CLIMATOLOGICA

MARYLAND AND DELAWARE SECTION

J. R. WEEKS

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Vol. XLIV BALTIMORE, MD., YEAR 1940 No. 13

GENERAL SUMMARY

January was very wintry; snowfall was heavy over the southern half of the section on the 8th, in Garrett and western Allegany Counties on the 17th, and over an area 20 to 25 miles wide northward of a line from the southern limit of the District of Columbia northeastward to northward of Dover, Del., but exceptionally heavy southward thereof, on the 24th; or Dover, but exceptionary heavy southward thereof, on the 2401; the Upper Chesapeake Bay was frozen over throughout the month and the Lower Chesapeake Bay was filled with ice or frozen over during the third decade. February 4-13th was mild; on the 14th snowfall was heavy in the Allegheny Mountain region, over the remainder of the section moderate to heavy rain was followed by light snow; ice disappeared by the 15th from the Lower Chesapeake Bay and by the 20th from the Upper Chesapeake Bay. March 2d and 10-16th were cold; the 21st-26th was very cold.

peake Bay. March 2d and 10-16th were cold; the 21st-26th was very cold. In April the first decade was mild, the second and third decades were cold; the 12th-21st was a wet period. May 6-8th and 13-15th were warm; frost of the 12th damaged early vegetable plants in Allegany and Washington Counties; on the 27th heavy hail 3 miles south of Trappe and at Cambridge, Salisbury, Fruitland, and Deal Island damaged crops slightly and a waterspout damaged some property at Wenona, Deal Island. The flist half of June was warm, the second half was cool; heavy frosts of the 21st and 22d in the highlands of Garrett County damaged crops slightly. July 19th-31st was very warm; on the the 22d in Grantsville district some damage was caused by lightning, a wind gust, and heavy rain; a mild tornado on the 23d from northeast of Rockville southward to near Bethesda unroofed several homes and uprooted many trees; on the 28th heavy hail at Ridgely damaged 25 per cent of the tomato crop within an area I mile wide and 5 miles long; lightning on the 31st destroyed a barn and the contents near Catonsville. The third decade of August was cold and wet. Heavy rain on August 25 at Cumberland collapsed a street concrete wall Heavy rains on August 31 in Frederick County overflooded swollen streams; 2 bridges, a trestle, and many fishing cabins were washed away, highways were undermined at many points, and a youth, some cattle, 4 hogs, much poultry, and 10 colts were drowned; damage to merchandise in stores and warehouses in Frederick was \$75,000 to \$100,000. Heavy rain at night of August 31 near Smyrna, Del., overflooded Lake Como; 2 bridges and parts

Adgust 31 near Sinyrna, Del., overnooded Lake Como; 2 bringes and parts of a railroad bed were washed away and a telephone lineman was drowned. There were many clear, sunshiny, pleasant days in September; the 21st was summerlike; a severe northwest gust on the 25th demolished a barn near Snow Hill, 2 negroes and 2 mules were injured and 3 mules were killed; frosts and freezing temperatures of the 25-28th damaged corn and froze other crops in Garrett County and caused some crop damage in Allegany and Washington Counties. October 16-22d was very cold; the first general snowfall of the season occurred on the 19th, it was the earliest freezyl to eastward of the Allegheny Mountains. Temperature alterof record to eastward of the Allegheny Mountains. Temperature alternations were frequent in November; the 11-15th was a wet period, with heavy rain. In December the weather was mostly mild, except cold during the 2d-6th and warm during the 20th-31st. [Continued on page 52]

CONDENSED SUMMARY OF CLIMATOLOGICAL DATA 1940

	Т	empera	ture			Precipit	ation		Numb	erc	f da	ys S	
Months	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	Prevailing direction	pu
January February March April May June July August. September October November December	22: 4 34: 2 38: 2 48: 1 62: 0 71: 8 75: 0 71: 4 64: 5 53: 2 45: 6 40: 3	-10,8 +1.0 -4.5 -4.0 -0.7 +1.1 -0.2 -2.1 -3.1 -8.0 +0.4 +4.9	59-66 75-84 93-96-103 97-95-86-77	-14 -4 1 13 23 33 37 38 25 20 14 -13	2.25 2.94 3.94 5.89 4.60 2.16 3.30 5.35 3.33 2.34 5.07 2.49	-1. 13 -0. 13 +0. 33 +2. 31 +1. 10 -1. 82 -1. 01 +0. 76 -0. 05 -0. 66 +2. 51 -0. 67	2.40 2.05 2.09 3.15 4.18 3.18 3.96 4.10 4.79 1.55 2.31 1.42	15. 7 8. 1 2. 2 1. 8 T. 0. 0 0. 0 0. 0 0. 0 2. 2 0. 9 1. 1	7 11 10 13 13 9 9 13 6 9 10	15 11 10 7 9 10 17 7 18 14 10	9 10 10 15 10 11 7 7	10 n 13 n 12 n 13 n 13 n 5 sv 13 n 5 n 10 n 11 n	W. W. W. e. V. e.

