U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

IN COOPERATION WITH MARYLAND STATE WEATHER SERVICE

CLIMATOLOGICAL

MARYLAND AND DELAWARE SECTION

J. BILY, Jr.

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Vol. XLIX Baltimore, Md., Year 1945

15

No. 13

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.

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. Show Hill, and Wilmington. The least annual amount was 57.13 inches at Luke; the greatest annual amount was 55.56 inches at Blackwater.

Annual snowfall was light over the southern and central portions of the section and

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.

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

(Continued at bottom of page 50)

CONDENSED SUMMARY OF CLIMATOLOGICAL DATA 1945

	т	empera	ture			Precipit	ation		Numb	direction .		
Months	Мевп	Departure from the normal	Highest		Average	Departure from the normal	Greatest in 24 hours	Snowfall	With 0.01 inch or more of precipitation	Clear Partly cloudy	Cloudy	Prevailing directly of wind
January. February March April May June July Angust. September October. November December	56.2 60.3 71.5 74.2	$ \begin{vmatrix} -4.7 \\ +1.8 \\ +10.2 \\ +3.9 \\ -2.6 \\ +0.6 \\ -1.1 \\ -1.0 \\ +2.9 \\ -0.7 \\ +2.4 \\ -4.4 \end{vmatrix} $	62 70 91 90 95 102 101 99 94 85 81 62	-16 -11 17 20 21 29 36 34 37 23 12 - 5	3.14 1.80 3.68 4.41 4.26 9.93 3.90 5.43	$\begin{array}{c} -0.05 \\ +0.15 \\ -1.83 \\ +0.16 \\ +0.91 \\ +0.30 \\ +5.55 \\ -0.60 \\ +2.07 \\ -1.47 \\ +1.59 \\ +1.92 \end{array}$	2. 26 2.70 1.80 2.38 2.83 5.97 6.53 3.31 3.30 2.45 2.80	9.3 4.9 0.3 T. 0.1 0.0 0.0 0.0 T. 0.4 10.6	10 10 10 12 13 10 16 9 10 7 7 12 13	11	9 7 5 12 14 10 6 6 11	nw. sw. nw. nw. sw. s.

KILLING FROSTS 1945

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

COMPARATIVE DATA FOR THE YEAR

		FOR	MAR	FOR DELAWARE								
	Ter	nperat	ure	. Pre	cipita	tion	Ter	mpera	ture	Pre	cipita	tion
Year	Mean Highest Lowest Average		Average	Average	No. of days with .01 in. or more	Mean	Mean Highest		Average	Average snowfall	No. of days with .01 in. or more	
1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1911. 1913. 1914. 1916. 1917. 1918. 1919. 1920. 1992. 1922. 1924. 1925. 1926. 1927. 1928. 1928. 1928. 1931. 1933. 1933. 1933. 1938. 1939. 1931. 1938. 1939. 1931. 1938. 1938. 1938. 1938. 1938. 1938. 1938. 1938. 1938. 1938. 1938. 1938. 1938. 1938. 1940. 1941. 1942.	54.0 55.5 54.8 4 55.0 56.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5	102 100 102 109 102 104 107 108 108 108 109 100 100 100 100 100 100 100 100 100	-18 -13 -12 -20 -26 -15 -17 -12 -20 -20 -20 -15 -5 -17 -12 -20 -16 -30 -15 -11 -32 -30 -16 -15 -11 -18 -20 -8 -8 -17 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10	34. 67 36. 49 56 44 40. 62 52 48 43 67 67 44 48 12 68 13 67 67 67 67 67 67 67 67 67 67 67 67 67	$\begin{array}{c} 25.2\\ 24.8\\ 24.8\\ 24.8\\ 24.8\\ 24.8\\ 25.2\\ 24.8\\ 25.2\\$	91 90 90 108 109 98 88 89 91 105 106 106 106 106 106 107 117 118 112 112 118 117 116 118 117 116 118 118 117 116 118 118 117 116 118 118 117 116 118 118 117 116 118 118 117 116 118 118 117 116 118 118 117 116 118 118 117 116 118 118 117 116 118 118 118 117 116 118 118 118 118 118 118 118 118 118	58.8 55.0 6 55.7 7 56.4 7 56.4 6 56.7 56.4 6 56.7 56.4 6 56.7 56.4 6 56.7 56.4 6 56.7 56.4 6 56.5 6 6 6 6	101 103 977 99 100 104 104 104 100 105 105 100 100 100 100 100 100 100	-4 0 3 3 0 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	37. 13 40.98 144.11 142.19 38. 145.80	19.9 13.1 5 10.7 7 121.3 22.5 5 22.5 3 24.6 6 3 17.7 7 15.1 3 17.7 7 15.3 1 27.7 7 15.3 1 27.7 7 11.3 25.5 5 3 17.7 5 15.3 1 25.5 5 3 15.5 6 2 15.5 8 15.5 6 2 15.5 8 15.5 6 2 15.5 8 15.5 6 2 15.5 8 15.5 6 2 15.5 8 15.5 6 2 15.5 8 15.5 6 2 15.5 8 15.5 6 2 15.5 8 15.5 6 2 15.5 6 15.5	95 96 1111 108 96 83 81 199 97 96 102 112 110 105 107 81 107 81 107 81 108 107 81 108 107 108 110 110 110 110 110 110 110 110 110

