

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

January was the rainiest of record. January 17-25 was a very wet period. February and March were windy. There were four cold periods in February and two prolonged ones in March. During the night of February 21-22 a tornado moved from extreme southern Anne Arundel County northeastward to the Quaker Neck area of southwestern Kent County; damage \$100,000. Snowfall was moderate to heavy in the east portion of north-central Maryland on March 11; in western and north-central Maryland on March 14; and over the northern portion of the section on March 15. Monthly rainfall in April in Washington, Frederick, Carroll, and Baltimore Counties was the greatest of record for April. The heavy rainfall of April 25-28 caused high water in all streams and produced the third greatest flood of record on the Potomac River; damage to roads, bridges, and miscellaneous property in western and central divisions was \$250,000. Local tornadoes on May 6, 13, 22, and 26 caused \$225,000 damage. Severe and damaging local thunder-gusts occurred on May 19, 22, 23, and 26. Heavy hail at Baltimore on May 26 caused \$75,000 damage. The first decade of June was very warm. Heavy thundershowers on July 5 in Harford, Cecil, and northwestern New Castle Counties flooded fields and roads and caused streams to overflow their banks; some small bridges and portions of some roads were washed away; 20,000 persons were marooned for many hours at the Delaware Park race track near Stanton; and 2 men were drowned in the Christiana River at Cooch's Bridge. Heavy thundershowers on July 22 washed fields and the highway badly in the Bear Creek district of northwestern Garrett County. In August: the weather was very warm during the 17th-21st and very cool during the 23d-25th; daytime temperatures on the 29-30th were very low; the first and second decades were dry; the third decade was very wet, with heavy rains during the 22d-27th. Heavy thundershowers on August 7 and 12 in extreme eastern Baltimore, Harford, Cecil, and northern New Castle Counties flooded

(Continued on next page)

CONDENSED SUMMARY OF CLIMATOLOGICAL DATA 1937

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	41.9	+7.9	77	11	7.52	+4.22	2.50	1.0	17	3	6	ne.	
February	34.9	+1.0	72	0	3.20	+0.25	2.90	3.5	12	8	8	nw.	
March	39.4	-2.8	74	1	2.02	-1.55	1.46	9.0	8	14	9	nw.	
April	51.2	-0.9	94	19	6.38	+2.93	5.84	0.1	12	3	9	nw.	
May	63.2	+0.7	95	27	3.44	+0.03	3.30	0.0	11	16	12	sw.	
June	72.3	+1.5	99	41	4.99	+0.95	2.67	0.0	12	11	13	sw.	
July	74.9	-0.3	100	39	3.80	-0.42	3.46	0.0	10	14	13	sw.	
August	75.6	+2.5	100	44	7.05	+2.46	4.24	0.0	13	12	11	sw.	
September	64.3	-3.6	96	26	1.72	-1.45	2.24	0.0	6	17	6	nw.	
October	53.7	-2.4	87	14	7.07	+4.05	3.25	0.1	13	11	8	nw.	
November	44.4	-0.8	79	3	3.45	+0.99	4.95	0.5	7	15	7	nw.	
December	34.7	-1.0	74	12	1.28	-2.04	1.07	1.7	7	10	9	nw.	