KILLING FROSTS 1940

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Stations	Last in Spring	First in Autumn	Stations	Last in Spring	First in Autumn
Maryland			Maryland (con,t.)		
Aberdeen:	Apr. 14	Oct. 19	Ocean City	Apr. 14	Oct. 21
Annapolis	Apr. 14	Oct. 21	-Oxford	Apr. 14	Nov. 19
Baltimore	Apr. 14	Oct. 21	Perryville		Oct. 19
Bell	Apr. 29	Oct. 19	Picardy	:Apr. 28	Sept. 26
Cambridge	Apr. 29	Oct. 19	Pleasant Hill	Apr. 25	Oct. 19
Charlotte Hall	Apr. 23	Oct. 19	Pocomoke City	Apr. 29	Oct. 19
Cheltenham	Apr. 25	Oct. 19	Poolesville	Apr. 15	Oct. 19
Chestertown	Apr. 23	Oct. 19	Prettyboy Dam		Oct. 19
Chewsville	May 12	Sept. 26	Princess Anne	Apr. 29	Oct. 19
Coleman	Apr. 45	Oct. 22	Ridgely	Apr. 23	Oct. 19
Coleman	Apr. 29	Oct. 19	Rock Hall	Apr. 28	Oct. 19
Conowingo Dam		Oct. 19	Salisbury	Apr. 29	Oct. 19
Crisfield	Apr. 13	Nov. 26	Silver Spring	Apr. 15	Oct. 19
Cumberland	Apr. 25	Sept. 27	Sines	May 12	Sept. 26
Cumberland Darlington	Apr. 29	Oct. 19	Snow Hill	Apr. 29	Oct. 19
Dundalk	Apr. 14	Oct. 19	Solomons	·Apr. ·14·	Nov. 19
Easton	Apr. 15	Oct. 19	State Sanatorium	Apr. 25	Oct. 19
Elkton Emmitsburg	Apr. 25	Oct. 19	Stevensville		Oct. 22
Emmitsburg	Apr. 15	Oct. 19	Takoma	Apr. 15	Oct. 19
Fallston	Apr. 23	Oct. 19	Tonoloway	May :12	Sept. 26
Ferry Landing	Apr. 23	Oct. 19	Towson	Apr. 25	Oct. 19
Frederick	Apr. 28	Oct. 19	Unionville	Apr. 28	Oct. 19
Friendevilla	May 19	Sept. 26	Western Port	May 12	Sept. 27
Frosthire	Anr 26	Sept. 26	Westminster	Apr. 25	Oct. 19
Georgetown	Apr. 15	Oct. 19	Woodstock	Apr. 29	Oct. 19
I Great Pans	ADr. 29	Oct. 19	Washington, D. C	Apr. 14	Oct. 21
Huntingtown	Apr. 28	Oct. 19	. Delaware		7.
Keedysville	May 12	Oct. 19	Bridgeville	Apr. 29	Oct. 19
La Plata		Oct. 19	Delaware Breakwater	Apr. 14	Nov. 19
Laurel	Apr. 15	Oct. 19	Delaware City	Apr. 15	Oct. 19
Leonardtown	Apr. 25	Oct. 19.	Dover	·Apr. 15	Oct. 19
Lutherville	Apr. 29	Oct. 19	Milford	Apr. 29	Oct. 19
Maryland Line	Apr. 23	Oct. 19	Millsboro		Oct. 19
Millington		Oct. 19	Newark	Apr. 25	Oct. 19
Mt. Savage Summit		Sept. 26	Odessa	Apr. 15	Oct. 19
Oakland		Sept. 26	Wilmington	Apr. 25	Oct. 19.
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COMPARATIVE DATA FOR THE YEAR