Climatologica	al Data	for the	Year 1	945

	Climatological Data for the Year 1945 Temperature, degrees Fahrenheit Precipitation													·	. Class					
				empe	rature.	, degrees	Fahre	nheit				cipitati	on			iny		Sky	·	g
Stations	Counties	Elevation, feet	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 rain days	Number of clear days	Number of partly cloudy days	Number of cloudy days	Prevailing direction of wind
Maryland															1.					
Aberdeen Anuapolis Baltimore (U.S.W. B.) Bells Nellimore (U.S.W. B.) Bells Nellimore (U.S.W. B.) Beltsville Blackwater Charlotte Hall Cheltenham Chestertown Chewsville Clear Spring College Park Conowingo Dam Crisfield Cumberland Dundalk Easton Edgemont Elkton Edgemont Elkton Emmitsburg Fallston Ferry Landing S. Fort George G. Meade Frederick Frederick (Airport) Friendsville Frostburg Germantown Great Falls S. Hancock Huntingtown Keedysville La Plata Laurel Luke Maryland Line Millington Mt. Savage Summit St Oakland Ocean City Oxford Perry Point Picardy S. Prettyboy Dam S. Ridgely Rock Hall Salisbury Sines (Deep Creek) S. Snow Hill Solomons State Sanatorium Takoma Park No. 1 Takoma Park No. 2 Tonoloway S. Towson Trappe Unionville Western Port Western	Kent. WashingtondoKent Prince Georges Harford Somerset Allegany Baltimore Talbot. Washington Cecil Frederick Harford Calvert Anne Arundel Frederickdo Garrett Allegany Montgomery Montgomery Washington Calvert Washington Calvert Calvert Washington Charles Prince Georges Allegany Baltimore Kent Garrett Wiscomico Garrett Wiscomico Garrett Wicomico Garrett Wicomico Garrett Wicomico Garrett Wicomico Garrett Frederick Montgomerydo Washington Baltimore Caroline Kent Frederick Montgomerydo Washington Baltimore Talbot Frederick Allegany Carroll Go Mashington Baltimore Go Mashi	420 190 950 840 427 2, 852 2, 120 10 40 10 20 20 21 1, 460 20 20 20 1, 460 475 475 415 415 415 416 416 416 416 416 416 416 416 416 416	27	53. 9 56. 1 57. 4 56. 5 57. 4 56. 5 56. 1 56. 6 56. 2 56. 6 56. 2 56. 6 56. 2 56. 4 56. 6 56. 2 56. 6 56. 2 56. 6 56. 2 56. 6 56. 2 56. 6 56. 2 56. 6 56. 7 56. 6 56. 6 56. 7 56. 6 56. 7 56. 6 56. 8 56. 6 56. 8 56. 9 56. 6 56. 9 56. 9 56	986 989 989 989 989 989 989 989 989 989	June 30 June 3	-166 11	Jan. 25 Jan. 27 Jan. 26 Jan. 28 Jan. 28 Jan. 28 Jan. 28 Jan. 28 Jan. 28 Jan. 26 Jan. 27 Jan. 26 Jan. 27 Jan. 27 Jan. 25 Jan. 27 Jan. 25 Jan. 25 Jan. 27 Jan. 25 Jan. 2	772 755 55 54 440 487 74 485 59 10 26 675 55 76 29 4 474 45 57 76 29 4 474 45 57 366 10 0 42 431 15 15 55 52 440 437 7 12 234 43 3 652 36 7 7 5 55 59 58 1 43 35 2 34 35 2 34 35 2 34	43. 92 41. 56 46. 61 52. 49 56. 68 53. 25 56. 68 53. 25 51. 65 50. 93 51. 83 54. 80 50. 65 52. 68 53. 76 43. 25 50. 62 53. 26 53. 26 55. 41 55. 41 55. 41 55. 41 55. 41 55. 41 55. 41 55. 41 55. 41 55. 51 55. 51	5.72 11. 84 12.66 15.30 19.56 17.00 19.77 19.68 19.76 19.77 19.00 19.77 19.00 19.77 19.00 19.77 19.00 19.77 19.00 19.77 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00	Julyy Sept Julyy Julyy Sept Julyy Ju	0. 84 1. 12 1. 10 0. 84 1. 12 1. 10 0. 84 1. 12 1. 13 1. 13 1. 13 1. 13 1. 13 1. 13 1. 13 1. 13 1. 14 1. 15 1. 15 1. 16 1. 17 1. 17 1. 18	Mar. Oct. Mar. Mar. Oct. Mar. Mar. Oct. Mar. Mar. Oct. Oct. Oct. Oct. Oct. Oct. Oct. Oct	28.6 4 6.1 128.5 11.2 24.6 18.9 125.7 224.0 224.0 226.	119 139 139 144 141	121 131 131 131 131 131 131 131 131 131	110 110 110 110 110 110 110 110 110 110	184 182 182 182 182 182 182 182 182 182 182	S. S. S. N. N. S. S. N. S. N. S. S. S. S. N. S. S. S. S. N. S. S. S. N. S. S. S. N. S. S. S. N. S. N. S. N. S. N. S. S. N. N. S. N. N. S. N. S. N. N. S. N.
trict of Columbia For Delaware For entire section		 		55. 2 54. 6	102	June 30 June 30† June 30	-16 -16	Jan. 27 Jan. 25 Jan. 27		54, 74 54, 74 50, 74	11.46	July July July	0.72 0.39	Mar. Oct.	20. 0 22. 2 25. 6	139 132 132	184 182	77 102	104 111	nw. nw. nw.

