

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

In Cooperation with Maryland State Weather Service

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

J. R. WEEKS

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GENERAL SUMMARY

This May was featured by severe local thundergusts, a number of small tornadoes, and by several damaging hailstorms. The month was milder than normal in the eastern and central divisions, but cooler than normal in western Maryland. Monthly rainfall was below normal over the northern third of the section, but above normal in the central and southern thirds. Mild and cool periods alternated during the first and second decades. A warm spell prevailed during the third decade. The first four days were marked by clear sky and uninterrupted sunshine. Monthly sunshine was about 15 per cent above normal. Grains, other growing crops, tree fruits, grasses, and pastures did well, made good progress, and were mostly good to excellent. Planting early potatoes, peas, truck crops, gardens, and sowing oats and grasses were in progress in the Allegheny Mountain region, but ended in the other divisions during the first or second decade. Planting corn was in progress in the eastern and central divisions; it began in western Maryland during the second decade, except in the Allegheny Mountain region during the third decade. All crops came up to good stands. Setting out tomato, tobacco, and sweet potato plants was in progress.

During the last week: Wheat was headed and rye was in full bloom or had bloomed in the southern counties; wheat was heading and rye was blooming in the northern counties, except in Garrett County; barley was in bloom; height of early sown oats ranged from 2 to 3 inches in Garrett County to one foot in the southern counties; strawberries were being harvested and early potato plants were blooming in the southern and central counties; peas were being harvested in the southern counties; strawberries were developing in the northern counties, except fruiting in Garrett County; pea pods were filling out in the central counties, and pea plants were in bloom and podding in the northern counties; earliest tomato plants were blooming; clover was being cut for hay; tree fruits were sizing, except peach and pear trees were setting fruit and apple trees finished blooming in the Allegheny Mountain region.—J. B., jr.

TEMPERATURE

The monthly mean for the section, 63.2°, is 0.7° above normal. The highest monthly mean was 66.8° at Baltimore; the lowest, 54.8°, at Sines. The highest temperature, 95°, occurred at Cumberland, Keedysville and Western Port on the 31st; the lowest, 27°, at Oakland on the 11th. The greatest local monthly range was 63° at Bell and Hancock; the least, 38°, at Delaware Breakwater. The greatest daily range was 48° at Sines and Western Port on the 12th.

PRECIPITATION

The monthly average for the section, 3.44 inches, is 0.03 inch above normal. The greatest monthly amount was 6.91 inches at Dundalk; the least, 1.59 inches, at Emmitsburg. The greatest 24-hour amount was 3.90 inches at Dundalk on the 26th. The monthly average snowfall for the section was 0. The average number of days with 0.01 inch or more of precipitation, 11, is 1 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Aurora.—Night 4-5. *Fogs, light*.—4, 6, 8 to 11, 13 to 17, 27 to 30. *Fogs, dense*.—Frederick, 9; Mt. Savage Summit, 14. *Frosts, killing*.—Allegheny Mountain highlands, 1, 7, 9, 11. *Hail, light*.—Middleton to Rocky Springs (5 miles) at the south to Walkersville-Hansonsville-Ceresville area (3 miles) at the north, path 7 miles long, in Frederick County; 4 p.m. to 4:30 p.m.; sw to ne; size peas to small marbles; no damage; 13. *Corn-berland*, 17; District of Columbia and locally in Baltimore and Harford Counties, 22; Baltimore and southeastern Baltimore County, 26; Leonardtown, 26; Sines, 27; no damage. *Hail, moderate*.—Frostburg, 17; Aberdeen, and Dares Beach in Calvert County, 22; no damage. *Loud, heavy*.—Annapolis, 5 p.m., 26; nw to se; ranged from size of peas to 1 inch in diameter; Baltimore, central and east-central portions; 4:30 p.m., 26; nw to se; size marbles to walnuts; path 4 miles wide, 7 miles long; window glass on north and west sides of buildings, skylights, and greenhouse glass broken; roofs and auto tops punctured; damage, \$75,000. *Barstow to Mutual*, Calvert County; 9 p.m., 27; nw to se; path 1 mile wide, 5 miles long; hail as large as walnuts; no damage. *Halos, solar*.—12, 16, 18, 25, 26. *Rainfalls*.—6, 13, 17, 18, 22, 23, 26. *Lightning*.—Damaged barn and injured man in barn at Denton, 6; damaged home in Frederick, 13; damaged home at Public Landing, 19; destroyed barn and killed 2 cows and 2 horses at Fair Haven, extreme southern Anne Arundel County, 22; damaged barn and killed 2 horses in a field near Prince Frederick, 22; damaged house in Baltimore, 26. *Thundergusts, high*.—5, 6, 13, 17, 19, 22, 23, 26, 27. *Thunderstorms*.—5, 6, 8, 13, 16, 17, 19, 22, 23, 26, 27. *Winds, high (other than thundergusts)*.—12, 14. *Tornadoes, small*.—6th, 3000 block Northern Parkway, Baltimore City; 13th, Carroll and Frederick Counties; 22d, Dorchester County; 26th, east-central Baltimore City.