		EOB.	MADY	LAND			1		PAR Y	ELAW	ADE	
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	Ter	nperat	ure	Pre	cipita	tion	Ter	npera	ure	Pre	cipita	tion
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Year		es.	St	verage	, po es	10.05 10.05	1. 2	· sa	st	erage	20.60	72.5
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5.3	Mean	Highest	Lowest	· 🚊 -	Average	No. of d with .01 or mo	Me.	Highest	Lowest	٠,٨	Average	No. o with
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1895	52.6	102	$-18 \\ -13$	34.67	31.2	91	53.8	101	-4	37.13		95
1896	54.0 53.5	100 102	-13	36.69 44.55	25.2 19.6	108	55 0 54 6	103 97	0.0	40.99 46.81		96 111
1897 1898	54.8	102	-20	41.78	24.8	109	55.7	99	0	44.11		108
1899	53.4	102	-26	40.52	40.7	- 98	54.4	100	-14	42.19	42.5	96
1900	55.0	106	$-26 \\ -15$	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	1.1	43.62	8.3	81
1902	53.5	104	$-17 \\ -12$	49. 11	37.1	105	54.7	104	6	49.58	24.6	99 -
1903 1904	53.2 51.2	100	-20	46.75 36.36	18. 6 38. 8	106 96	54.2	99	$\begin{vmatrix} -1 \\ -10 \end{vmatrix}$	48.35 37.21	11.3 31.7	. 96
1905	53.3	104	$-\tilde{20}$	43.67	34.2	106	53.9	101	·	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 55. 0	100	3.	41.29	19.3 25.5	95 94
1909 1910	53.7 53.5	99	- 5 -15	36.73 36.92	30.7 35.9	101	54.9	96	-1	38. 52 39. 09	17.5	101
1911	54.9	106	- 5	43, 43	23.8	119	56.9	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 44.09	40.4 23.2	111	54. 9 55. 7	101	15	37. 29 42. 99	$\frac{29.9}{17.7}$	90
1915 1916	53, 1.	101	$-15 \\ -11$	40.89	29.6	1112	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		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	56.5	98 102	$-10 \\ -15$	44.12 38.06	21.3	115	54.1 57.4	100	1	50 · 41 · 35 · 02	$\frac{11.3}{17.2}$	112
1922	54.9	100	-15	39.97	35.9	112	55: 6	-96	i	41.52	$28.\tilde{2}$	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		111	53.5	100	1	48.53	12.5	108
1925	54.4.	104	-31	34. 86	$24.7 \\ 25.8$	114	56.0	102 ···102	-1 5	35. 38 46. 04	9.8 15.3	105 120
1926 1927	52.7 54.3	100	-16 - 5	43.61		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		. 94	56.2	110	-3	28.05	14.5	96
1931	55.9	103	- 8 - 6	38. 44		111	57.2	101	12	40.95	8.0	98
1932 1933	55.0	106	-10	46.93	19.6 20.4	122	56.6 56.3	100	-1	49.03 52.32	16.0 14.5	116
1934	53, 8	107	25	45.05		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	105	—5	50. 32	16.0	114
1937	54.0	100	-12 - 8	52.08 40.34	22.5 19.8	128 127	55.4 56.3	97 98	9.	50.58	8.8	129 129
1938	55.3 55.3	100	- 7	43.10	21.8	116	56.2	97	4	48.94 45.60	13.5 15.6	118
1940	52. 2	103	-14	43.69	32.0	120	52.7	102	-7	43.50	31.2	119
Period	53.8	109	-40	41.82		110	55.0	110	-15	44.00	18.5	108
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		T	'empe	rature	, degrees	Fahre	nheit			. Pre	cipitati	on		·	>		Sky		g
Stations Counties	Elevation, feet	Length of record,	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month	Total snowfall	Number of rainy days	Number of clear days	Number of partly cloudy days	Number of cloudy days	Prevailing direction of wind
Aberdeen Annapolis Anne Arundel Baltimore (U.S.W.B.) Bell S. Dorchester Charlotte Hall S. Marys Cheltenham Prince Georges Cambridge (near) Dorchester Charlotte Hall S. Marys Cheltenham Prince Georges Chestertown Kent College Park Prince Georges Conowingo Dam Harford Cristield Somerset Cumberland Allegany Darington Harford Dundalk Baltimore Easton Talbot Edgemont Washington Elkton Cecil Emmitsburg Frederick Georgetown Get Grantsville Garrett Great Falls Montgomery Hancock (City) Washington Calvert Keedysville Washington Calvert Keedysville Washington Charles Laurel Prince Georges St. Marys Luther ville Baltimore Maryland Line Mollington Kent Garrett George Condition of Calvert Chemiston Charles Laurel Prince Georges St. Marys Luther ville Baltimore Maryland Line Mollington Kent Garrett Cokland Cocan City Worcester Oxford Talbot Cecil Pricardy Montgomery Baltimore Process Anne Somerset Caroline Rock Hall Kent Salisbury Worcester Sines Deep Creek Sound Stevensville Montgomery Rather Spring Sines (Deep Creek) Garrett Worcester Stake Sanatorium Frederick Worcester Stake Sanatorium Frederick Worcester Caroline Keetham Montgomery Washington Baltimore Prolesville Montgomery Sines (Deep Creek) Garrett Worcester Caroline Keetham Montgomery Washington Baltimore Prederick Worcester Caroline Keetham Montgomery Washington Baltimore Frederick Worcester Caroline Keetham Montgomery Washington Baltimore Frederick Western Port Allegany Westminster Washington Baltimore Prolesware Breakwater Delaware Breakwater		51 258 50 6 6 50 6 6 50 6 6 50 6 6 50 6 6 50 6 6 6 50 6 6 6 6	52. 4 54. 2 55. 1 56. 1 57. 2 58. 2 58. 3 58. 3 58	99 101 100 100 100 99 100 100 99 99 100 100	July 26 July 27 July 28 July 27 July 27 July 27 July 28 July 27 July 28 July 29 July 29 July 20 July 27 July 28 July 28 July 29 July 29 July 20 July 20 July 20 July 21 July 28 July 28 July 28 July 29 July 20 July 20 July 20 July 21 July 28 July 28 July 28 July 27 July 28 July 28 July 27 July 28 July 28 July 27 July 28 July 28 July 29 July 20 July 20 July 20 July 20 July 20 July 21 July 22 July 22 July 28 July 28 July 29 July 20 July 21 July 22 July 22 July 24 July 25 July 26 July 27 July 28 July 28 July 28 July 29 July 20 July 21 July 22 July 22 July 24 July 25 July 26 July 27 July 28 July	2 8 8 8 8 8 3 4 4 2 1 1 7 7 4 6 0 0 11 0 1 1 0 1 6 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	Jan. 20	85 443 54 55 52 14 771 24 47 52 25 16 6 6 8 72 6 6 6 8 72 6 6 6 6 72 6 71 71 71 71 72 72 72 72 72 72 72 72 72 72 72 72 72	38. 88 37. 41 44. 37 44. 37 44. 37 44. 18 46. 99 45. 68 49. 19 45. 68 48. 41 40. 28 48. 41 40. 42 40. 40 40. 40 40. 40 40. 40 40. 40 40. 40 40. 40 40. 40 40. 40	6.14 6.10 6.10 6.10 6.10 6.10 6.10 6.10 6.10	Apr. Apr. Aug. Aug. Aug. Aug. Aug. Aug. Aug. Aug	1. 22 1. 49 1. 32 1. 40 1. 50 1. 41 1. 68 1. 46 1. 40 1.	Jan. June Sept. June June June June June June Jan. Sept. June Jan. June Jan. June Jan. June June Jan. June June June June June June June June	20. 5 28. 3 38. 0 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	124 124 124 124 124 124 124 124 124 124	944 988 103 117 1177 123 128 133 128 135 120 116 149 152 118 199 174 145 163 147 128 141 128 141 128 141 128 141 128 141 143 153 167 166 119 199 152 161 163 177 165 161 172 164 166 167 172 165 168 167 172 164 168 167 172 166 168 168	115 132 131 109 116 118 121 121 121 121 121 121 121 121 121	157 136 164 128 109 110 127 133 162 126 127 136 162 127 136 162 127 136 162 127 136 162 127 136 141 112 121 122 126 137 141 141 142 143 144 144 154 164 164 164 164 164 164 164 164 164 16	nw.
For Maryland and Dis- trict of Columbia. For Delaware For entire section.			52.2 52.7 52.2	103 102 103	July 26 July 27* July 26	-14 -7 -14	Jan. 19 Jan. 30 Jan. 19		43.69 43.50 43.66	8. 94 8. 61 8. 94	May Aug. May	0.29 1.00 0.29	June July June	32.0 31.2 32.0	120 119 120	135 161 138	110 88 107	121 117 121	nw. nw. nw.

