

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

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In Cooperation with Maryland State Weather Service

CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

Outstanding features during 1924 were: The tremendous property damage caused by wind and flood in March, by flood in May, and by wind and hail in June; the coolest and wettest spring of record; a greatly delayed planting and growing season, and a consequent shortage of crops; and an unusually long dry spell of 45 days from October 1 to November 14, inclusive. (See Summary by Months).

The year was cool, with a mean temperature of 52.6°, or 1.1° below normal, and was the coolest since 1917. March to July, inclusive, presented a strikingly persistent cool period, and September and October were also cool; for these seven months the mean temperature was 2.2° below normal. January, November, and December were mild. February and August averaged normal. Mean temperatures for the year ranged from 45.6° at Grantsville to 56.3° at Crisfield.

The year was also wet, with an average precipitation of 46.46 inches, or 4.60 inches above normal, and was the wettest since 1919; but the precipitation was unequally distributed through the year. The first 6-month period was extremely wet, with an average precipitation of 29.27 inches, or 8.27 inches above normal; this was the greatest amount of record for such a period since 1889. The second half, in marked contrast, was dry, with an average precipitation of 17.19 inches, or 3.67 inches below normal; the marked and persistent deficiency during this period was interrupted by unusually heavy rains on September 29-30. Annual amounts were slightly below 40 inches generally between the Allegheny and Blue Ridge Mountains and in extreme southern Maryland; elsewhere they were between 40 and 50 inches, except slightly above 50 inches in the Allegheny Mountain highlands, in northern north-central Maryland, in the interior of southern Prince Georges County, in extreme northern Newcastle County, and in the east-central portion of the Eastern Shore.

Annual snowfall averaged 30.5 inches, or 2.9 inches above normal. Snowfall was decidedly light in January and December and slightly above normal in November. It was heavy in February, March, and April, with an average of 27.0 inches (within 0.6 inch of the annual normal), or 0.6 inch more than twice the normal for this 3-month period. To the eastward of the Blue Ridge Mountains annual amounts increased from 4 inches at the Maryland-Virginia line on the Eastern Shore to 30 inches along the western boundary of the Coastal Plain, and to above 60 inches in the extreme northern Piedmont Plateau, with a maximum of 65 inches at Emmitsburg; in western Maryland they increased from 36 inches in extreme southeastern Washington County to 80 inches in the extreme northern Allegheny Mountain highlands.

The annual number of days with 0.01 inch or more of precipitation for the section averaged 111, or 5 above normal.

The annual amount of sunshine was about 60 per cent of the possible, or slightly above normal. January and October were exceptionally sunshiny. Sunshine was slightly above normal in March and April and abundant in July, August, and November. It was markedly deficient in May, June, September, and December.

The season of safe plant growth, or the interval between the last general killing frost in spring and the first general killing frost in autumn varied for the different portions of the section as follows: 129 days in western Maryland, except 99 to 105 days in the Allegheny Mountain highlands; in north-central Maryland, 129 days in the northern valleys to 183 days in the southern portion; 184 days in southern Maryland; on the Eastern Shore, 192 days in the interior to 203 days along the western and eastern shores; and 203 days in the Chesapeake Bay region.

Wheat, rye, and oats yielded fair to good. The hay crop was large. Early potatoes yielded poor to fair, but late potatoes and sweet potatoes fair to good. The tomato and corn crops were short. The tobacco crop was fair. Pears were abundant; peaches yielded fair to good, but apples only poor to fair.—*J. B., jr.*

SUMMARY BY MONTHS

January was characterized by mostly mild, unusually sunshiny, and much pleasant weather. Monthly sunshine, 15 per cent above normal, was the greatest of record in this month since January, 1899, which was just as sunshiny. Cold waves of the 5-6th, 21st-22d, and 26-28th produced lowest temperatures that ranged from -10° to 13°, from -7° to 11°, and from -5° to 14°, respectively, from the Allegheny Mountain highlands to the southern boundary on the Eastern Shore. Rainfall was abundant, while snowfall was very light. Monthly precipitation totaled between 2 and 3 inches in southern Maryland, between 3 and 4 inches generally on the Eastern Shore, and between 4 and 5 inches generally in north-central and western Maryland. Monthly snowfall was only a "trace" in southern Maryland and on the Eastern Shore, but ranged from 0.5 inch along the western boundary of the Coastal Plain to 8 inches in the Allegheny Mountain highlands. Snowfall of the 24-25th, 3 to 6 inches, in western Maryland remained on the ground to the close of the month. Wheat, rye, and cover crops were good to excellent, while pastures were fair. During the third decade, however, pastures turned brown in the entire section and winter grains turned brown in the northern half of the section. The cold waves enabled farmers to fill their ice houses and afforded some skating. For several days during the mild periods, following the cold waves, ice floes from the Susquehanna River interfered with shipping in upper Chesapeake Bay.

February was marked by much wintry weather—cold and windy with an abundance of snow. Cold waves overspread the Allegheny Mountain region on the 18th and western Maryland on the 24th and caused below-zero temperatures in those divisions. Lowest temperatures ranged from 13° below zero at Grantsville to 20° above zero at Solomons. Monthly mean temperature and monthly sunshine were normal. Monthly precipitation averaged slightly above normal, and ranged from between 2 and 3 inches over the southern third of the section to between 4 and 4.5 inches over the northeastern portion. Monthly snowfall averaged 10.7 inches, or nearly one and one-half times the normal. Monthly amounts ranged from 3 inches at the Maryland-Virginia line on the Eastern Shore to 27 inches in the Allegheny Mountain highlands. A "northeaster" on the 19-20th caused light snow, light sleet, and heavy rain over the southern half of the section, and heavy snow, light sleet, and heavy rain over the northern half. Wheat and rye (brown in color) were snow-covered on and after the 6th in the Allegheny Mountain region and on and after the 19th over the remainder of western Maryland and in north-central

Maryland. These grains turned brown during the first decade over the southern half of the section and continued brown to the close of the month. The cold spell of the third decade made ice on the smaller bodies of water. No ice interfered with shipping in Chesapeake Bay.