[†] 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 Bidg. 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 hallstorm struck the District of Columbia and adjoining Fairfax County of Virginia about 5 p.m., E. S.T., June 24, 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. Diskshaped hailstones, many nearly two inches in diameter, fell over a wide area in Arling-

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		Mon	thly	and.	Ann	ual P	reci	pitati	pitation for the Year 1945 with Departures from the Normal											•						
	Jai	iuary	Feb	ruary	M	arch	A	pril	M	lay	J	une	J	uly	Au	gust	Sept	ember	Oct	ober	Nov	ember	ber Decem		Anr	ual
Stations	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Maryland	ĺ		ĺ																							
Maryland Aberdeen Annapolis Baltimore (U.S.W.B.) Bell Bell Blackwater Blackwater Charlotte Hall Cheltenham Chewsville Clear Spring Coleman College Park Conowingo Dam crisfield Cumberland Dundalk Easton Edgemont Elkton Emmitsburg Fallston Ferry Landing Fort George G Meade Frederick (Airport) Friendsville Frostburg Germantown Great Falls Hancock Huntingtown Keedysville La Plata Laurel Luke	4. 26 3.18	+0.27 -0.26	3.60 2.79	+0.59 -0.13	0.45	-1.02 -2.84 -2.91	3. 13 2. 78	-1.08 -0.95	3.17 3.90 4.43	+0.19 +0.91	7. 95 4. 00	+3.73 +0.20	14.05 13.28	+9.72 +9.05	1.00	-3.56 -2.95	5. 70 4. 58	+2. 13 +1. 11	1.85 1.27	-1.11 -1.69	3.90 4.41	+1.95 +1.11 +1.85	6. 30 •6. 20	+3.60 +3.02	56.09 49.31	$^{+0.35}_{+12.95}$ $^{+7.25}$
Luke Maryland Line Millington Mt. Savage Summit Oakland Ocean City Oxford Perry Point Picardy Prettyboy Dam Ridgely Rock Hall Salisbury Sines (Deep Creek) Snow Hill Solomons State Sanatorium Fakoma Park No. 1 Fakoma Park No. 2 Fonoloway Fowson Trappe Unionville Western Port Western Port Wiltondale Westminster Wiltondale Newark (University Farm Newark (University Farm Wilm'n (Porter Reservoir For Maryland and Dis-	4. 4.4 4. 3.6 1. 3.8 2. 3.8 3. 7.7 2. 8.8 4. 0.2 3. 3. 5.6 2. 3.1 3. 2. 3.1 3. 3. 2. 3.1 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3	+0, 25	2. 99 3. 188 2. 66 2. 94 4. 783 2. 82 2. 55 3. 13 2. 82 2. 55 3. 13 3. 00 2. 90 2. 90 2. 90 3. 10 3. 10 3. 40 3. 10 3. 40 3. 10 3. 40 3. 10 3. 11 3. 12 3. 12 3. 12 3. 12 3. 13 3. 13 3. 13 3. 13 3. 13 3. 13 3. 13 3. 13 3. 13	+0.20 +0.10 +0.92 +1.35 -0.11 +0.45 +0.45 +0.07 -0.10 +1.41 +2.12 +0.07 -0.30 -0.02 -0.18 +0.09	2.49 2.43 4 78 1.18 1.42 2.06 2.01 1.13 1.1.13 1.0.98 2.04 2.10 1.13 1.5 77 2.27 *1.22 2.10 0.84 1.89 1.74 0.74 2.10 1.74 2.10 1.74 2.10 0.84 2.10 1.74 2.10 0.84 2.10 1.74 2.10 0.84 2.10 1.74 2.10 0.84 2.10 1.74 2.10 0.84 2.10 1.74 2.10 0.84 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10	-1.26 -1.44 -1.04 -1.04 -1.04 -1.04 -1.04 -1.05 -1.16 -1.06 -1.06 -1.07 -1.08 -1.08 -1.09 -1.18 -1.09 -1.19 -1.19 -1.19 -1.19 -1.19 -1.19 -1.19 -1.19 -1.19 -1.19 -1.11 -1.11	4. 