KILLING FROSTS 1937

Stations	Last in Spring	First in Autumn	Stations	Last in Spring	First in Autumn
<i>Maryland</i>					
Aberdeen	Apr. 11	Oct. 15	Lutherville	Apr. 13	Oct. 9
Annapolis	Apr. 11	Oct. 15	Maryland Line	Apr. 13	Oct. 15
Baltimore	Apr. 11	Oct. 15	Millington	Apr. 13	Oct. 15
Bell	Apr. 17	Oct. 9	Mt. Savage Summit	Apr. 17	Sept. 18
Boyd's	Apr. 17	Oct. 9	Oakland	May 11	Sept. 18
Cambridge	Apr. 13	Oct. 15	Oxford	Apr. 13	Oct. 15
Charlotte Hall	Apr. 12	Oct. 15	Parkton	Apr. 13	Oct. 15
Cheltenham	Apr. 12	Oct. 15	Perryville	Apr. 13	Oct. 15
Chestertown	Apr. 11	Oct. 15	Picardy	Apr. 17	Oct. 9
Chestersville	Apr. 17	Oct. 9	Pleasant Hill	Apr. 13	Oct. 9
Clear Spring	Apr. 17	Oct. 9	Princess Anne	Apr. 13	Oct. 9
Coleman	Mar. 30	Oct. 15	Rigely	Apr. 12	Oct. 15
College Park	Apr. 17	Oct. 15	Rock Hall	Apr. 11	Oct. 15
Conowingo Dam	Apr. 13	Oct. 11	Salisbury	Apr. 13	Oct. 9
Crisfield	Mar. 27	Nov. 25	Sines	May 11	Sept. 18
Cumberland	Apr. 17	Oct. 9	Snow Hill	Apr. 13	Oct. 9
Darlington	Apr. 13	Oct. 9	Solomons	Mar. 28	Nov. 21
Dundalk	Apr. 11	Oct. 17	State Sanatorium	Apr. 13	Oct. 15
Easton	Apr. 13	Oct. 15	Stevensville	Mar. 30	Oct. 15
Edgewood	Apr. 13	Oct. 15	Takoma	Apr. 12	Oct. 15
Elkton	Apr. 13	Oct. 15	Towson	Apr. 13	Oct. 15
Emmitsburg	Apr. 13	Oct. 15	Western Port	Apr. 17	Oct. 9
Fallston	Apr. 13	Oct. 15	Westminster	Apr. 17	Oct. 9
Ferry Landing	Apr. 12	Oct. 15	Woodstock	Apr. 17	Oct. 9
Frederick	Apr. 17	Oct. 15	<i>District of Columbia</i>		
Friendsville	May 11	Sept. 18	Washington	Mar. 28	Oct. 25
Frostburg	Apr. 17	Sept. 18			
Georgetown	Apr. 13	Oct. 15			
Grantsville	May 11	Sept. 18	<i>Delaware</i>		
Great Falls	Apr. 17	Oct. 9	Bridgeville	Apr. 12	Oct. 9
Hancock	May 11	Oct. 9	Delaware City	Apr. 11	Oct. 15
Hantingtown	Apr. 12	Oct. 15	Dover	Apr. 13	Oct. 15
Keedysville	Apr. 17	Oct. 9	Milford	Apr. 11	Oct. 15
La Plata	Apr. 13	Oct. 15	Millsboro	Apr. 12	Oct. 9
Laurel	Apr. 13	Oct. 15	Odessa	Apr. 13	Oct. 15
			Wilmington	Apr. 11	Oct. 15

COMPARATIVE DATA FOR THE YEAR

Year	FOR MARYLAND						FOR DELAWARE					
	Temperature			Precipitation			Temperature			Precipitation		
	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	-13	34.67	31.2	91	53.8	101	-4	37.13	19.9	95
1896	54.0	102	-13	35.09	25.2	90	55.0	103	0	40.99	11.1	96
1897	53.5	102	-12	44.53	15.6	108	54.6	97	3	46.81	14.5	111
1898	54.3	109	-20	41.78	24.3	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	36.73	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	43.43	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	0.9	99
1914	53.3	102	-30	35.97	40.4	98	54.9	101	0	37.29	23.9	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	38.20	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	53.02	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	9.5	108
1925	54.4	104	-31	34.86	24.7	114	56.0	102	-1	35.38	12.8	105
1926	52.7	107	-16	43.61	25.8	128	53.8	98	5	46.04	15.3	120
1927	54.3	100	-5	40.10	15.6	125	55.1	102	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	103	-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	62.32	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	127	54.5	99	-7	54.44	40.7	124
1936	53.6	109	-20	43.81	32.2	116	55.1	97	-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
Period	54.0	109	-40	41.31	27.2	110	54.7	110	-15	42.70	18.7	105

Climatological Data for the Year 1937

Table with columns: Stations, Counties, Elevation, Temperature (Annual mean, Highest, Date, Lowest, Date), Precipitation (Total for year, Greatest monthly, Month, Least monthly, Month, Total snowfall), Sky (Number of rainy days, Number of clear days, Number of partly cloudy days, Number of cloudy days, Prevailing direction of wind). Rows include Maryland, District of Columbia, and Delaware stations.