Monthly and Annual Precipitation for the Year 1940 with Departures from the Normal January February March April May June July August September October November December Annual																										
to the state of the	Jar	nuary	Feb	ruary	Mı	arch	Å	pril	N	lay	Ju	me	Jı	uly	Au	gust	Sept	ember	Oct	ober	November		December		Annua	
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	
Maryland erdeen	1. 22	-1.89	2.03	,	. 3.52	١	6, 83	+3.48	3.62		1.60	-1.87	2.25	J	5. 97	+1.02	1.47	-1.99	2.25	-0.43	5.14		2,98	-0. 13	38. 88	-
Maryland erdeen napolis litimore (U.S.W.B.) li	2.72 1.81	~0.83 ~1.69	2. 21 3. 97	-1.02	3.43 3.97	$-0.36 \\ +0.26$	5. 14 6. 99	+1.44 $+3.65$	4. 93 4. 41	+1.39 +0.87	1.49 2.37	-2.83 -1.51	3. 19 2. 85	-1.34 -1.79	3.68 5.60	$-1.28 \\ +1.23 \\ -1.23$	1.93 1.32	-1.58 -2.05	1.96 2.37	-1.18 -0.52	4. 47 5. 99	+1.90 $+3.43$	2. 26 2. 68	-1.28 -0.69	37.41 44.33	+
mbridge (near)	2: 50 4: 16 9: 71	+0.57	2.57	-0.08 -0.62	3.95 4.05 3.66	+0.04	6.32 6.13	+1.63 +0.66	9. 50 4. 02 2. 60	+2.42 $+0.68$	1.07	-3.73 -2.81	4. 57 2. 03 4. 69	-2.21	7, 55	+2.41	4.42	+1.39	2.26	-0.74 -0.39 -0.63	4.50 5.05	+1.89	1.99	-1.21 -1.39 -0.26	44. 17 43. 59 40. 96	
eitenham	4.02	+0.49 -1.10	3. 09 2. 83	+0.16	4. 18 4. 36	+0.43 +0.76	6.41	+2.57 $+4.03$	5.15 5.29	$+1.76 \\ +1.91$	0.52	-3.85 -2.43	5.35 5.24	+1.04 +0.40	3. 75 3. 48	-0.94 -1.50	2.90 1.82	-0.34 -1.30	2.82	-0.05 -0.41	6. 15 4. 64	+3.63 $+1.98$	2.60	-0.68 -0.81	46. 94 43. 77	+
ewsvilleleman	0.92 1.72	-1.92 -1.63	2.40 3.01	+0.06 -0.02	4. 22 3. 99	+1.24 +0.48	4.35 6.45	+1.42 +3.01	5.72 4.94	+2.32 $+1.60$	3.10 4.95	-0.93 + 1.25	$\frac{2.68}{3.67}$	-1.24 -0.90	5. 73 4. 48	+2.10 -0.35	3.75 1.68	+0.67 -1.68	3.30 2.37	+0.42 -0.51	5.45 5.05	+3.40 +2.51	2.56 3.38	-0:06 -0:17	44.18 45.69	+++++++++++++++++++++++++++++++++++++++
nowingo Dam	2.04	-1.19	2.93	+0.12	3.57	+0.07	5.82 6.28	+2.40	4.01 3.85	+0.48	3.04	-3.71	3, 33	0.59	3, 51 8, 83	-0.90	3.65 4.07	+0.44	1.53	-1. 17	5.47	+3.07	2.55	-0.65	38, 72 46, 70	
mberland	1. 16	-1.52	2. 22	-0.12	3.48 4.95	+0.46	4.58	+1.40 +1.49 +2.43	3.84	+0.51	4, 20 4, 18	+0.08	2.55 1.77	-0.67 -0.53 -2.71	6.05 8.38	+2.25	3. 23 3. 25	+0.60 -0.27	1.57	-0.97	3. 79 6. 38	+3.03 $+1.84$ $+3.72$	2.52	-0.19	39. 19 49. 04	+
ndalkston	1. 76 3. 57	+0.48	3.42 2.79	-0.12	3.89 3.86	+0.20	6.49 5.04	+1.68	4. 29 4. 12	+1.05	$\frac{2.44}{0.85}$	-3.17	5. 49 1.85	-2.37	6.05 5.86	+1.15	1.33	+3.82	2.25 3.70	+0.42	5.39 4.75	+2.19	2.28 2.26	-0.90	45. 68 45. 62	4
rlington ndalk ston gemont tton initsburg llsburg stry landing derick endsville sstburg nrgstown nntsville	1. 25	-1.98	3.33 2.61	-0.65	4. 09 4. 86	+1, 13	4.96 6.93	+3.01	5.30 6.08	+2.53	$\frac{2.66}{1.65}$	-2.57	4.55 3.00	-1.00	4, 54 6, 36	+0. 14	5. 67 2. 43	-0.96	3.49 2.30	-1.01	6.14 4.56	+1.77	2.43 2.95	+0.10	48. 41 45; 24	+
imitsburg	1.65	-1.39 -1.92	2.26 2.16	+1.53 -0.85	3.54	+1.24 -0.04	7.59	+3.91	8.94 3.65	+5.02 $+0.36$	1.52	-3.16 -2.58	2.72	+3.76 -1.44	5.34	+4.11	4.95 3.67	+1.47 +0.02	2.21	$^{+0.04}_{-1.21}$	5.85	+2.52 +3.10	2.96	+0.26 -0.64	62. 13 42. 96	+