49 3. 3. 33 3. 3. 3. 3. 4. 4. 6. 4. 13 3. 3. 5. 5. 5. 4. 4. 6. 6. 2. 4. 4. 6. 2. 4. 4. 6. 2. 4. 4. 6. 2. 4. 4. 6. 2. 4. 4. 6. 5. 2. 4. 6. 3. 4. 6. 2. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 3. 4. 6. 6. 3. 6. 6. 6. 3. 6. 6. 6. 6. 3. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	+0.48 -0.70 -0.15 -0.15 -0.70 -0.87 -0.87 -0.87 -0.87 -0.87 -0.88	4.04 4.44 4.55.19 9.37 5.12 5.37 6.09 9.37 4.64 6.38 8.39 7.4.73 3.53 6.40 10.4.60 8.3.68 8.3.97 4.73 8.3.16 6.38 8.3.97 8.4.73 8.3.16	+0.59 +0.59 +0.02 +0.02 +0.02 +0.03 +0.02 +0.03 +0.03 +0.03 +0.03 +0.06 +0.03 +0.06 +1.13 +0.06 +1.13 +0.06 +1.13 +0.06 +1.13 +0.06 +1.13 +1.29 +0.05 +1.29 +0.05 +1.29	4.495.5.59.8.122.5.6.5.25.5.67.7.7.6.5.87.7.8.1.6.5.27.7.6.5.8.3.9.8.1.6.2.2.6.3.3.44.3.4.2.2.6.3.3.1.6.2.2.6.3.3.44.3.4.2.9.6.5.3.4.4.2.9.6.5.3.4.4.2.9.2.9	+0.57 +1.50 -0.49 +1.50 -0.49 +1.07	11. 28 9. 37 6. 30 6. 30 113. 86 8. 29 9. 81 12. 122 12. 09 9. 81 12. 122 12. 123 12. 124 13. 90 12. 133 14. 04 14. 04 14. 04 14. 04 14. 04 14. 04 14. 04 14. 04 16. 06 17. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	+7 27 +4 .76 +1.80 +1.63 +4.50 +4.50 +7.94 +7.51 +7.94 +7.58 +7.94 +7.58 +1.88 +5.58 +1.88 +5.58 +1.88 +6.45 +13.04 +10.91 +5.50 +10.91 +5.28 +5.19 +4.12 +6.74 +6	5.785 2.964 4.111 1.55 481 1.5	$\begin{array}{c} +1.15, \\ -2.12, \\ -2.12, \\ -0.04, \\ +1.14, \\ -1.14$	5. 36 5. 7. 28 9. 36 1. 3. 83 8. 83 5. 85 5. 89 5. 89 6. 29 6. 29 6. 29 6. 29 6. 29 7. 4. 63 8. 5. 11 6. 21 6. 2	+3. 07 +1. 91 +4. 24 +6. 17 +8. 05 +1. 76 +2. 73 -0. 04 +0. 55 +4. 50 +1. 62 +2. 42 +1. 36 +4. 44 +1. 26 +5. 89 +1. 01 +1. 00 +1. 32	1.68 1.66 1.99 1.99 2.37 1.20 2.07 1.45 1.62 2.00 2.37 1.55 1.55 1.55 1.55 1.55 1.55 1.55 1.5	-2.38 -1.35 -2.16 -2.241 -1.135 -2.241 -1.16 -0.21 -1.16 -0.21 -1.16 -0.21 -1.16 -0.21 -1.16 -0.21 -1.38 -0.22 -2.57 -1.28 -1.38 -1.	3. 85 5. 58 2. 56 3. 460 4. 4.38 2. 2.37 3. 748 4. 4.95 5. 203 4. 4.95 5. 203 6. 4.95 6. 4.95	+0.74 +0.38 +2.81 	4. 94 - 5. 45 - 5. 61 - 6. 005 - 6. 88 - 12 - 2. 64 - 5. 98 - 8. 12 - 2. 54 - 5. 98 - 8. 12 - 2. 55 - 47. 2. 55 - 5. 47. 2. 55 - 5. 47. 2. 55 - 5. 47. 2. 55 - 5. 47. 2. 55 - 5. 6. 01 - 7. 50 - 9. 83 - 4. 65 - 5. 61 - 7. 50 - 9. 83 - 4. 65 - 4. 04 - 4. 04 - 4. 04 - 4. 04	+1.98 +1.99 -1.53 -1.53 -1.53 -1.53 -1.53 -1.53 -1.53 -1.12 -1	55. 80	+18. 23 +7. 18 +7. 18 +7. 18 +7. 18 +7. 18 +7. 18 +7. 18 +7. 19 +

