

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU  
IN COOPERATION WITH MARYLAND STATE WEATHER SERVICE

# CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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## GENERAL SUMMARY

The year 1945 was the fifth consecutive moderately warm one. It was the second wettest year of record, the wettest year being 1937. The annual number of days with precipitation was the greatest of record. The annual snowfall averaged slightly below normal. The annual sunshine was normal.

January and December were cold; May, July, August, and October were cool; February and November were mild; April and September were warm; and March was very warm, the second warmest of record. June was cool in western and north-central Maryland and was warmer than normal in southern Maryland and on the Eastern Shore.

March and October were dry. Rainfall was slightly below normal in August. Precipitation averaged normal in January. Rainfall was slightly above normal in February, April, May, and June. July, September, November, and December were wet.

Annual precipitation was between 37 and 50 inches over the western half of the section, except between 50 and 57 inches in the Allegheny Mountain region; it was between 50 and 60 inches over the eastern half of the section, except between 42 and 50 inches in the northern and central portions of the Chesapeake Bay region. 46 inches in the District of Columbia, 44.3 inches at Ocean City, and slightly above 60 inches at Blackwater, Snow Hill, and Wilmington. The least annual amount was 37.13 inches at Luke; the greatest annual amount was 65.56 inches at Blackwater.

Annual snowfall was light over the southern and central portions of the section and was above normal over the northern third of the section. Totals ranged from 0.7 inch at Crisfield to 88.1 inches at Sines. Snowfall was heavy in January and December; was below normal in February; and was light in March, April, May, October, and November. Annual sunshine was normal. Sunshine was very deficient in July, August, September, November, and December; was deficient in January and February; was normal in April; was slightly above normal in May and June. October was sunny. March was very sunny.

The yields of wheat, rye, barley, and oats were poor to good; of early potatoes, good; of peas, good to heavy; of sweet potatoes, fair to good; of early and late hay, truck crops, gardens, and sweet corn, good; of field corn, good to excellent; of tomatoes, good, except poor in west-central counties of the Eastern Shore; of late potatoes, good, except mostly fair on the Eastern Shore; of strawberries, cherries, and tobacco, short; and of maple sugar and maple syrup, below normal.

In January the outstanding snowfall was on the 16th, with heavy falls (above 6 inches) over the northern border counties from eastern Allegany County eastward to and including Cecil County; the heaviest falls were 10 to 15 inches in Baltimore, Carroll, and Frederick Counties. The ground was snow-covered throughout the month in western Maryland and from the 7th to the 31st in northern-central Maryland and the northern third of the Eastern Shore.

There was considerable ice at the head of Chesapeake Bay and much floating ice southward thereof during the first half of February. A snowstorm on February 17th yielded falls of 0.5 inch to 3 inches over the southern portion and falls of 3 to 7 inches over the northern portion of the section. Disappearance of snow on the 22d over the northern portion of the section revealed grains and grasses green and in good condition.

March came in lamb-like, but departed lion-like. Monthly snowfall averaged 6% of normal, the least in March since 1927, and was confined to the Allegheny Mountain region. Farm operations and vegetation advanced several weeks ahead of normal. Peach, pear, cherry, and plum trees were in full and heavy bloom and apple trees were blooming during the third decade.

Freezing temperatures and killing frosts during the nights of April 5-6th and April 6-7th caused light to heavy damage to tree fruit and early strawberry blossoms. A severe thundergust from the northwest passed over southeastern Baltimore County in