WINDSTORMS AND DAMAGE

Thundergusts.—19th; about 2 a.m., W to E; path 1 to 2 miles wide, 5 miles long; Snow Hill district; uprooted trees, unroofed office building and a garage, broke off several telegraph poles, and demolished barn; damage, \$2,000. 22d.—Late afternoon; severe gust moved from SW to NE, from Anne Arundel County across Bay to Kent County; canoe with 2 men turned over hurling the men overboard into the Severn River. In the Patuxent River, a sailing canoe was disabled by the loss of its mast and sail; no lives lost. 22d.—4:30 p.m., SW to NE; blew barn over at Lower Marlboro; damage, \$200. 22d.—4:30 p.m.; SW to NE; demolished barn near Prince Frederick; damage, \$400. 22d.—8:30 p.m.; NW to SE; area of damage, 200 feet by 400 feet; 3 miles south of Huntingtown; demolished new tobacco barn and an old garage; damage, \$1,075; loss of tobacco in barn, \$1,000; uprooted some trees. 23d.—At night; NW to SE; path 1 mile wide, 3 miles long; Snow Hill district; unroofed buildings, uprooted a number of trees, put 100 telephones out of commission; damage, \$500. *Tornadoes*.—6th, 12:45 p.m., W to E; path 100 feet wide, 1,000 feet long; along Northern Parkway of Hamilton, in northeast Baltimore; funnel shaped cloud observed; unroofed building, ripped slate from another roof, and blew away a large trellis; damage, \$500. 13th.—4:30 p.m.; SW to NE; in thunderstorm with damage 2 miles wide, 5 miles long. (Continued on page 18)

PRESSURE, HUMIDITY, SUNSHINE, WIND, DEGREE DAYS

Stations	Atmospheric pressure reduced to sea level				Wind				Mean relative humidity		Percentage of sunshine	Heating degree days (base 65°)	
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	Local n/n			7:30 p. m.
Aberdeen, Md.	30.45	1	29.68	6	9.1	34	n.	27	70	66	64	78	90
Annapolis, Md.	30.43	1	29.68	6	9.0	40	n.w.	26	65	55	70	73	72
Baltimore, Md.	30.43	1	29.68	6	9.9	40	n.w.	26	65	42	56	76	49
Elkins, W. Va.	30.34	1	29.70	6	5.8	40	n.w.	16	84	46	56	60	228
Harrisburg, Pa.	30.44	1	29.64	6	6.7	25	w.	17	71	43	55	79	110
Norfolk, Va.	30.39	1	29.73	6	9.3	41	n.w.	28	72	50	62	87	78
Philadelphia, Pa.	30.44	1	29.64	15	12.0	43	sw.	22	66	46	56	74	43
Pittsburgh, Pa.	30.32	1	29.65	6	9.5	35	n.w.	26	74	59	57	68	88
Washington, D. C.	30.44	1	29.68	6	6.7	30	sw.	22	73	46	54	67	131

COMPARATIVE DATA FOR MAY

Year	FOR MARYLAND			FOR DELAWARE		
	Temperature		Precipitation	Temperature		Precipitation
	Mean	Highest	Average	Mean	Highest	Average
1895	61.7	101	20	61.7	98	37
1896	67.5	96	31	67.3	96	35
1897	61.1	88	27	62.2	85	40
1898	63.0	96	25	61.7	96	37
1899	63.6	96	31	63.2	96	38
1900	63.1	99	23	64.0	96	31
1901	61.3	95	25	61.2	86	38
1902	63.9	98	22	63.8	94	37
1903	64.0	95	24	64.1	95	31
1904	64.2	102	26	64.3	95	39
1905	64.7	97	25	64.4	92	35
1906	63.3	96	22	64.0	97	30
1907	58.1	91	23	58.1	87	32
1908	63.4	95	28	65.0	94	36
1909	62.2	98	22	63.4	93	34
1910	60.0	90	16	62.0	90	35
1911	67.6	100	19	67.2	96	33
1912	64.1	92	20	64.7	91	38
1913	62.6	94	16	63.8	93	32
1914	65.1	100	18	65.8	98	31
1915	60.7	90	25	62.3	83	37
1916	64.6	97	30	65.2	94	39
1917	57.3	93	27	56.9	92	34
1918	67.7	98	27	67.4	95	38
1919	62.8	97	31	63.9	91	38
1920	58.5	91	22	58.5	87	30
1921	61.3	93	27	61.7	90	38
1922	64.7	93	25	65.0	88	32
1923	61.1	94	23	61.8	91	32
1924	58.7	94	26	59.5	88	37
1925	58.8	100	25	59.9	100	32
1926	62.0	94	25	62.0	91	33
1927	61.7	95	28	61.6	88	38
1928	60.5	96	23	61.0	91	32
1929	62.0	96	26	62.6	93	35
1930	64.8	96	27	65.6	95	40
1931	62.2	95	23	62.8	92	37
1932	61.9	94	25	62.9	90	37
1933	64.8	94	34	66.2	93	37
1934	63.9	97	28	64.6	95	38
1935	59.4	92	28	60.0	87	37
1936	64.9	95	27	65.5	94	37
1937	63.1	95	27	63.9	92	32
Period	62.4	102	16	63.1	100	30