ederick	1. 46 3. 40	-1.77 -0:18	3. 73 4. 66	+0.81 $+1.81$	4. 53 5. 44	+1.05 $+1.33$	5. 69	+2.30 $+3.27$	4.89 *5.24	+1.45	1.48 4.97	-2.82	4.21 4.38	+0.18 +0.04	3. 66 4.59	-0.69	7. 20 3. 08	+4.15 +0.29	2. 96	-0.07 -0.96	5.46 4.06	+3.11 $+1.55$	2.92 2.82	-0.33 -0.83	48, 19 51, 40	
ostburgorgetown	1.79	-1.62	2.40 3.28	-0.38	3. 18 4. 73	-0.52	4.75 7.40	+0.97	$\frac{4.53}{5.92}$	+0.70	5. 89 1. 55	+1.07 +1.16	$\frac{2.43}{3.15}$	-1.38	8.63 5.60	+4.63	3.54 1.42	+0.54	$\frac{1.59}{2.36}$	-1.57	4.06 4.74	+1.68	2.02 2.98	-0.87	44. 81 44. 98	1
ntsvilleat Falls	1.74	i. 36	2. 22	0.34	3. 30	+0.09	5.73	+2.51	2 93	∸ 0.28	5. 61 0. 60	+1.16 -3.30	4.78 5.54	+0.75 $+1.60$	8: 40 3: 76	+4.13 -0.36	2.67	-0.61	2.32	-0.55	5.04	+2.93	2.17	-0.97	38. 02	-
at Falls neock (City)	$\frac{1.20}{3.70}$	-1.35	2.43	+0.15	3, 78	+0.46	5. 87	+1.07	3. 26	+0.08 +1.20	1. 79	+1.62	3.33	-1.05	4. 84	+2.32	2.74	-0.09	2. 44	-0.36 ∵∴:	4. 75	+2.79 +3.70	1.94	0.37	42, 33 41, 53	
Plata	3.72	+0.50	3,26	+0.64	3,54	+0, 18	8.08	+4.47	9.75	10.31	فو ۸۰	-9 15	9 81	_1 97	4 09	_0.86	4 60	11 44	9 06	-0.87	5 74	+3 38	2-53		41 16	
herville ryland Line	2.23 2.03	-1.39 -1.82	3:60 3.03	+0.33 -0.37	4, 22 3, 91	$+0.36 \\ +0.18$	7.65 7.34	+2.84 +3.99	5.05 4.13	+0.21 +1.63 +0.78 +3.15	2.75 2.18	-1.37 -1.96	1.87 2.09	-1.59 -2.89	5.13	+0.12 -0.02	4.50 6.34	+0.79 +2.90	2.55 2.32	-1.31 -0.70	6. 20 5. 29	$+3.20 \\ +2.51$	3.03 - 2.72 -	+0:15 -0:88	48, 78 46, 56	1.4
lingtonSavage Summitkland.	1.94 2.18	-1 61	2.66	+0.26	2, 84	-0. 14	5. 73 6. 02	+3. 18	5.35	+3.15	2. 67 4. 52 5. 80	-0.90	3. 15	-3.06	7.69	-0. 16	4.39	-0.82	1. 92 0. 77	-1.11	3.35	+1.67	2.03	-1.30	43. 26 44. 42	
an City	3. 18 2. 31		2.72 2.26		3. 82 3. 56	0.20	4.00 4.26	-3.01	3.04	+0.76	0.45	-1.02	5. 13 2. 32	0.01	4.79 6.96	2, 10	1.82		2.33 2.23	-1.72	6.25	T1.07	2: 10 1: 79	-1.40	39, 63 38, 30	
ryvine	1,40		Z. 10		a. 90		b. 02		4.97		2.03		1. 90		4.18		2.39		2. 73							٠.
asant Hill	1.50 3.11	-2.22 +0.07	3.54	+0.34 +0.52	3.92	$+0.36 \\ -0.03$	7. 31 5. 83	+3.95 +2.38	4.55 3.67	+1.12 +0.91	$\frac{1.50}{1.28}$	-2.52 -2.49	3. 26 5. 15	-1.28 + 1.34	5. 19 3. 50	+0.33 -0.77	3.10 1.45	-0.24 -1.86	2.18	-0.64 -0.41	5. 41 6. 44	+1.95 +4.09	3. 10 2. 26	-0.33 -1.22	44. 56 42. 74	1
gely k Hall isbury	3.09 2.25	+0.01 -1.11	3. 10 2. 57	+0.31	4. 16 4. 53	+0.67 $+0.91$	6.02	+2.70 $+3.45$	4. 99	+1.67	2.51	-1.28	3. 92	−0.45	5. 59	+0.67	5. 94	+2.82	2.10	-0.88	4.63	+2.03	2.06	-1.20	48.11	۱. ٦
sburyer Spring	$\frac{3.90}{1.62}$	+0.58	$2.90 \\ 2.94$	- 0. 33	4. 10 3. 31	+0.22	4. 20 5. 54	+0.96	5. 10 2. 74	+1.98	0.85 0.52	-2.87	$\frac{2.60}{2.97}$	-1.36	5. 24 3. 34	+0.01	1.90 3.51	-1.53	$\substack{2.05 \\ 2.25}$	-1. 15	4.90 5.64	+2.29	2.85 2.43	-0.57	40. 59 36.81	
es (Deep Creek)	1. 60 3. 15	-2.34 -0.05	3.56 3.50	+0.15 +0.22	3,99 3,80	+0.39	7. 49 5. 40	+2.99 +2.28	5.77	+1.43 $+1.67$	6. 43 1. 20	$\begin{array}{c} +1.73 \\ -2.01 \\ \end{array}$	2.07 5.60	-2.34 + 2.00	3. 91 5. 30	-0.04 -0.54	3.41	+0.40 -1.80	2, 20	-1.46 -0.94	4. 16 6. 70	+1.90 $+4.26$	2.96 - 2.20 -	-0.40 -1.55	47. 55 44. 29	1