Italics are interpolated.

*Determined from surrounding stations.

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Month the hallstones 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 shatered. The hallstones 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 hallstones 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 theshing 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 and the state of the section of the sect

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

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		Mon	thly	and .	Ann	ual M	[ean	Tem	perat	ures	for t	the Year 1945 with Departures from the Norma						rmal								
	Janu	ary	Febr	uary	Ma	arch	A	pril	M	[ay	Ju	ne	Ju	ly	Au	gust	Sept	ember	Oct	ober	Nove	ember	Dece	mber A1		ıua <i>l</i>
Stations	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	25.0	-6.7	33 6	-0.1	51.9	±0.9	55 6	+4.5	50.7	-2.4	72.0	∔ 0.5	74.6	-1.1	79.9	~1.7	70.4	+2 4	54.5	-14	46.8	+1.6	29.8	-5.5	53.9	0.0
Aberdeen Annapolis Baltimore (U.S.W.B.) Bell Baltimore (U.S.W.B.) Bell Beltsville Blackwater Charlotte Hall Cheltenham Chestertown Chewsville Clear Spring Coleman College Park Conowingo Dam Crisfield Cumberland Dundalk Easton Elkton Emmitsburg Fallston Ferry Landing Fort George G. Meade Frederick (Airport) Friendsville Frostburg Germantown Great Falls Huntingtown Keedysville La Plata Laurel Maryland Line Millington Mt. Savage Summit Ookland Ocean City Oxford	26.5 28.6 29.2 28.6 26.7 27.0 27.0 27.0 28.9 29.2 29.3 29.2 29.3 29.2 29.3 29.3 29	-4.73.43.23.23.23.23.23.23.23.24.75.24.24.24.24.25.26.26.27.44.26.27.44.27.46.2.	37.2 2 38.6 6 36.5 36.2 6 36.5 6 37.2 2 38.6 6 3 36.2 6 3 36.2 6 3 36.4 4 32.0 6 32.0 6 37.2 2 38.6 6 3 37.2 2 3 3 3 3 6 6 3 3 3 6 6 3 3 6 6 3 3 6 6 3 3 6 6 3 7 6 0 3 8 6 7 6 3 6 6 3 7 6 0 3 8 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	+2.5 +3.2 +1.3 	52.4 56.1 57.5 58.8 58.8 56.1 55.8 8 56.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4	+9.1 1 18.4 +10.1 1	55. 