March was cold, wet, and windy. Monthly precipitation averaged one and one-half times the normal. Monthly snowfall averaged twice the normal. The Allegheny Mountain region remained snow-covered until the 29th. A "northeaster" on the 10-11th caused heavy snow in north-central and western Maryland, which attained depths between 10 and 15 inches in the northern Piedmont Plateau and in Allegany and Garrett Counties. Northeast gales during the night of the 10-11th crippled telephone, telegraph, and lighting systems badly by blowing down poles, and caused the worst damage of this character since the "northeaster" of March 4, 1909. Damage was widespread. Loss of poles and wires was estimated at nearly \$1,000,000. A "northeaster" on the 21st also caused heavy snowfall over north-central and western Maryland, with maximum depths of 15 to 20 inches in the northern Piedmont Plateau. Heavy rain during the night of the 28-29th caused streams in the Allegheny Mountain region, already swollen from melted snows and moderate rains, to overflow their banks, and resulted in the worst flood in history along the Potomac River in extreme western Maryland. A family of five was drowned at Kitzmiller. Most of the towns along the Potomac River west of Harpers Ferry and some towns in Garrett and western Allegany Counties sustained damage; the worst occurred at Cumberland. Total losses from the flood probably exceeded \$4,000,000. Grains and grasses turned green only in the eastern half of the section. Planting of peas, gardens, and early potatoes in southern counties during the second half of the month was interrupted by rains. Fruit trees remained dormant.

April was cool and wet; the coolest since 1911 and the wettest since 1918. Monthly precipitation averaged one and one-half times the normal. Monthly snowfall averaged 5.4 inches, or four times the normal. A "northeaster" on the 1st caused moderate to heavy snow, 3 to 10 inches, over the northern half of the section, and light snow, heavy sleet, and moderate rain over the southern half. The snowfall over the eastern portion of the section was accompanied by lightning and thunder—a rare phenomenon. Wheat, rye, and grasses showed green during the first decade over the western portion of the section. They made slow growth over the entire section owing to the persistent cool weather, but improved and were fair to good after the second decade. During the third decade oats were coming up in southern Maryland and on the Eastern Shore. Planting of peas, gardens, early potatoes, and truck continued in southern counties; these operations extended northward during the second decade and westward during the third. In southern counties early potatoes planted in March failed to come up, as a rule, but peas planted at the same time came up during the second decade and did well during the third. Peach, pear, plum, and cherry trees bloomed during the second and third decades, except in the Allegheny Mountain region where they were ready to bloom at the close of the month. During the closing week, which was sunshiny and favorable for drying out the soil for plowing and for general farming activities, apple trees were ready to bloom in southern and central counties, and strawberries were coming into bloom, except in western Maryland. The growing season was about two weeks behind normal throughout the month.

May was markedly cool and unusually wet. The mean temperature was 4° below normal, and but 1.6° above that of the coolest May (1917) of record. The average rainfall was one and four-fifths times the normal and the greatest of record in May since 1889. For coolness and wetness combined the spring of 1924 stands without parallel since the record began in 1871. A wet spell from the 8th to the 12th, marked by heavy rains, pro-

duced the second flood of the year along the Potomac River on the 12th. This flood was not as damaging along the upper Potomac as the flood of March 29, 1924, but it was the most destructive along the lower Potomac since 1889. Loss, exclusive of damage done to the Chesapeake and Ohio Canal, was estimated at \$1,000,000. Sunshiny weather during the closing week of April continued throughout the first seven days of May; this was the only prolonged favorable period of the season to date for drying out the soil, for plowing, for planting, and for general farming operations, and also improved grains, grasses, and crops that were up. The cool and wet weather that followed to the close of the month interfered seriously with farming activities, retarded plant growth, and caused considerable seed to rot. Except on lowlands, wheat and oats were fair to good and rye was good to excellent. During the third decade rye bloomed and wheat had headed, and strawberries were ripening in the southern and central counties, and rye had headed and wheat was heading in the northern counties, except in western Maryland. Grasses and pastures were good to excellent after the first decade. Less than one-half of the corn crop was planted; the early-planted came up during the third decade and some was a poor stand and yellow. Early potatoes came up slowly; they were fair to good, but late. In the southern and central counties peas bloomed during the last two decades. Truck crops and gardens were fair, but backward. Tomato and tobacco plants in beds did well; some tomato plants were set out. In the Allegheny Mountain region peach, pear, plum, and cherry trees bloomed during the month; elsewhere over the section these trees finished blooming generally during the first decade. Apple trees bloomed during the first two decades, except in western Maryland where they bloomed during the last two. Tree-fruit bloom was heavy. Tree fruit set well, except apples, which set fair to good, except poor to fair in the border counties from Baltimore to Garrett where pollination was hindered by the cool and wet weather. At the close of the month the planting and growing season was two to three weeks behind normal and dry, sunshiny, and warm weather was badly needed.

June was cool and wet, and was featured by severe local storms. During the first half of the month unseasonably cool and wet weather seriously interfered with planting of corn and other farming activities and greatly retarded plant growth. A 10-day warm wave followed, however, and conditions improved materially. There was considerable replanting of corn and truck crops. Corn planting was not finished. Wheat was fair to good and rye good to excellent, except on lowlands. Harvesting of these grains was well under way in the southern and central counties during the closing week. Oats grew nicely and were good generally; during the third decade they were heading or had headed, except in western Maryland. Pastures and grasses were good to excellent. Haymaking was general. Early potatoes, truck crops, and gardens were fair to good, but late. Early potatoes bloomed during the second half of the month, except in western Maryland. Picking of peas was in progress to the eastward of the Blue Ridge Mountains. During the third decade tomato plants showed most unfavorable effects of the wet weather. Tree-fruit prospects continued good generally, except poor to fair for apples in the northern counties westward of Harford. The strawberry season ended, except in western Maryland. On the afternoon of the 8th a violent windgust passed over the southern half of the section. In southern Maryland property was damaged, some shade and orchard trees were uprooted, poles were blown down, a large number of tobacco barns were demolished, and much of the stored tobacco was ruined by rain; damage estimated at \$650,000. Several people were drowned on the Potomac River and in northern Virginia as a result of this storm. Over the southern portion of the Eastern Shore property was damaged, frail buildings were blown down, and some shade and orchard trees were uprooted, but the damage was not as great as in southern Maryland. On the afternoon of the 25th a violent

windgust passed over northeastern Maryland and extreme northern Delaware. Many trees and many frail buildings were blown down and some crop damage resulted from Carroll County eastward. The windgust was most severe when it passed over Wilmington where about 250 buildings were damaged and about 400 trees were uprooted; the damage was estimated at \$1,000,000. On the afternoon of the 13th a heavy hailstorm caused crop damage estimated at \$61,000 and property damage estimated at \$37,000 over an area 8 miles long and varying from 1 to 6 miles wide, between the Severn and Magothy Rivers, in northeastern Anne Arundel County. Hailstones were 1 to 3 inches in diameter. The planting and growing season continued two to three weeks backward.