te Sanatorium	3. 04 2. 75	-0.37	4.57 2.65	+1.71	5. 22 3. 79	+1.72	5. 88 7. 22	+2.36 $+2.79$	6.82 4.56	+0.29 $+2.66$ $+0.77$	2.85 1.45	-1.99 -1.97 -2.15	5.26 1.95	+1.24 -2.03	8.36	+4.00	$\frac{2.99}{2.52}$	-1.08	3, 77	+0.25	5. 18	+2.73	3.67	+0.51	57. 14	+
omaoloway	2.42 1.04	-1.06 -1.51	2.72 2.32	0.15 +0.04	2, 87 3, 18	$-0.66 \\ +0.08$	5.35 4.24	+1.94 +0.81	3.01 3.73	-0.19 +0.55	0. 44 6. 53	$-3.39 \\ +1.71$	3. 47 5. 76	-0.56 +2.46	4. 10 6. 02	-0.13 $+2.28$	$\frac{1.75}{2.73}$	-1.36 -0.10	2.26 1.78	-0.37 -1.38	5. 57 4. 75	$+3.31 \\ +2.79$	2.34 2.17	~1.08 ~0.54	36, 30 14, 25	 +
vsononville	2.36	-1.08	3.53	+0.63	*4.05	+0.59	7.09	+3.57	4. 19	+1.00	1. 76	-2.11	1.68 5.20	-2.65	5. 14 2. 93	+0.30	5.61	+2.46	2.68	-1.08	6. 13 5. 26	+3.44	2.92	-0.38	16.50	1
isbury rer Spring so (Deep Creek) we Hill browner so Sanatorium vensyille coma coloway vson conville stern Port trainster liamsport odstock District of Columbia	1.77	-1.66	4.55	+1.43	4. 03 4. 38	+0.53	7. 12 4 41	+3.80	3.82 4.70	+0.89	1.71	-2.47	3. 43 2. 74	-0.62	7. 27	+2.38	6.38	+0.84 $+2.68$	3.08	-0.03	5. 18	+2.93	2.03	-0.45	11. 98 51. 26 15. 08	. 4
odstock	1, 69	-1.56	2.80	+0.08	3. 67	+0.35	7.21	+3.89	4.40	+1.09	0.56	-3.42	2. 95	-1.25	3.25	-1.24	4.07	+0.88	2. 17	-0.70	5. 43	+2.98	3. 22	-0.01	11.42	1
										-0.60																
aware Breakwater	2.43	-1.00	2.32	-0.12	8.48 5.21	+0.42	4. 14 3. 78	+0.84	3.26	+2.25	1. 83	-2.20	4.03	-2.92	5. 02 3. 10	+0.38	1.35	+0.18	1.83	-1.65	3, 79	+1.87	1.73	-1.86	38. 54 33. 45	- ن ا
ver	2. 50 2. 82	-0.82 -0.90	2. 88 3. 59	~0.18 +0.30	3, 82 3, 48	-0.10 -0.75	6. 12	$+2.60 \\ +2.74$	6.05	$^{+2.60}_{+2.89}$	1. 18 2. 10	-2.46 -1.92	1. 68 2. 51	-2.79 -2.03	6.55	+1.89 -0.57	4. 47 3. 28	+1.01	1. 68 1. 82	-1.28 -1.45	4. 76 5. 10	$+2.15 \\ +2.35$	2. 41 2. 06	-1. 13 -1. 91	14. 10 13. 81	1
Delaware dgeville aware Breakwater aware City ver ford isboro wark (University Farm) wark (University Farm) wark (Pumping Station) assa mington m'n (Porter Reservoir) Maryland and Dis. Maryland and Dis.	3.68	+0.15	2. 99	-0.32	4.37	+0.31	5. 46	+1.84	6.06 6.03	$^{+2.83}_{+2.53}$	$\frac{1.51}{2.31}$	-2.27 -1.48	3.05 4.34	-1.48 -0.42	8. 61 6. 68	$+3.24 \\ +1.98$	$2.35 \\ 2.47$	-0.54 -1.15	2.08 2.82	-1.08 -0.15	5.58 4.56	+2.93 $+2.04$	2.54 2.89	-1.32 -0.73	18. 28	4
wark(Pumping Station)	1.64	-1.64	3. 45 2. 89	+0.26	6.15 4.77 6.90	+1.62 +2.60	5. 90 6. 74	+2.29	5.31 5.12	+2.84	1.31	-0.21 -2.70	1.00	-0.15	6. 81 3. 55	+2.11	3. 17 4. 75	-0.45	2. 84 · 2. 15 ·	-0.13	5. 12 4. 48	+2.60	2. 98 2. 32 2. 84	-0.64	11.01	+ :
mington m'n(Porter Reservoir) Maryland and Dis-	1.51	-1.97	2.87	-0.24	5. 64	+2.13	6. 47	+3.05	4.88	+1.64	2.04	-1.89	1.87	-3.17	5. 33	+0.44	2.99	-0. 55 -0. 55	2.67	-0.50	4. 58	+1.69	2.62	-1.06	13.47	
rict of Columbia	2. 26	-1.10	2.93	-0.10	3.84	+0.27	5. 92	+2.34	4.45	+0.95	2. 20	-1.79	3. 45	-0.81	5.29	+0.78	3, 35	-0.03 -0.29	2.35	-0.63	5.14	+2.60	2.51	-0.61	13. 69 13. 50	+