2 4 5 5 5 6 6 6 5 5 7 7 6 4 9 9 5 6 6 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6	+4.48 +5.00 +5.09 +5.59 +5.51 +4.88 +4.88 +4.89 +3.93 +4.19 +4.81	60.9 59.2 61.7 61.8 60.2 60.3 61.6 60.2 60.3 61.6 60.3 61.6 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60	-2.7 -2.8 -3.6 -2.5 -3.6 -2.2 -3.6 -3.6 -3.6 -3.6 -3.6 -3.6 -3.6 -3.6	70.44 70.32 71.77 73.22 69.32 74.44 72.22 74.44 71.77 72.8 71.77 72.8 66.04 71.77 72.9 66.04 71.77 72.9 65.6	+2.8 +0.8 +0.9 +0.8 +0.9 +0.8 +0.9 +0.8 +0.8 +0.8 +0.8 +0.8 +0.8 +0.8 +0.8	75.8 9 74.9 74.2 8 74.4 4 76.4 4 76.4 6 77.0 1 74.4 6 77.0 1 76.8 8 75.0 1 76.8 8 75.2 7 74.8 7 75.6 0 76.8 8 76.6 7 76.8 8 76.7 7 76.8 8 76.8 7 76.0 7 76.8 8	-1.1 (-1.6 (-1.3 (-1.5 (74. 4 72.8 72.2 73.0 72.6 70.6 70.6 70.6 75.2 77.7 77.4 72.5 73.8 72.4 72.2 74.0 72.6 73.8 72.4 72.2 74.0 72.6 73.8 72.4 72.5 73.8 72.4 73.8 74.0 74.0 74.0 75.0 76.0 76.0 76.0 76.0 76.0 76.0 76.0 76	+0.6 -0.7 -2.1 +1.0 +0.1 +0.5 -0.8 -2.4	72. 0 72. 3 70. 6 72. 3 70. 4 72. 0 70. 4 72. 0 70. 4 68. 0 72. 4 68. 0 72. 4 68. 0 72. 2 68. 0 72. 0 72. 0 72. 0 73. 1 69. 6 72. 0 69. 8 72. 0 72. 0	+4.2 +2.4 +4.3 +2.4 +4.3 +2.0 +4.2 +4.2 +4.3 +2.4 +4.3 +2.4 +4.3 +2.4 +4.3 +2.4 +4.3 +2.4 +2.5 +3.2 +2.5 +3.2 +2.5 +3.3 +2.5 +3.3 +3.3 +3.3 +3.3 +3.3 +3.3 +3.3 +3	54.5.2.7.5.5.4.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5	-0.6 6 -0.9 +1.0 -1.3 -0.8 +4.0 +1.0 -1.2 -1.1 -0.4 -0.3 -1.7 -1.6 -0.3 -1.7	49. 6 48. 46. 9 48. 48. 48. 48. 48. 48. 48. 48. 48. 48.	+3.7 +4.1 +2.1 +2.1 +2.0 +2.9 +2.9 +2.0 +2.9 +2.0 +2.9 +2.0 +2.9 +2.0 +2.1 +2.0 +2.1 +2.0 +2.1 +2.0 +2.1 +2.0 +2.1 +2.0 +2.1 +2.0 +2.0 +2.0 +2.0 +2.0 +2.0 +2.0 +2.0	32. 8 30. 2 31. 2 32. 5 30. 8 31. 2 28. 0 32. 0 32. 0 32. 0 30. 2 29. 6 32. 0 30. 2 29. 4 32. 0 30. 2 29. 4 32. 0 30. 2 29. 4 30. 0 30. 2 30. 0 30. 0	-5.438.99	56. 1 55. 4 55. 2 54. 4 56. 5 56. 5 56. 5 56. 4 56. 5 56. 2 56. 5 56. 2 56. 5 56. 4 56. 5 56. 6 56. 7 56. 