July was dry, sunny, and pleasant, in marked contrast to the wet conditions that prevailed during the first half of the year. It also was cool, as were the preceding four months. Average monthly rainfall was the least in July since 1909. Monthly sunshine was the greatest in July since 1913. Thunderstorms were not of the damaging type. All crops were in need of rain at the close of the month. Corn planting ended during the first week; a full crop was not planted owing to a wet May and June and the lateness of the season. Corn made good growth and was in fair to good condition. The early-planted was tasseling and silking during the third decade. Harvesting of wheat and rye ended during the first half of the month in the southern and central counties; these grains were harvested during the first two decades in the northern counties, except that harvesting of wheat began during the second decade and of rye during the third in the Allegheny Mountain region. Threshing gave fair to good yields. Harvesting of oats became general on the Eastern Shore during the second decade and in southern and north-central Maryland during the third. Pastures were good to excellent during the first half of the month, but deteriorated thereafter. Picking of peas ended during the first decade to the eastward of the Blue Ridge Mountains. In western Maryland strawberries were picked during the first two decades and peas during the last two. Digging of early potatoes began. Late potatoes were planted. Truck crops and gardens improved during the first three weeks. Early tomatoes were poor to fair on the Eastern Shore and fair to good west of Chesapeake Bay. A fine hay crop was secured. Picking of apples began. During the third decade picking of tomatoes, early peaches, and pears began in some southern localities, and buckwheat was blooming in the Allegheny Mountain region. The growing season continued about two weeks backward.

August was mostly dry, cool, sunny, and pleasant—typical of early fall. Thunderstorms were not attended by damaging gusts. Persistent coolness of the summer was interrupted by the warm waves of the 5-11th and 26th-31st. Maximum temperatures were close to 100° on the 6th, 7th, 9th, and 31st, except near 90° in the Allegheny Mountain region. Unseasonably cool periods of the 14-16th and 18-19th produced minimum temperatures but slightly above freezing in the Allegheny Mountain region. Monthly rainfall was greatest over the central portion of the section with amounts between 5 and 7.4 inches; and was least between the Blue Ridge and Allegheny Mountains with amounts between 1 and 2.5 inches. Crops and pastures were unfavorably affected by the hot, dry spell of the first decade. General rain on the 12th, however, effectively broke the summer drought and prevented heavy losses. Warm, sunny weather that followed the heavy rains of the 25th and 26th (except in western Maryland) caused crops and pastures to improve. Corn was fair to good generally. Early corn eared and filled out fairly well; the late corn tasseled during the third decade. On the Eastern Shore and in southern Maryland threshing of wheat and rye and harvesting of oats ended during the first week and threshing of oats during the second decade. In north-central Maryland and in Washington and Allegany Counties harvesting of oats ended during the second week; and

threshing of wheat, rye, and oats during the closing week. In the Allegheny Mountain region harvesting of wheat and rye ended during the second week and threshing during the closing week; harvesting of oats was in progress during the third decade. Yield of grain was fair to good. Pastures and grasses were but poor to fair, except mostly good in the Allegheny Mountain region. Digging of early potatoes ended during the closing week; the yield was only poor to fair owing to the dry weather during July. Late potatoes were fair to good and came into bloom during the third decade. Truck crops and gardens were fair generally. Tomatoes improved to good during the closing week. Tobacco was fair and bloomed during the first and second decades. Harvesting of tomatoes, apples, peaches, and pears was general. Haymaking ended. The growing season continued about two weeks backward.

September was decidedly cool with a mean temperature 4° below normal. It was the second coolest September of record. There was much cloudiness. The monthly sunshine, 15 per cent below normal, was the least in September since 1913. Rainfall was deficient until the close of the month when a "southeaster" produced heavy rains on the 29-30th, which raised the monthly amounts to greatly in excess of normal. Average rainfall for the month was the next greatest of record in September. Maximum temperatures on the 1st were between 90° and 100°, except slightly below 90° in the Allegheny Mountain region. Cool weather persisted from the 3d to the close of the month. The first freezing temperatures and killing frosts of the season occurred on the 7th in the Allegheny Mountain region and on the 11th over the remainder of western Maryland; corn, tomatoes, late potatoes, buckwheat, and truck crops were damaged somewhat. The maximum rainfall during the storm of the 29-30th was between 5 and 6 inches over an area about 30 miles wide, extending from the District of Columbia and northern Prince Georges County north-northwestward to the Pennsylvania line. The rainfall decreased in amount on both sides of the area mentioned to slightly less than 2 inches in the Allegheny Mountain region at the extreme west and the Atlantic coast of Delaware at the extreme east. Streams within the area of heaviest rainfall of the 29-30th overran their banks and interrupted traffic on highways during the latter part of the storm, particularly on the 30th. The cool weather greatly retarded growth of late potatoes and late truck crops and the maturing of corn, tomatoes, tobacco, sweet potatoes, tree fruits, etc. Crops and pastures were fair to good generally, except poor between the Allegheny and Blue Ridge Mountains. Cutting of early corn began during the second decade over the eastern portion and became general during the third. Late corn eared well. Late potatoes were good and were in bloom. Digging of sweet potatoes began during the third decade over the southern half of the section. Harvesting of tomatoes, apples, and pears continued. Harvesting of sugar corn and peaches ended during the third decade. Cutting of tobacco began during the second decade. Watermelons were harvested during the first decade. Tomatoes were of good quality, but a short crop; the season was at its peak around the 20th. In the Allegheny Mountain region harvesting of oats ended during the first decade; during the second and third decades oats were threshed, and digging of late potatoes, harvesting of buckwheat, and sowing of wheat and rye were in progress. Sowing of wheat and rye began during the closing week on the northern Piedmont Plateau. The growing season continued two to three weeks backward.