^{*}Determined from surrounding stations.

		Mon	thly	and	Annual Mean Temperatures						for t	he Y	ear 1	940	with	Dep	ertu	ree A	om t	ho II	[ermal					
	Jant	ary	Febr	uary	Ma	reh	A	pril	ж	ay	Ju	De l	Ju	ıly	Au	grapt	Septe	mber	Oct	oper	Nov	mber	Dece	mber	An	nual
Stations	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	T'emperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Doparture	Temperature	Departure	Temperature	Departure	Temperature	Departure
Maryland Aberdeen. Annapolis Baltimore (U.S. W. B.) Bell. Ambridge. (near) Charlotte Hall Cheltenham Chestertown Chewsville. Coleman. College Park Conowingo Dam Trisfield Cumberland Durlington Dundalk Easton. Elkton. Elkton. Ermitisburg Fallston Ferry Landing Frederick Friendsville Frostburg Georgetown Grantsville Grantsville Grantsville Grantsville La Plata Laurel Leonardtown Laurel Leonardtown Lutherville Maryland Line Millington Mt. Savage Summit Dakland Ocean City Drford Princess Anne Ridgely Rook Hall Salisbury Silver Spring Sines (Deep Creek) Drown State Sanatorium Stevensville Fakoma Conoloway Unionville Western Port Western Port Western Port Western Port Western Port Western Port Westerninster Woodstock	24. 92	-7:11110101010101010	9 35.4 5.6 1 3.6 8 6 1 3.0 8 6 1 3.0	+0.4 +2.6 +2.6 +2.6 +2.6 +2.6 +2.6 +2.6 +2.6	0 40.0 40.0 39.6 39.2 39.0 39.3 39.3 39.3 39.3 39.3 39.3 39.3	-4.0 -2.3 -4.1 -4.4 -3.5 -5.6 -5.7 -3.8 -5.3 -3.8 -5.0 -5.7 -3.6 -5.0 -4.8 -5.6 -5.4 -5.6 -6.3 -8.8 -4.9 -6.2 -6.3 -6.3 -6.3 -6.3 -6.3 -6.3 -6.3 -6.3	50. 2 46.0 1 2 47.0 3 48.0 3 46.0 6 47.0 48.0 3 46.0 6 47.0 6 48.0 3 46.0 6 47.0 6 48.0 3 47.0 49.0 6 6 47.0 6 48.0 3 48.0 6 6 47.0 6 48.0 8 48.0 8 48.0 49.0 49.0 49.0 49.0 49.0 48.0 48.0 47.0 6 40.0 49.0 49.0 49.0 49.0 49.0 49.0 49.0	-4.0 -3.4 -4.7 -4.0 -4.9 -4.7 -4.0 -4.0 -3.6 -3.0 -3.7 -3.8 -3.8 -3.8 -3.8 -3.8 -3.8 -3.8 -3.8	62.4406.522.44880.166.002.44880.885.511 .6222 .934.62.663.666.663.466.663.885.511 .6222 .934.62.664.653.666.663.666.663.666.663.885.666.663.885.666.663.885.666.663.666.663.666.666.666.666.666.66	-1.4 d. 0.0 d. 0	74.5077. 78.8377. 78.8378.22778.888.2288.70.59974.2778.888.2288.2288.2088.2288.2288.2288.	+2.12.2.2.4.1.5.4.1.6.4.4.1.5.4.1.6.4.4.1.5.4.1.6.4.4.1.6.3.4.1.6.4.4.1.6.3.4.1.6.4.4.1.6.3.4.1.6.4.4.1.6.3.4.1.6.4.4.1.6.3.4.1.6.4.4.4.1.6.4.4.4.1.6.4.4.4.1.6.4.4.4.4	76.5.008676.6676.66777776.688.8007777744.888.4000.302216.6674.87.7776.4493.2677744.888.4000.302216.6674.87.777.774.888.4000.302217776.6877.777.777.777.777.777.777.777.77	+1.6 -0.8 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1	73. 62 77. 28 77. 29 77	-2.0	68.0 66.1 2 66.4 8 66.7 1 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	-0.4466-6	54. 8 8 53. 9 54. 2 7 53. 6 6 54. 1 0 53. 6 51. 5 8 53. 6 6 52. 1 0 53. 6 6 52. 1 0 53. 6 6 52. 1 0 53. 6 6 52. 1 0 53. 6 6 52. 1 0 53. 6 6 52. 1 0 53. 6 6 52. 1 0 53. 6 6 52. 1 0 53. 6 6 52. 1 0 53. 6 6 52. 1 0 54. 1 0 55	-3.1 4.0 -2.1 5.1 -2.	48.5.5.7.0.2.8.8.2.4.6.6.0.2.8.8.2.4.6.6.2.8.8.2.4.6.6.2.8.8.2.4.6.6.2.8.8.2.4.6.6.2.4.6.6.2.8.8.2.4.6.6.2.4.6.6.2.4.6.6.2.4.6.6.2.4.6.6.2.4.6.6.2.4.6.6.2.4.6.6.2.4.6.6.2.4.6.6.2.4.6.8.2.4.4.6.8.6.2.4.6.8.0.7.3.5.8.0.7.3.5.8.0.7.3.6.6.0.0.4.4.6.8.3.5.4.5.6.7.4.2.2.4.2.6.7.4.2.2.4.2.4.4.8.8.3.5.4.5.6.7.4.2.2.4.2.6.7.4.2.6.7.6.2.4.2.6.2.4.2.4.2.8.3.5.4.5.6.7.4.2.2.4.2.4.2.8.3.3.4.6.6.2.4.2.2.4.4.8.8.3.5.4.5.6.7.4.2.2.4.2.2.4.4.8.8.4.3.3.7.4.8.8.3.2.4.2.2.4.2.2.4.2.4.3.8.3.2.4.3.3.2.2.4.3.3.2.3.2	+0.1 +0.1 +0.1 +0.1 +0.1 +0.1 +0.1 +0.1	42. 40. 22 42. 84. 41. 43. 42. 84. 44. 43. 44. 43. 44. 44. 44. 44. 44. 4	+5.4 5.8 2.8 5.0 8.6 8.5 5.7 4.8 8.4 6.6 0.5 0.6 6.5 0.6 5.3 8.4 4.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	54.1 552.4 4 552.5 6 56.7 7 56.7 7 56.7 1 56.1 1 56.7 7 7 56.7 7 7 56.7 7 7 56.7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	-122221122222112222222222
District of Columbia Vashington (U.S. W.B.) Delaware Bridgeville belaware Breakwater belaware City Dover difford dillsboro cwark ddessa Vilmington	22. 9 26. 5 23. 5 23. 2 22. 8 23. 8	-12.8 -9.7 -12.8 -13.6	34.8 35.2 7 34.2 35.0 35.2 1 35.8	+0.4 +0.4 -0.2 -0.8 +0.8	39.3 38.9 38.0 38.6 38.6 3 89.5 40.1	-4.8 -3.6 -4.4 -5.3 -4.2	48.4 46.7 48.0 48.4 48.6 49.0	-4.5 -4.1 -4.6 -5.0 -3.7	61.8 59.2 62.2 62.7 62.8 62.2	-1.4 -1.0 -0.8 -1.1 -0.8	72. 1 70. 5 71. 8 73. 4 73. 1 72. 7	+0.7 -0.2 +1.0 +1.0 +1.2	75. 6 73. 6 •76. 0 76. 6 76. 2 75. 6	-0.4 -0.6 0.0 -0.6 -0.8	72.2 72.4 72.5 73.4 73.1	-2.1 -2.3 -1.2 -1.9 -1.9	64. 8 68. 0 66. 1 66. 8 65. 8	-1.3 -3.8 -2.5 -1.8 -3.6 -3.6 -2.3	53. 0 55. 0 54. 4 54. 6 54. 2 53. 8	-4.2 -3.1 -2.6 -4.1	46.3 48.2 46.5 47.5 47.1	-0.3 +0.4 +1.4 -0.4 +0.2	41.6 42.6 40.4 41.8 42.1 42.5	+4.1 +4.3 +4.9 +4.1 +4.7	52. 7 53. 1 52. 8 53. 5 53. 4 53. 4	-2. -1. -1. -2. -2.
For Maryland and Dis- trict of Columbia For Delaware For entire section			1	l			l						i i					-3.1 -3.0 -3.1	- 1					. (ļ	