*Also on other dates. †Also in December. §Post Office addresses of these stations are as follows: Of Bell, Glenndale, of Coleman, Worton, of Fallston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Mt. Savage Summit, Frostburg; of Odessa, Middletown; of Picardy, Paw Paw; of Pleasant Hill, Owings Mills; of Sines, Oakland. ‡Northwest of Frostburg. §§Municipal Bldg. ¶Porter Reservoir. ††Determined from surrounding stations.

(Continued from front page) low areas, caused high water in streams, and washed fields and roads badly. Heavy hail at Salisbury on August 2 caused \$5,000 loss of crops. Severe thundergust on August 12 caused \$30,000 damage in southeastern Baltimore. September was a typical autumn month. Killing frosts and freezing temperatures occurred September 18, 20, 21, and 27 in the Allegheny Mountain region and October 15, 16, and 17 over the entire section. October 18-24 was a windy week. Heavy to excessive

rains during October 19-20, 22-23, and 27-28 produced high water in all streams. Excessive rains of October 22-23 over northwestern Prince Georges County produced floods in the tributaries of and in the Anacosta River, damage \$500,000; of October 27-28 over western Maryland produced a flood in the Potomac River during the 28-30th, damage \$250,000. In November: the weather was cold during the 17-24th; high winds were frequent, but not damaging; cloudy weather prevailed (Continued on next page)

Monthly and Annual Precipitation for the Year 1937 with Departures from the Normal

Table with columns for Stations, months (January-December), and Annual. Rows list various stations in Maryland and Delaware, including Aberdeen, Annapolis, Baltimore, and Washington (U.S.W.B.). Each station has two columns for each month: Precipitation and Departure.

*Determined from surrounding stations.

(Continued from page 50)

during the 15th-22d in the Allegheny Mountain region. The easterly storm of November 12-13 produced excessive rain over southern and north-central Maryland; fields and highways were flooded and streams overflowed their banks. The first half of December was cold, sunny, and dry; the second half was mild, with much cloudiness and occasional light precipitation.

Annual mean temperatures were mostly slightly colder than normal over the western half of the section and mostly slightly warmer than normal over the eastern half. January, June, and August were warm; February was mild; May was slightly mild; April, July, and November were slightly cool; September and

and October were cool; December was slightly cold; March was cold.

This was the sixth successive wet year. The average annual precipitation for the section was the greatest of record since 1889. Annual amounts were 50 to 60 inches in the eastern and central divisions, except 44.7 to 50 inches over the northern third of the Eastern Shore and 60 to 63 inches in Charles and southeastern Sussex Counties and in the Chestertown district; in western Maryland they were 39.7 to 50 inches, except 50 to 60 inches in the Allegheny Mountain highlands.

Annual snowfall averaged four-fifths of normal. Annual (Continued on next page)

Monthly and Annual Mean Temperatures for the Year 1937 with Departures from the Normal

Table with columns for Stations, months (January-December), and Annual. Rows list various stations in Maryland and Delaware, including Aberdeen, Annapolis, Baltimore, etc., with temperature and departure values.

*Determined from surrounding stations.

(WBO, Richmond, Va., 5-24-38-1,400)

ERRATA

July, 1937. —Page 26: Stevensville, rainfall departure published -1.89, should be +1.89.

(Continued from page 51) amounts increased from 6 to 10 inches over the southeast portion of the section to 60 to 72 inches in the Allegheny Mountain highlands. Snowfall was very light in January; was light in April, November, and December; was normal in October; was above normal in February; and was twice the normal in March.

Annual sunshine was about 5 per cent above normal. May was the sunniest month. March, July, September, November,

and December were sunny. Sunshine was slightly above normal in June; was normal in April and August; was deficient in February and October; and in January was the least of record for any month.

Barley, corn, sweet potato, tomato, cowpea, soy bean, and strawberry crops were good; wheat, rye, oats, early potato, tobacco, hay, and tree fruit crops were fair to good; pea and late potato crops were poor to good. —J. B., jr.