October was the driest and sunniest such month of record. Clear skies and pleasant weather of the "Indian Summer" type were the rule from the 1st to the 26th, inclusive. Much cloudiness prevailed thereafter. Monthly sunshine was about 80 per cent of the possible. Mean monthly temperatures were 1° to 2° above normal in western and north-central Maryland; but 1° to 2° below normal in southern Maryland and on the Eastern

(Continued on page 52)

Climatological Data for the Year 1924

Stations	Counties	Elevation, feet	Temperature, degrees Fahrenheit						Precipitation						Number of rainy days	Sky			Prevailing direction of wind	
			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 clear days	Number of partly cloudy days		Number of cloudy days
Maryland																				
Aberdeen	Harford	80	6	52.1	96	Aug. 6	4	Jan. 22	6	38.09	5.90	Apr.	0.05	Oct.	20.2	90	97	96	173	nw.
Annapolis	Anne Arundel	45	59	54.2	98	July 30	7	Jan. 22	51	48.37	6.27	Sept.	0.34	Oct.	22.0	110	180	86	100	sw.
Baltimore (U.S.W.B.)	Prince Georges	115	54	54.7	100	Aug. 6	7	Jan. 22	54	49.04	6.66	Mar.	0.05	Oct.	31.8	104	133	103	130	sw.
Bell	Prince Georges	151	4	52.6	100	Aug. 6	0	Jan. 22	4	47.13	7.62	Sept.	0.43	Oct.	35.8	107	157	120	89	nw.
Boyd's	Montgomery	424	5	52.8	103	Aug. 31	3	Jan. 22	5	40.50	6.54	Sept.	0.40	Oct.	33.5	104	125	135	106	w.
Cambridge	Dorchester	25	31	54.2	96	Aug. 6	9	Jan. 22	31	50.30	7.61	Sept.	1.21	July	.....	112	199	104	63	sw.
Cecilton	Cecil	85	6	53.6	100	Aug. 6	6	Jan. 22	6	47.12	6.58	May	0.05	Oct.	18.3	119	134	80	152	sw.
Cheltenham	Prince Georges	230	24	54.2	100	Aug. 6	0	Jan. 22	24	50.68	7.26	Aug.	0.62	Oct.	23.4	124	178	67	121	nw.
Chesapeake City	Cecil	17	.....	.....	.....	.....	.....	.....	5	44.83	6.93	June	0.12	Oct.	19.2	97	190	73	103	nw.
Chesville	Washington	530	27	50.4	97	Aug. 6*	2	Jan. 22	27	37.41	5.22	May	0.34	Oct.	44.0	98	178	107	81	nw.
Clear Spring (a)	do	500	22	51.1	100	Sept. 1	3	Jan. 22	27	42.24	7.70	May	0.52	Oct.	47.7	102	196	71	99	w.
Clear Spring (b)	do	500	.....	.....	.....	.....	.....	.....	27	40.84	7.31	May	0.54	Oct.	47.8	105	186	83	97	.....
Coleman	Kent	80	25	.....	100	Aug. 6	6	Jan. 22	27	.....	5.68	Sept.	0.05	Oct.	18.0	98	168	108	90	nw.
College Park	Prince Georges	87	37	52.9	102	Aug. 6	1	Jan. 22	38	48.57	7.88	Sept.	0.42	Oct.	29.5	106	196	80	90	nw.
Crisfield	Somerset	5	6	56.3	94	June 20	11	Jan. 22	6	46.43	7.43	May	0.43	Oct.	4.0	108	133	128	105	nw.
Cumberland	Allegany	623	41	51.2	99	Aug. 6*	-2	Feb. 24	52	39.82	7.34	May	0.39	Oct.	57.4	128	202	68	96	nw.
Darlington	Harford	300	34	51.8	101	Aug. 6	1	Jan. 22	33	45.87	7.29	Sept.	0.06	Oct.	11.7	114	199	84	83	nw.
Easton	Talbot	35	34	54.7	100	Aug. 6*	9	Jan. 6*	34	48.56	6.29	Sept.	0.79	Oct.	11.7	104	210	70	86	w.
Emmitsburg	Frederick	720	56	51.8	96	Aug. 31	2	Jan. 22	55	.....	8.02	May	0.23	Oct.	64.8	98	163	88	115	sw.
Fallston	Harford	450	55	51.6	95	Aug. 6	2	Jan. 22	55	50.79	7.22	Sept.	0.10	Oct.	29.8	119	133	149	84	nw.
Ferry Landing	Calvert	45	8	54.1	98	Aug. 6	4	Jan. 22	8	49.85	7.44	Aug.	0.51	Oct.	17.2	101	115	152	99	nw.
Frederick	Frederick	275	50	53.5	101	Aug. 6	6	Jan. 6	50	42.12	6.58	May	0.28	Oct.	40.2	114	205	56	105	nw.
Freeland	Baltimore	681	8	49.6	99	Aug. 9	0	Jan. 6*	8	.....	8.10	June	0.20	Oct.	53.7	91	203	79	84	w.
Friendsville	Garrett	1,501	6	47.9	90	Aug. 6	-5	Feb. 24	6	.....	6.39	June	0.40	Oct.	64.2	132	132	108	126	w.
Frostburg	Allegany	1,929	20	48.4	92	Aug. 5	-10	Jan. 6	23	49.43	8.68	May	0.32	Oct.	62.6	119	187	100	79	e.