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## CONDENSED SUMMARY OF CLIMATOLOGICAL DATA 1945

| 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 | Partly cloudy | Cloudy |                              |     |
| January   | 28.4        | -4.7                      | 62      | -16    | 3.30          | -0.05                     | 2.26                 | 9.3            | 10                                      | 11            | 7      | 13                           | nw. |
| February  | 35.1        | +1.8                      | 70      | -11    | 3.14          | +0.15                     | 2.70                 | 4.9            | 10                                      | 6             | 8      | 7                            | sw. |
| March     | 53.0        | +10.2                     | 91      | 17     | 1.80          | -1.83                     | 1.80                 | 0.3            | 10                                      | 16            | 8      | 7                            | nw. |
| April     | 56.2        | +3.9                      | 90      | 20     | 3.68          | +0.16                     | 2.38                 | T.             | 12                                      | 13            | 8      | 9                            | nw. |
| May       | 60.3        | +2.6                      | 95      | 21     | 4.41          | +0.91                     | 2.83                 | 0.1            | 13                                      | 14            | 10     | 7                            | nw. |
| June      | 71.5        | +6.6                      | 102     | 29     | 4.26          | +0.30                     | 3.35                 | 0.0            | 10                                      | 13            | 12     | 5                            | sw. |
| July      | 74.2        | -1.1                      | 101     | 36     | 9.93          | +5.55                     | 5.97                 | 0.0            | 16                                      | 8             | 11     | 12                           | s.  |
| August    | 72.5        | -1.0                      | 99      | 34     | 3.90          | -0.60                     | 6.53                 | 0.0            | 9                                       | 17            | 10     | 4                            | s.  |
| September | 70.6        | +2.9                      | 94      | 37     | 4.43          | +2.07                     | 3.31                 | 0.0            | 10                                      | 10            | 10     | 10                           | s.  |
| October   | 55.5        | -7.7                      | 85      | 23     | 1.59          | -1.47                     | 3.39                 | T.             | 7                                       | 19            | 6      | 6                            | nw. |
| November  | 47.7        | -2.4                      | 81      | 12     | 4.19          | +1.59                     | 2.45                 | 0.4            | 12                                      | 12            | 7      | 11                           | nw. |
| December  | 30.8        | -4.4                      | 62      | -5     | 6.11          | +1.92                     | 2.80                 | 10.6           | 13                                      | 10            | 5      | 16                           | nw. |

## KILLING FROSTS 1945

| Stations             | Last in Spring | First in Autumn | Stations                  | Last in Spring | First in Autumn |
|----------------------|----------------|-----------------|---------------------------|----------------|-----------------|
| <i>Maryland</i>      |                |                 | <i>Maryland (cont'd.)</i> |                |                 |
| Aberdeen             | Apr. 7         | Oct. 15         | Maryland Line             | May 2          | Oct. 4          |
| Annapolis            | Mar. 5         | Nov. 5          | Millington                | Apr. 7         | Oct. 4          |
| Baltimore            | Apr. 7         | Nov. 5          | Oakland                   | May 25         | Oct. 4          |
| Bell                 | May 2          | Oct. 4          | Ocean City                | Mar. 10        | Nov. 5          |
| Blackwater           | Apr. 7         | Oct. 16         | Oxford                    | May 5          | Nov. 21         |
| Charlotte Hall       | Apr. 7         | Oct. 15         | Picardy                   | Mar. 2         | Oct. 4          |
| Cheltenham           | May 2          | Oct. 15         | Prettyboy Dam             | Apr. 7         | Oct. 4          |
| Chestertown          | Apr. 7         | Oct. 4          | Ridgely                   | Apr. 7         | Oct. 4          |
| Chewsville           | May 2          | Oct. 4          | Rock Hall                 | Apr. 7         | Oct. 4          |
| Clear Spring         | May 2          | Oct. 4          | Salisbury                 | Apr. 7         | Oct. 28         |
| Coleman              | Apr. 7         | Nov. 5          | Sines                     | May 25         | Oct. 3          |
| College Park         | May 2          | Oct. 15         | Snow Hill                 | Apr. 7         | Oct. 15         |
| Conowingo Dam        | Apr. 23        | Oct. 4          | Solomons                  | Mar. 5         | Nov. 24         |
| Crisfield            | Mar. 5         | Nov. 21         | State Sanatorium          | Apr. 7         | Oct. 11         |
| Cumberland           | May 2          | Oct. 4          | Takoma Park               | Apr. 7         | Oct. 15         |
| Easton               | Apr. 7         | Oct. 4          | Tonoloway                 | May 2          | Oct. 4          |
| Elkton               | Apr. 7         | Oct. 4          | Towson                    | Apr. 7         | Oct. 15         |
| Emmitsburg           | Apr. 23        | Nov. 5          | Unionville                | May 2          | Oct. 4          |
| Fallston             | Apr. 7         | Oct. 4          | Western Port              | May 2          | Oct. 4          |
| Ferry Landing        | Apr. 7         | Oct. 15         | Westminster               | May 2          | Oct. 4          |
| Fort George G. Meade | Apr. 8         | Oct. 15         | Woodstock                 | May 2          | Oct. 4          |
| Frederick            | May 2          | Oct. 4          | Washington, D. C.         | Apr. 7         | Nov. 5          |
| Friendsville         | May 25         | Oct. 3          | <i>Delaware</i>           |                |                 |
| Frostburg            | May 25         | Oct. 4          | Bridgeville               | Apr. 8         | Oct. 4          |
| Germantown           | May 2          | Oct. 15         | Delaware City             | Apr. 23        | Oct. 4          |
| Great Falls          | May 2          | Oct. 15         | Dover                     | Apr. 7         | Oct. 4          |
| Huntingtown          | May 2          | Oct. 15         | Leves                     | Apr. 7         | Oct. 4          |
| Keedysville          | May 2          | Oct. 4          | Millsboro                 | Apr. 8         | Oct. 4          |
| La Plata             | May 2          | Oct. 15         | Newark                    | Apr. 23        | Oct. 4          |
| Laurel               | Apr. 7         | Oct. 4          | Wilmington                | Apr. 23        | Oct. 4          |