Climatological Data for May 1937

Table with columns: STATIONS, COUNTIES, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall), Number of days (With precip., Clear, Partly cloudy, Cloudy), Prevailing direction of wind, OBSERVERS.

The departures from normal temperatures are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period...

†Post addresses of these stations are as follows: Of Bell, Glendale; of Coleman, Worton; of Fallston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Mt. Savage Summit, Frostburg; of Picardy, Pavy; Paw, W. Va.; of Pleasant Hill, Owings Mills; of Sines, Oakland; *Custom House, Gay and Water Sts. **Weather Bureau Building, 24th and M Sts. †Also on other dates. ‡Northwest of Frostburg. §§Prettyboy Dam. §§§Municipal Building. §§§§Porter Reservoir.

(Continued from front page) long; Walkersville-Hansonville-Ceresville area in Frederick County; funnel shaped cloud observed; unroofed or otherwise damaged homes and barns. demolished number of barns and sheds, blew down a few silos, uprooted number of trees, twisted branches of trees, and broke off 3 power line poles; damage, \$10,000. 13th. -5:30 p.m., SW to NE; path 1 mile wide, 8 miles long; from 6 miles southwest of to 2 miles northeast of Westminster, funnel shaped cloud observed; unroofed or otherwise damaged houses and barns, demolished many barns, garages, sheds, chicken houses, wind towers, silos, and outbuildings; twisted a bridge; tore off tops of many shade trees; uprooted many oak, locust, ash and other heavy trees; blew down number of telephone and power line poles and a large number of choice fruit trees in orchards; property damage, \$100,000; loss of shade trees, \$20,000; of fruit trees, \$30,000; of crops, \$5,000. 22d. -5 p.m., SW to NE; path 200 to 1,000 yards wide, 1 mile long; Town Point, 7 miles southwest of Cambridge; funnel shaped cloud observed; demolished 8 small buildings on a farm, loss \$3,000; damaged home on farm, \$25; uprooted some trees; loss of crops, \$2,000. 20th. -4:20 p.m., NW to SE, thunder-hail, damage 2 miles wide, 7 miles long; central and east-central portions of Baltimore City; funnel shaped cloud observed; unroofed or otherwise damaged homes, unroofed 2 water towers, demolished shed, damaged autos, blew down 17 power line poles, twisted tops off trees in Clifton and Patterson Parks, and uprooted number of trees; property damage, \$50,000; falling trees damaged telephone cables and wires, \$3,500. 20th. -8:33 p.m., NW to SE; path 100 yards wide, 1 mile long; Olney, Montgomery County; unroofed or otherwise damaged homes, demolished or blew down small buildings, blew down telephone and power lines, and uprooted trees; damage, \$5,000.

Daily Precipitation for May 1937

Table with columns: Stations, Drainage basin, Day of month (1-31), Total. Lists precipitation data for various Maryland and Delaware locations.

Except as otherwise indicated, observations are generally made late in afternoon, near sunset, and precipitation recorded is for the 24 hours ending at time of observation.
***Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.
**Precipitation is for 24-hour period, midnight to midnight.
|||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.
\$Northwest of Frostburg. \$\$\$Prettyboy Dam. \$\$\$\$Municipal Building. \$\$\$\$\$Porter Reservoir. *Precipitation included in following measurement.

Daily Temperatures for May 1937

Table with columns: Stations, Day of month (1-31), Mean. Lists temperature data for various Delaware locations.

Daily Temperatures for May 1937-Continued

Table with columns for Stations, 31 days (1-31), and Mean. Rows list various Maryland and District of Columbia locations such as Aberdeen, Annapolis, Baltimore, etc., with their respective temperature readings.

§§ Instruments are read in morning; maximum temperature then read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Annapolis, Baltimore, Chestertown, Conowingo Dam, Dundalk, Sines, and Washington are from midnight to midnight; other stations, except Cheltenham and Cumberland, are for 24-hour period ending late in afternoon, near sunset. (WBO, Richmond, Va., 8-9-37-1,150)