Grantsville	Garrett	2,351	31	45.6	88	Aug. 6	-13	Feb. 24	31	.....	7.36	May	0.15	Oct.	80.2	124	138	100	128	w.
Great Falls	Montgomery	200	27	52.8	101	Aug. 6	0	Jan. 22	35	46.97	8.10	May	1.04	July	29.2	110	145	121	100	nw.
Hancock	Washington	455	13	.....	101	Aug. 31*	-5	Feb. 24	14	.....	7.28	May	0.44	Oct.	46.8	125	198	71	97	.....
Ilchester	Howard	260	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	0.15	Oct.	.....	.....	.....	.....	.....	.....
Keedysville	Washington	400	21	52.2	103	Aug. 31	0	Feb. 24	21	39.58	6.51	May	0.50	Oct.	35.5	103	194	90	82	nw.
La Plata	Charles	190	8	.....	100	Aug. 6*	4	Jan. 22	8*	.....	6.64	Sept.	1.26	Oct.	12.5	113	189	89	88	nw.
Laurel	Prince Georges	320	30	52.6	99	Aug. 6	0	Jan. 22	30	49.41	8.07	Sept.	0.28	Oct.	32.8	116	202	74	90	nw.
Millington	Kent	27	27	53.5	100	Aug. 6	6	Jan. 22	26	48.82	6.97	Sept.	0.12	Oct.	17.5	119	199	69	98	w.
Oakland	Garrett	2,461	25	45.8	91	Aug. 31	-11	Feb. 16	25	50.12	7.44	May	0.50	Oct.	65.5	170	108	163	105	w.
Princess Anne	Somerset	17	49	53.9	94	Aug. 6*	7	Jan. 22	31	48.59	8.22	May	0.33	Oct.	4.5	99	126	134	106	sw.
Public Landing	Worcester	10	9	54.0	97	Aug. 7	4	Jan. 22	9	44.27	6.64	June	0.53	Oct.	4.0	113	178	74	114	sw.
Ridgely	Caroline	57	3	53.9	98	Aug. 6*	7	Jan. 22	3	50.05	7.18	Sept.	0.45	Oct.	14.0	104	147	126	93	nw.
Rock Hall	Kent	25	10	53.7	99	Aug. 6*	8	Jan. 22	10	46.76	7.75	Sept.	0.16	Oct.	19.0	110	175	111	80	s.
Salisbury	Wicomico	23	19	.....	99	Aug. 6	3	Jan. 22	19	48.61	6.88	June	0.31	Oct.	.....	106	160	116	90	sw.
Solomons	Calvert	20	33	55.9	97	Aug. 7	8	Jan. 22	33	38.93	5.34	Sept.	0.85	Oct.	7.5	114	95	87	134	nw.
State Sanatorium	Frederick	1,460	16	50.2	94	Aug. 31	0	Jan. 6*	16	47.07	7.42	May	0.18	Oct.	61.9	101	192	74	100	nw.
Takoma	Montgomery	320	26	52.8	97	Aug. 6	5	Jan. 22	26	42.07	5.92	May	1.18	Oct.	32.5	101	121	119	126	.....
Towson	Baltimore	465	12	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Western Port	Allegany	1,000	31	51.7	99	Aug. 31	-2	Feb. 31	31	42.08	8.46	May	0.33	Oct.	50.7	121	.....	.....	.....	.....
Westminster	Carroll	770	15	51.6	97	Aug. 6*	1	Jan. 22	15	50.25	7.41	Sept.	0.20	Oct.	60.5	104	188	89	89	.....
Woodstock	Baltimore	415	54	52.2	95	Aug. 6*	2	Jan. 22	54	.....	7.51	Sept.	0.19	Oct.	40.5	99	172	93	101	nw.
District of Columbia																				
Washington (U.S.W.B.)	.....	112	54	54.1	102	Aug. 6	6	Jan. 22	54	49.02	7.86	Sept.	0.44	Oct.	20.2	112	121	119	126	nw.
Delaware																				
Bridgeville	Sussex	45	1	.....	96	Aug. 6*	5	Jan. 22	1	.....	7.90	June	0.60	Oct.	.....	102	187	107	72	nw.
Delaware City	Newcastle	10	33	53.1	98	Aug. 6*	5	Jan. 22	34	.....	7.90	May	0.19	Oct.	.....	102	187	107	72	nw.
Dover	Kent	34	35	53.8	98	Aug. 6	5	Jan. 22	35	46.16	6.09	May	0.19	Oct.	14.5	108	213	90	63	nw.
Millford	do	20	32	54.2	98	Aug. 6	4	Jan. 22	42	52.47	7.05	Apr.	0.79	Oct.	6.0	113	188	107	71	nw.
Millsboro	Sussex	20	32	54.1	100	Aug. 6*	2	Jan. 22	32	50.10	6.60	Aug.	0.71	Oct.	8.0	110	163	105	98	nw.
Seaford	do	40	34	.....	100	Aug. 6	1	Jan. 22	34	.....	5.57	Mar.	0.84	Oct.	.....	.....	.....	.....	.....	.....
Wilmington	Newcastle	86	31	52.2	94	Aug. 6*	4	Jan. 22	31	52.70	8.35	Jan.	0.05	Oct.	22.9	105	215	61	100	nw.
For Maryland and District of Columbia	.....	.....	.....	52.4	103	Aug. 31	-13	Feb. 24	.....	46.16	6.60	May	0.40	Oct.	33.0	111	165	97	104	nw.
For Delaware	.....	.....	.....	53.5	100	Aug. 6*	1	Jan. 22	.....	48.53	5.80	June	0.39	Oct.	12.5	108	192	92	82	nw.
For entire section	.....	.....	.....	52.6	103	Aug. 31	-13	Feb. 24	.....	46.46	6.44	May	0.40	Oct.	30.5	111	165	98	103	nw.