^{*}Determined from surrounding stations.

(WBO, Richmond, Va., 4-18-41-1,500)

(Continued from front page)

This year was the coldest since 1917 and the second coldest of record since 1891. January was severely cold, the second coldest of record; March, April, and October were cold; May, August, and September were cool; July was slightly cool; November was slightly mild; February was mild; June was moderately warm; and December was warm. Annual precipitation was above normal over the section, except below normal in the District of Columbia, in Montgomery, Howard, northern Prince Georges, northern Anne Arundel, and southern Harford Counties, and from Somerset County northward into eastern New Castle County. April and November were very wet; precipitation was above normal in March, May, and August and below normal in January, February, July, September, October, and December; June was very dry.

Annual snowfall averaged one and one-fourth times the normal. Snowfall in January

ary averaged twice the normal in Maryland and thrice the normal in Delaware; it was above normal in February and April, slightly below normal in November, one-half of normal in March, and light in December. The one snowfall in October averaged eleven times the normal.

Annual sunshine was 5 per cent below normal. Sunshine was deficient in February, March, April, May, June, August, and November; it was slightly below normal in October and December and above normal in January, July, and September. January, February, March, May, June, August, and November were windy. Barley, wheat, and rye yields were poor to good; oats yielded fair to good; corn, tomato, potato, pea, tobacco, hay, and tree fruit crops were good; the strawberry crop was good to excellent. —J. B., $\dot{\pi}$.