7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Oxford. Picardy Prettyboy Dam. Ridgely. Rock Hall Salisbury Sines (Deep Creek) Snow Hill Solomons State Sanatorium Takoma Park No. 1. Takoma Park No. 2 Tonoloway Trappe Unionville. Western Port Westminster Wiltondale Woodstock. District of Columbia	25. 4 30. 3 29. 4 33. 7 22. 4 32. 4 33. 6 24. 1 30. 4 30. 9 25. 8 28. 2 26. 2 27. 6	-4.6 -6.6 -5.1 -3.2 -5.2 -6.7 -3.1 -5.5 -6.7 -3.5 -3.1 -5.2 -4.6	33.2 35.2 37.0 40.4 20.0 39.2 30.0 39.2 31.4 37.4 31.4 31.4 31.4 31.4 31.4 31.4 31.4 31.4 31.4 31.6	-0.6 +0.5 +2.9 +2.9 +2.6 +2.6 +2.6 +2.6 +1.3 +1.4 -1.5 -1.5 -1.5 -1.4	53. 4 52. 1 54. 4 52. 6 56. 2 57. 53. 4 53. 4 54. 2 50. 8 53. 4 54. 2 50. 8 53. 4 54. 2 56. 2 57. 5 58. 4 59. 6 59. 6 59. 6 50. 2 50. 8 51. 4 53. 4 54. 6 55. 2 56. 2 56. 2 56. 2 57. 58. 4 58. 4 5	+11.6 +11.4 +10.5 +8.7 +10.8 +12.1 +8.6 +10.4 +12.0 +12.8 +12.8 +11.8 +10.6	55. 3 54. 2 57. 4 58. 4 50. 8 57. 8 57. 8 54. 2 58. 0 57. 2 54. 0 55. 0 55. 0 55. 7	+4.2 +3.6 +4.4 +6.0 +5.6 +5.3 +5.3 +5.3 +5.3 +5.3 +5.3 +5.3 +5.5 +3.5 +3	59. 7 58. 6 61. 6 62. 4 63. 5 52. 7 61. 5 64. 0 58. 2 60. 4 58. 0 61. 2 58. 4 59. 4 60. 6 60. 0	-2.7 -4.2 -1.9 -0.7 -0.5 -3.4 -1.3 -1.0 -3.4 -1.2 -3.3 -3.0 -3.2	68. 8 69. 8 73. 0 73. 6 74. 8 63. 7 74. 0 74. 9 69. 5 71. 4 68. 5 73. 6 69. 9 70. 6 71. 4 70. 6	+0.9 +2.3 -0.7 +2.3 +1.4 -0.3 +1.6 -1.3 -1.1 -0.1	72.6 72.4 75.4 76.2 77.2 67.4 76.1 77.2 71.8 73.6 72.8 73.6 74.0	-1.6 -2.1 -1.0 -0.8 +0.5 -0.1 +0.2 -0.9 -2.2 -0.5 -1.6 -1.3	71. 2 71. 0 73. 0 73. 6 65. 2 74. 0 76. 7 70. 6 73. 4 72. 0 70. 8 73. 9 71. 2 70. 9 71. 2 71. 6	-1. 0 -2.0 -1.5 -1.7 -0.2 -0.3 -0.6 -0.4 -1.2 -0.1 -1.2 -1.2 -1.2	68. 1 68. 6 71. 7 72. 6 74. 6 62. 0 73. 0 75. 2 67. 2 68. 0 71. 6 69. 6 69. 6 69. 8	+3.0 +3.2 +5.2 +5.2 +4.1 +3.6 +1.4 +4.0 +2.2 +1.6 +2.2	54. 0 54. 0 55. 8 55. 8 47. 4 56. 5 60. 4 52. 6 54. 6 52. 9 56. 6 52. 9 56. 4 52. 9 55. 4 55. 8	-1.0 -0.9 -2.3 0.00 -1.6 +0.2 -2.5 +0.1 -0.7 -0.9 -0.4	45. 6 45. 1 49. 4 49. 2 52. 4 89. 6 49. 4 52. 4 44. 8 48. 6 47. 6 48. 8 48. 0 45. 5 46. 6 45. 5	+0. 9 +3. 0 +2. 2 +4. 7 +1. 5 +1. 4 +3. 5 +1. 4 +3. 