*Also on other dates.

†Post Office 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 Ilchester, Elkridge; of Public Landing, Snow Hill.

(Continued from page 51)

Shore. Cool and mild periods alternated frequently. The first general freezing temperatures and killing frosts of the season to the eastward of the Blue Ridge Mountains occurred during the cool wave of the 21st-24th and killed late potato and tomato vines, beans, and most truck crops. Monthly rainfall averaged about one-eighth of normal. In southern Maryland, however, the rainfall this month was not the least in October, as it averaged about one and two-thirds times the rainfall during October,

1920, which was the driest October of record in that division. Cutting of corn, a short crop, was finished, except in southern Maryland and on the Eastern Shore. Digging of late potatoes continued in the Allegheny Mountain region, and began in Allegany and Washington Counties during the second decade, and to the eastward of the Blue Ridge Mountains during the third. Harvesting of tomatoes and cutting of tobacco ended during the second decade. Picking of apples and pears, digging

(Continued on page 53)

Monthly and Annual Precipitation for the Year 1924, with Departures from the Normal

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	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																										
Aberdeen.....	3.80		3.97		3.13		5.90		4.78		5.34		0.33		2.59		5.09		0.05		1.43		1.68		38.09	
Annapolis.....	3.67	+0.26	3.81	+0.33	5.75	+1.80	5.43	+1.69	5.97	+1.72	5.17	+0.84	2.04	-2.51	6.15	+1.42	6.27	+2.29	0.34	-3.03	1.29	-1.71	2.48	-1.18	48.37	+1.92
Baltimore (U. S. W. B.)....	4.33	+1.11	4.14	+0.51	6.66	+2.78	5.89	+2.62	5.80	+2.24	5.54	+1.70	1.99	-2.83	5.22	+1.01	5.75	+1.90	0.05	-2.97	1.37	-1.55	2.30	-0.78	49.04	+5.74
Bell.....	3.64		3.61		4.85		5.87		6.25		4.16		2.35		4.67		7.62		0.43		1.55		2.13		47.13	
Boysds.....	3.29		3.57		5.05		4.89		6.23		3.36		0.72		3.04		6.54		0.40		1.62		1.89		40.50	
Cambridge.....	4.11	+0.60	3.56	-0.10	4.93	+0.89	5.34	+1.64	5.43	+1.79	5.43	+1.57	1.21	-3.40	5.90	+1.32	7.61	+4.60	1.78	-1.63	2.07	-0.65	2.93	-0.50	50.30	+6.13
Cecilton.....	3.89		4.07		3.79		5.66		6.58		6.28		2.60		3.52		5.76		0.05		2.30		2.62		47.12	
Cheltenham.....	3.92	+0.89	3.35	-0.57	5.08	+1.24	4.91	+0.89	7.20	+3.99	6.02	+1.46	1.67	-2.98	7.26	+2.87	6.67	+3.58	0.62	-2.34	1.57	-0.76	2.41	-1.23	50.68	+7.68
Chesapeake City.....	3.16		3.64		3.59		5.63		4.76		6.93		2.72		3.97		5.66		0.12		2.15		2.50		44.83	
Chewsville.....	3.70	+0.68	3.03	+0.64	4.15	+1.19	3.31	+0.47	5.22	+1.91	4.64	+0.48	2.88	-1.02	2.38	-1.48	4.19	+1.46	0.34	-2.30	1.90	-0.01	1.77	-1.07	37.41	+0.95
Clear Spring (*).....	5.86	+2.53	3.04	-0.21	4.40	+0.81	3.60	-0.21	7.70	+3.97	5.25	+1.05	2.79	-1.39	1.13	-3.43	4.66	+1.75	0.52	-2.26	1.51	-0.56	1.78	-1.60	42.24	+1.29
Clear Spring (v).....	4.84	+1.51	2.81	-0.02	5.04	+1.45	3.67	+0.28	7.31	+3.58	5.09	+0.89	2.70	-1.48	1.30	-3.26	4.24	+1.33	0.54	-2.24	1.65	-0.42	1.65	-1.73	40.84	-0.11
Coleman.....			4.16	+1.06	3.57	-0.19	5.49	+1.98	5.57	+2.17			0.29	-4.21	4.29	-0.67	5.68	+2.22	0.05	-2.99	2.10	-0.49	2.47	-1.58		
College Park.....	3.73	+0.55	3.56	+0.30	5.78	+2.18	5.56	+2.07	6.95	+3.13	4.14	-0.05	1.50	-2.94	4.82	+0.72	7.88	+4.76	0.42	-2.31	1.47	-1.02	2.76	-0.37	48.57	+7.02
Crisfield.....	3.22		2.19		6.44		6.36		7.43		5.32		3.36		1.09		5.07		0.43		2.44		3.08		46.43	
Cumberland.....	3.68	+1.18	2.66	+0.10	4.93	+1.84	2.86	+0.13	7.34	+3.89	5.74	+1.70	3.24	+0.02	2.52	-1.05	3.83	+1.16	0.39	-2.00	1.56	-0.56	1.07	-1.46	39.82	+4.95
Darlington.....	5.00	+1.66	3.87	-0.54	3.49	+0.02	4.98	+1.68	7.29	+3.81	6.80	+2.81	1.33	-3.29	2.92	-2.11	4.86	+1.22	0.06	-3.13	2.22	-0.58	3.05	-0.79	45.87	+1.84
Easton.....	3.98	+1.11	4.04	+0.94	5.49	+1.93	5.64	+2.39	5.29	+1.86	3.91	+0.03	2.54	-1.85	5.63	+1.40	6.29	+3.27	0.79	-2.47	2.22	-0.39	2.74	-0.33	48.56	+7.89
Emmitsburg.....			3.99	-0.79	5.92	+1.79	4.66	+1.27	8.02	+3.93	6.10	+1.84	3.09	-0.97	3.41	-0.67	7.26	+3.67	0.23	-3.37	1.10	-1.19	1.85	-1.38		
Fallston.....	5.19	+1.50	4.36	+0.64	4.51	+0.42	6.57	+3.05	6.60	+2.80	5.78	+1.69	2.36	-2.15	3.98	-1.04	7.22	+3.16	0.10	-3.36	1.54	-1.69	2.58	-1.13	50.79	+3.89