## COMPARATIVE DATA FOR THE YEAR

| Year | FOR MARYLAND |         |        |               |                  |                                  | FOR DELAWARE |         |        |               |                  |                                  |
|------|--------------|---------|--------|---------------|------------------|----------------------------------|--------------|---------|--------|---------------|------------------|----------------------------------|
|      | Temperature  |         |        | Precipitation |                  |                                  | Temperature  |         |        | Precipitation |                  |                                  |
|      | Mean         | Highest | Lowest | Average       | Average snowfall | No. of days with 0.1 in. or more | Mean         | Highest | Lowest | Average       | Average snowfall | No. of days with 0.1 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    | 41.78         | 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     | -17    | 46.19         | 19.3             | 99                               | 53.7         | 104     | 1      | 43.62         | 8.3              | 81                               |
| 1902 | 53.5         | 104     | -17    | 49.11         | 19.1             | 105                              | 54.7         | 104     | 6      | 49.58         | 24.6             | 99                               |
| 1903 | 53.2         | 100     | -12    | 46.75         | 14.4             | 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 | 53.6         | 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 | 56.3         | 102     | -6     | 35.97         | 40.4             | 95                               | 54.9         | 101     | 0      | 37.29         | 29.9             | 90                               |
| 1915 | 53.7         | 103     | -15    | 44.09         | 23.2             | 111                              | 55.7         | 101     | 16     | 42.99         | 17.7             | 98                               |
| 1916 | 53.1         | 101     | -11    | 40.89         | 29.6             | 112                              | 53.9         | 99      | -3     | 38.28         | 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     | -15    | 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         | 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     | 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             | 127                              | 54.5         | 99      | -7     | 54.40         | 40.7             | 124                              |
| 1936 | 53.6         | 109     | -20    | 43.81         | 32.2             | 116                              | 55.1         | 105     | -5     | 50.32         | 16.0             | 114                              |
| 1937 | 54.0         | 100     | -12    | 32.08         | 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     | 33.94         | 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         | 18.4             | 108                              |
| 1943 | 54.3         | 102     | -15    | 34.05         | 20.7             | 107                              | 55.1         | 100     | 0      | 38.43         | 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      |        |               |                  |                                  |

Climatological Data for the Year 1945

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 and Delaware stations.

† 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 Ferry Landing, Owings; of Great Falls, Bethesda; of Mt. Savage Summit, Frostburg; of Picardy, Paw Paw, W. Va.; of Pretty boy Dam, Parkton; of Sines, Oakland; of Tonoloway, Hancock. † 2 miles northwest of Frostburg. §§ Municipal Bldg. §§§ Porter Reservoir. \* Determined from surrounding stations.

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the afternoon of Thursday, April 26th. The gust was of gale force over southeastern Baltimore City where it unroofed 10 homes and caused other minor damage. At Glenn L. Martin's Airfield, Middle River, Md., the gust reached a peak of 92 miles per hour from the northwest; a PBM-Mariner was damaged severely and some other Navy planes were scratched, dented, and marred.

May was March-like and the coolest since 1935. Light snow fell in the Allegheny Mountain region on the 1st and at night of the 10-11th. Killing frosts and freezing temperatures of the 2d in western Maryland caused heavy damage to crops and tree fruits; the loss was estimated near \$1,000,000 in Washington County by Mr. J. A. Miller of Keedysville.