0 +0. 5 -1. 0 +1. 9	29 0 28.6 31.2 31.1 34.3 24.2 33.8 34.7 27.4 28.3 30.4 28.5 28.7 29.2 30.4 29.4	-5.05 -5.59 -5.99 -5.75 -5.75 -5.33 -5.45 -5.25 -5.25 -5.1	58. 2 52. 7 55. 9 58. 3 47. 7 56. 8 58. 6 52. 0 56. 2 55. 1 55. 7 52. 1 55. 7 52. 7 52. 7 53. 7 54. 4 53. 7	+0.1 -0.3 +0.7 +0.5 +1.9 +0.6 +0.8 +1.5 -0.3 +1.9 -0.4 +0.2 +0.4
Washington (U.S. W.B.) Delaware	30.8	-2.6	88.4	+3.0	26, 2	+13.6	59.5	+6.2	62.8	-0.9	74.5	+2.3	76.8	0.0	75. 4	+0.4	73.2	+5.1	57.4	0.0	49.0	+3.8	33.0	-3.6	57.2	+2.2
Bridgeville	30. 6 28. 0 30. 4 31. 2 25. 9 26. 1	-4.9 -5.1 -4.9 -5.9 -6.9	36.8 34.7 36.8 37.0 37.5 33.0 33.4	+1.4 +0.7 +1.8 +1.3 +1.1 +0.7	53. 7 *52. 5 54. 4 53. 4 51. 4 51. 6	+9.6 +10.8 +11.3 +10.0 +10.9 +9.4	56. 2 *56. 0 57. 0 55. 5 56. 0 55. 1 55. 4	+3.3 +4.0 +4.1 +3.3 +4.4 +3.3	60.1 *60.7 61.8 61.4 61.1 59.6 60.2	-8.1 -2.5 -1.7 -1.9 -2.2 -2.8	72. 4 72. 6 73. 2 72. 6 73. 0 71. 0 71. 0	+1.0 +0.6 +0.8 +1.4 +1.5 -0.4	75. 2 76.0 75.7 75.2 74. 7 78. 6 74. 2	-0.8 -0.6 -1.0 -1.6 -1.3 -2.0	73. 0 73. 2 78. 6 72. 4 73. 3 71. 2 71. 6	-1.3 -1.7 -1.1 -1.1 -1.2 -2.5	72.2 72.2 72.7 71.7 73.6 69.5 70.2	+3.7 +3.6 +4.1 +4.7 +3.5 +2.2	56. 4 56. 3 57. 3 57. 1 57. 6 52. 8 54. 7	-0.8 -1.2 +0.1 -0.1 -2.3 -1.9	50.7	+3.7 +4.6	31.71	-5.3	55. 2 56. 3	+0.3 +0.5 +1.1 +0.9 +0.8 -0.4
For Maryland and District of Columbia For Delaware For entire section	28. 4 28. 7 28. 4	-4. 8 -5. 9 -4. 7	35. 1 35. 6 35. 1	+1.9 +1.2 +1.8	53. 0 53. 1 53. 0	+10.3 +9.5 +10.2	56.2 55.9 56.2	+4.0 +3.2 +3.9	60.2 60.7 60.3	-2.6 -2.6 -2.6	71. 3 72. 4 71. 5	+0.5 +0.8 +0.6	74, 1 74, 9 74, 2	1] '				ĺ						+0.7 +0.2 +0.6

(Continued from preceding page)

*Determined from surrounding stations.

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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 coccurred 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.

(WBO, Philadelphia, Pa., -6-6-46-1,300)

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 ley in the forencon. 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.