Ferry Landing.....	3.58		3.26		4.37		5.82		6.84		4.12		3.85		7.44		6.55		0.51		1.42		2.09		49.85	
Frederick.....	4.10	+0.90	3.46	+0.44	5.33	+2.03	4.32	+0.93	6.55	+2.82	2.74	-1.70	1.18	-2.96	4.50	+0.83	6.02	+2.77	0.28	-2.36	1.66	-0.85	1.95	-1.20	42.12	+1.65
Freedland.....			4.27		4.15		5.20		7.15		8.10		1.70		3.15		5.90		0.20		1.63		2.80			
Friendsville.....	4.83		3.02		5.40		2.76		6.08		3.39		3.51		5.88		4.87		0.40		1.42		1.42			
Frostburg.....	4.43	+0.75	3.86	+1.19	5.57	+1.63	3.63	-0.10	8.68	+4.59	8.04	+3.06	2.80	-1.43	3.82	-0.60	5.05	+1.91	0.32	-2.69	1.75	-0.57	1.48	-1.55	49.43	+6.19
Grantsville.....	3.90	+0.24	3.57	-0.42	5.38	+1.40	2.79	-0.82	7.36	+3.49	6.01	+1.75	3.53	-0.85	3.58	-0.45	4.74	+2.02	0.15	-2.59	1.66	-0.93				
Great Falls.....	4.69	+1.82	3.22	-0.49	4.78	+1.49	4.16	+1.10	8.10	+4.74	3.86	-0.44	1.04	-3.17	5.65	+1.95	7.24	+4.17	1.06	-1.58	1.59	-0.60	2.08	-1.18	46.97	+8.59
Hancock.....	4.33	+1.60	2.66	-0.55	5.24	+1.89			7.28	+4.42	6.13	+1.46	3.51	-0.53	1.67	-1.62	4.67	+2.23	0.44	-2.19	1.57	-0.44	1.52	-1.23		
Ilchester.....											2.80				6.78		6.99		0.15		1.58		2.35			
Keedysville.....	4.26	+1.04	3.05	+0.40	4.88	+1.94	3.38	+0.24	6.51	+3.39	4.87	+0.75	2.33	-1.61	1.23	-3.37	4.73	+1.97	0.50	-2.43	2.30	+0.43	1.54	-1.53	39.58	+1.22
La Plata.....	3.44		2.44				6.00		6.04		3.53		1.56		5.54		6.64		1.26		1.83		1.83			
Laurel.....	3.67	+0.28	3.48	+0.45	4.99	+1.22	5.45	+1.80	6.17	+2.64	4.54	+0.81	1.68	-3.06	7.12	+2.32	8.07	+4.79	0.28	-2.65	1.53	-0.92	2.43	-1.31	49.41	+5.87
Millington.....	4.55	+1.04	4.48	+1.19	5.82	+1.78	5.42	+1.81	6.40	+3.23	4.04	+0.08	1.55	-3.15	4.00	-0.72	6.97	+3.45	0.12	-3.02	2.23	-0.39	3.24	-0.75	48.82	+4.55
Oakland.....	5.18	+0.98	4.18	+0.93	5.88	+2.15	4.27	+0.24	7.44	+3.00	4.00	-0.62	5.95	+1.24	2.47	-1.79	5.34	+2.32	0.50	-2.78	2.42	-0.03	2.49	-1.18	50.12	+4.46
Princess Anne.....	3.98	+0.89	2.52	-0.94	5.46	+1.72	6.96	+3.62	8.22	+5.14	5.45	+1.58	0.98	-3.46	1.84	-1.59	5.54	+2.76	0.33	-3.01	2.26	-0.17	3.35	+0.20	48.59	+6.74
Public Landing.....	4.11		2.09		4.47		6.03		5.05		6.64		1.45		3.49		5.41		0.53		2.63		2.37		44.27	
Ridgely.....	3.72	+0.74	4.08	+1.13	4.79	+1.31	5.20	+1.94	5.04	+1.80	5.02	+1.13	5.43	+1.05	4.23	-0.45	7.18	+4.20	0.45	-2.73	2.04	-0.57	2.87	-0.33	50.05	+8.72
Rock Hall.....	3.61		3.85		5.15		5.71		5.69		4.23		1.31		4.46		7.75		0.16		2.02		2.82		46.76	
Salisbury.....	3.70	+0.15	2.27	-0.84	5.34	+1.32	6.27	+2.99	6.50	+2.94	6.18	+2.90	1.07	-2.73	5.36	-0.07	5.52	+2.27	0.31	-3.22	2.17	-0.69	3.22	-0.33	48.61	+4.49
Solomons.....	2.45	-0.31	2.99	-0.02	3.71	+0.47	4.47	+1.54	5.11	+2.03	3.65	+1.17	3.54	-0.63	2.74	-1.13	5.34	+2.73	0.85	-1.88	1.81	-0.19	2.77	+0.04	38.93	+2.48
State Sanatorium.....	4.42	+0.68	3.70	+0.63	5.33	+1.96	3.62	-0.18	7.42	+3.99	6.59	+1.81	3.62	-0.30	1.65	-3.65	6.73	+2.88	0.18	-2.56	1.95	-0.30	1.86	-1.44	47.07	+3.52
Takoma.....	3.30	-0.32	3.05	+0.04	5.09	+1.34	4.94	+1.41	5.92	+2.70	3.83	-0.68	1.34	-3.33	4.59	+0.10	5.25	+1.89	1.18	-1.55	1.29	-0.80	2.29	-1.57	42.07	-0.77
Towson.....																	7.01	+4.28	T.	-2.68	1.58	-0.68	2.33	-0.93		
Western Port.....	4.00	+1.52	2.67	+0.56	4.75	+1.94	3.92	+1.38	8.46	+5.06	5.13	+1.13	3.49	-0.30	2.54	-0.96	4.38	+1.88	0.33	-1.93	1.31	-0.37	2.10	-1.12	42.08	+8.79
Westminster.....	4.71	+1.78	4.29	+1.21	5.97	+2.34	4.62	+1.67	7.23	+3.41	8.00	+2.96	2.51	-2.00	3.27	-1.41	7.41	+3.69	0.20	-2.24	1.66	-1.21	2.38	-1.18	50.25	+9.02
Woodstock.....	6.10	+2.72	8.52	+0.36	4.85	+1.12	4.98	+1.83	7.25	+3.60	5.23	+1.38			6.07	+1.67	7.51	+3.92	0.19	-2.90	2.40	-0.80	2.47	-0.74		
District of Columbia																										
Washington (U. S. W. B.)..	3.21	-0.16	3.05	-0.48	6.17	+2.32	5.39	+2.14	6.78	+2.90	3.89	-0.29	2.76	-1.89	5.07	+0.67	7.86	+4.27	0.44	-2.65	1.47	-1.24	2.98	-0.18	49.02	+5.41
Delaware																										
Bridgeville.....																	5.99	+2.36	0.60	-2.77	1.85	-0.75	3.13	-0.16		
Delaware City.....	2.95	+0.17	4.13	+1.52			4.64	+1.38	4.43	+1.07	7.90	+4.10	3.93	+0.27	3.14	-0.82	5.59	+2.42	T.	-2.54	1.95	-0.19	2.48	-1.33		
Dover.....																										

