsboro	44.6	+8.7	32.8	−3.0	40.2	−4.2	55.3	+2.4	65.4	+2.1	70.6	−1.1	75.8	−0.5	77.3	+2.5	69.4	+0.3	63.4	+5.8	45.2	−1.9	35.6	−2.1	56.3	+0.8
Newark (Univ. Farm)	38.7	+7.7	28.8	−1.0	36.4	−4.5	52.6	+1.6	61.7	−0.4	68.6	−1.4	73.6	−1.3	75.2	+2.4	67.3	+1.0	62.0	+6.8	42.8	−0.6	33.2	+0.3	53.4	+0.9
Wilm'n. (Porter Res.)	37.8	+5.0	27.8	−5.9	36.5	−5.7	51.4	−0.8	60.9	−2.2	68.0	−3.5	73.8	−2.3	75.2	+1.2	67.5	−0.7	62.2	+5.5	42.9	−2.7	33.4	−1.6	53.1	−1.1
For Maryland and District of Columbia	39.6	+6.5	29.6	−3.6	37.3	−5.4	54.7	+2.4	62.7	−0.1	69.7	−1.1	73.3	−1.8	76.4	+3.0	67.9	+0.3	61.8	+5.5	43.4	−1 8	33.9	−1.2	54.2	+0.2
For Delaware	41.0	+6.2	30.5	−3.9	37.7	−5.9	53.8	+1.1	62.8	−0.4	69.2	−2.3	74.2	−1.9	75.9	+1.5	68.6	−0.1	62.6	+5.1	44.2	−2.5	34.7	−1.9	54.6	−0.4
For entire section	39.8	+6.5	29.7	−3.6	37.4	−5.5	54.6	+2.3	62.7	−0.2	69.6	−1.3	73.4	−1.8	76.3	+2.8	68.0	+0.2	61.9	+5.5	43.5	−1.8	34.0	−1.3	54.2	+0.1

*Determined from surrounding stations.

(Continued from preceding page)

good or better. Early tree fruits were being harvested. Tobacco was only fair as late August rains greened the plants and delayed cutting. Pastures were good to excellent.

September temperatures and precipitation were about normal. The first 22 days were above normal but the last 8 days were 8 to 10 degrees below normal. The coldest period was the 27-28th when killing frost occurred in mountains and spotty frost in Piedmont and interior Del-Mar sections. A 31-degree reading at Newark on the 27th was the lowest September temperature in the Delaware records. Rainfall was well distributed through September and distribution over the section was very good. The month was generally good for crop development. As September ended, corn was in various stages of harvest through the section. The ground was being prepared for winter grains with some fields already seeded. Truck crops were in diminishing supply. Tree fruits were being harvested. The tobacco crop was mostly in the barns. Pastures were mostly good to very good.

The mean monthly temperature for October was only 0.5 degree lower than the record highest for the month. The month was coldest on the 1st and the last half was much warmer than the first half, and averaged 12 to 15 degrees above normal. Except for substantial rains in southern Delaware and southeastern Maryland on the 8th, only light rain fell between September 25th and October 28th. The last 4 days brought an end to the dry soil and low stream and well conditions.

October's warm, dry weather was ideal for the corn harvest. The unusual cold of the 1st killed tender vegetation and damaged some hardier plants. Where soils were dry, seeding and germination of winter grains were delayed, but these activities accelerated greatly at the end of the month. Pastures deteriorated during the month on account of the freezing temperatures on the 1st and the later dry weather.

November was wet with the only measurable snow in Garrett and Allegany Counties. Precipitation distribution through the month was excellent. Temperatures averaged 1.8 degrees below normal. The seeding of winter grains accelerated.

December was dry but the precipitation had very good distribution through the month. The first general snow of the winter fell on the 25-26th, with most amounts from 3 to 6 inches. December temperatures were slightly below normal. As a whole, moderately cold weather, with no extremely warm or cold periods, predominated. Winter grains and grasses were mostly in a fair condition but were snow-covered and dormant.