Freezing temperatures occurred on June 6th in the Allegheny Mountain region. A heat wave prevailed from June 14th to June 17th and from June 29th to July 1st. A hailstorm struck the District of Columbia and adjoining Fairfax County of Virginia about 5 p. m., E. S. T., June 21, moved southeastward across southern Prince Georges County, and overspread the northern and central portions of Calvert County between 6 p. m. and 7 p. m. The path was 20 miles wide and 40 miles long. The hail, the size of golf balls, was heaviest between Fairfax and Alexandria, Virginia, 14,000 window panes were smashed at Alexandria. At an airport south of Washington considerable damage was caused by hailstones to a number of surplus military airplanes on display. Disk-shaped hailstones, many nearly two inches in diameter, fell over a wide area in Arlington.

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Monthly and Annual Precipitation for the Year 1945 with Departures from the Normal

Table with columns for Stations, months (January-December), and Annual. Rows list various locations in Maryland, District of Columbia, and Delaware, with numerical values for precipitation and departure from normal.

Italics are interpolated.

\*Determined from surrounding stations.

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ton County, Virginia, and caused heavy damage to gardens. At Owings, Calvert County, Md., the hailstones were the size and shape of a hen egg, a baseball, or an orange. Much damage was done to gardens, tobacco beds, and residences; trees were shorn of their foliage; and many window panes were shattered. The hailstones were 2 and 1-2 inches in diameter at Ferry Landing, Md.; they broke window panes and damaged trees, tree fruits, and crops. Holes were made in roofs of many homes at Chesapeake Beach and North Beach, Md. The fall of such large hailstones in the northern and central portions of Calvert County was unprecedented.

July was the wettest such month over the eastern and central divisions since 1889.

The outstanding and damaging rain period was the 17-19th, which yielded 4 to 8 inches of rain over the eastern half of the section. The heavy rains of the second half of the month in the eastern and central divisions interrupted cutting and threshing grains, cutting hay, the harvesting of tree fruits and crops; beat down growing crops and grains; ruined hay in the fields; damaged growing crops; caused grains in shock to rot and sprout; and washed fields and roads badly. The money loss of crops was in excess of \$8,000,000.

Monthly rainfall in August ranged from 1 inch at La Plata to 10.67 inches at Wilmington. Monthly rainfall was well above normal in the northern border counties and

(Continued bottom next page)

Monthly and Annual Mean Temperatures for the Year 1945 with Departures from the Normal

Table with columns for Stations, months (January-December), and Annual. Each month has two sub-columns: Temperature and Departure. Rows list various stations in Maryland, District of Columbia, and Delaware.

\*Determined from surrounding stations.

(WBO, Philadelphia, Pa., -6-646-1,800)

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well below normal in central and southern counties. Exceptionally heavy rain of the 1st in the Wilmington area yielded 5 to 6.5 inches in less than 18 hours, the greatest on record for that locality.

September was the warmest such month since 1931. There were no heat waves, however. A tropical storm passed over the section on September 18th. It caused heavy rains and high to gale force northeast winds during the 17-18th. Many corn plants were blown down. Slight property damage occurred locally. The tide was very high, but not a flooding one, along the Atlantic Coast and in Chesapeake Bay and its estuaries.

October was a typical autumn month. The first general killing frost of autumn occurred on the 4th over the northern border counties and the interior of the Eastern Shore; on the 15th over Montgomery, Howard, Prince Georges, and western Anne Arundel Counties; and on the 16th over the southern third of the section.

In November rain was frequent during the second decade. Thanksgiving Day, November 22d, was a mild sunny day, preceded by rain during the night of 21st-22d. The third decade was cool.

December was the coldest and the snowiest such month since 1935, and the wettest such month since 1936. Christmas day was mild and wet, with heavy rains, except light to moderate rain and light snow in the Allegheny Mountain region; roads were icy in the forenoon. On the 19th moderate snow fell over western Maryland and heavy snow fell over central and eastern divisions of the section, except light snow fell in Somerset and Worcester Counties. Ice formed during the cold period of the 11-24th on ponds, lakes, and streams, at the headwaters of rivers, on the estuaries of Chesapeake Bay, and in the upper Chesapeake Bay, but disappeared by the close of the month. The disappearance of the snow cover near the end of the month revealed grains and grasses green and in good condition.