Monthly and Annual Mean Temperatures for the Year 1924, with Departures from the Normal

	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
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																										
Aberdeen	31.8		32.0		40.8		49.8		57.9		68.6		73.6		73.1		63.0		56.3		44.4		33.9		52.1	
Annapolis	35.4	+1.2	34.2	-0.4	42.8	-0.3	51.2	-2.2	60.5	-3.8	70.0	-3.3	74.1	-3.7	74.7	-1.6	66.0	-3.5	58.0	-0.1	46.8	0.0	37.1	+0.1	54.2	-1.5
Baltimore (U. S. W. B.)	34.8	+0.8	34.6	-0.8	43.0	+0.7	52.2	-1.4	60.2	-4.2	71.2	-1.5	76.1	-1.3	76.0	+0.5	65.4	-3.1	59.4	+1.2	47.0	+0.7	36.8	-0.4	54.7	-0.8
Bell	34.0		32.3		41.8		50.0		59.6		70.0		73.2		73.4		63.4		55.0		44.3		34.8		52.6	
Boysds	33.4		32.8		41.4		50.2		59.6		70.2		74.0		74.0		63.0		56.6		44.3		34.5		52.8	
Cambridge	36.9	+1.5	34.6	-0.3	42.4	-2.3	51.5	-3.4	61.0	-4.9	70.7	-2.8	74.7	-3.6	74.2	-2.4	64.6	-5.8	57.0	-2.5	46.6	-0.8	37.8	+0.3	54.2	-2.4
Cecilton	35.0		33.4		42.5		51.2		59.7		69.8		74.6		74.4		64.8		57.0		45.6		35.6		53.6	
Cheltenham	35.8	+1.6	33.8	0.0	44.1	-0.2	51.4	-2.5	60.6	-3.2	70.6	+0.1	74.0	-1.5	74.8	-1.3	64.4	-3.3	57.0	-0.5	46.7	+1.5	37.1	+2.2	54.2	-0.4
Chewsville	31.4	+0.3	29.8	+0.2	38.4	-2.7	47.8	-2.9	57.1	-4.2	68.0	-1.2	71.7	-2.5	71.9	-0.4	60.8	-5.1	54.2	-0.8	41.5	-1.2	32.3	+0.2	50.4	-1.7
Clear Spring (*)	30.1	+0.8	29.8	+1.8	38.3	-1.7	49.8	-0.4	57.6	-3.8	68.8	+0.6	72.5	-1.0	73.0	+1.6	62.5	-3.0	55.8	+1.6	42.2	-0.2	33.0	+1.9	51.1	-0.2
Coleman	35.0	+1.8	33.0	+0.4	41.4	-2.0	51.0	-2.0	59.4	-4.4			75.4	-1.2	74.7	+0.3	65.6	-3.3	58.2	-0.2	46.0	0.0	35.4	-0.1		
College Park	34.4	+1.1	33.0	-0.8	42.4	-0.9	50.2	-2.6	59.4	-3.4	70.4	-0.5	73.6	-1.5	73.8	+0.1	63.0	-4.5	54.6	-1.7	44.6	+0.3	35.4	+1.7	52.9	-1.0
Crisfield	38.4		37.3		44.2		53.4		63.4		72.2		75.2		76.0		67.6		58.9		49.0		40.2		56.3	
Cumberland	29.5	-1.5	30.2	-2.5	39.4	-0.1	50.4	-1.4	57.8	-5.0	69.7	-0.6	72.8	-1.1	73.2	+1.2	61.2	-3.8	55.4	+1.1	42.4	+0.1	32.6	-1.1	51.2	-1.2
Darlington	32.0	+1.2	31.6	+1.4	40.2	-0.8	49.1	-2.5	58.4	-3.8	68.4	-1.4	73.4	-1.0	73.4	+0.9	63.2	-3.0	55.6	+0.4	42.8	-0.8	34.0	+0.6	51.8	-0.8
Easton	37.0	+2.6	35.4	+1.5	43.8	0.0	51.8	-1.6	61.0	-2.7	71.0	+0.1	74.7	-1.4	75.4	+1.1	64.5	-3.8	57.0	-0.9	46.8	+0.7	38.2	+1.6	54.7	-0.3
Emmitsburg	32.0	+1.4	30.5	-1.2	39.4	-0.6	50.2	-1.5	58.3	-3.7	68.4	-1.4	72.9	-2.3	72.6	0.0	62.6	-3.1	57.2	+2.2	43.9	+1.0	33.2	+9.2	51.8	-0.7
Fallston	32.4	+1.5	33.0	+1.6	40.2	+0.8	49.4	-1.2	57.4	-4.0	67.2	-2.2	71.4	-2.6	71.8	-0.3	62.0	-3.8	56.2	+1.0	44.2	+0.9	33.6	-0.1	51.6	-0.7
Ferry Landing	36.2		34.0		43.2		51.6		60.6		70.6		74.0		74.0		63.8		56.2		47.2		37.6		54.1	
Frederick	32.7	+0.6	32.1	-0.5	41.4	-0.5	51.9	-0.7	60.6	-2.9	72.1	+0.4	76.0	-0.2	75.6	+1.2	64.2	-2.9	56.7	+1.0	44.2	+0.3	34.6	+0.1	53.5	-0.3
Freeland	30.3		29.6		37.8		46.6		55.3		67.6		69.7		71.0		60.9		53.0		41.2		32.6		49.6	
Friendsville	29.3		29.0		36.2		46.7		55.6		65.1		66.4		68.2		56.6		50.0		40.0		31.5		47.9	
Frostburg	28.3	-1.6	27.7	-1.4	36.0	-2.6	46.8	-3.2	53.6	-6.8	65.8	-1.8	68.2	-3.6	69.8	-0.6	58.6	-5.7	55.2	+0.3	39.6	-2.4	30.8	-0.3	48.4	-2.4
Grantsville	26.4	-0.6	25.4	-0.2	31.8	-4.5	45.0	-0.9	51.8	-5.2	63.3	-0.4	66.0	-2.0	68.0	+1.4	55.0	-6.1	48.8	-1.8	37.0	-2.0	28.7	-0.2	45.6	-1.9
Great Falls	33.6	+1.1	32.2	+0.5	42.0	-1.0	50.5	-2.3	60.0	-3.8	70.6	-0.1	73.4	-2.2	73.8	+0.1	62.7	-4.9	55.7	-0.7	44.2	+0.6	35.0	+1.6	52.8	-0.9
Hancock	30.6	+1.0	30.6	+1.8	40.0	-2.4					68.3	-3.3	70.8	-4.4	72.3	-1.4	61.7	-6.3	54.2	-0.7			32.4	-0.8		
Keedysville	31.9	-0.1	31.6	+0.2	40.4	-2.2	50.0	-3.1	59.0	-4.4	69.9	-0.8	73.5	-1.8	74.7	+1.1	63.4	-3.7	54.8	-1.6	43.0	-0.6	33.7	+0.7	52.2	-1.3
La Plata	36.4		34.8				51.8		60.8		71.4		75.4		75.0		64.4		57.4		47.1		37.6			
Laurel	33.6	+1.3	32.4	+0.5	41.8	-0.7	50.0	-2.5	58.8	-4.5	69.7	-0.8	73.6	-1.7	73.4	-0.1	63.4	-3.9	55.3	-0.5	44.7	+0.5	34.9	+0.8	52.6	-0.9
Millington	35.3	+1.6	33.0	+0.4	42.0	-1.5	50.8	-2.4	59.6	-4.0	69.8	-1.0	74.4	-1.8	74.6	+0.6	64.4	-3.6	56.2	-1.5	45.3	0.0	36.2	+0.8	53.5	-1.0
Oakland	26.8	-1.3	26.1	-0.5	33.6	-2.7	44.2	-1.7	51.0	-5.0	64.2	+0.7	65.0	-1.7	66.9	+1.2	55.0	-5.4	49.3	-0.3	37.8	+0.2	29.4	+0.6	45.8	-1.3
Princess Anne	36.4	-0.6	35.5	-1.2	42.8	-2.7	50.6	-3.8	60.4	-2.8	69.8	-1.3	72.8	-3.4	73.1	-1.6	64.2	-4.5	56.6	-1.2	46.5	-0.8	38.2	-0.6	53.9	-2.1
Public Landing	37.4		34.6		41.4		49.7		60.2		69.4		73.4		74.2		65.0		56.1		47.2		39.2		54.0	
Ridgely	36.0	+1.8	34.4	+0.9	42.2	-1.1	51.2	-1.7	59.5	-4.2	70.4	-0.8	74.2	-2.9	74.2	-0.1	64.6	-3.8	56.2	-1.2	46.2	+0.5	37.4	+1.7	53.9	-0.8
Rock Hall	35.2		34.1		41.9		50.9		59.6		70.0		74.6		74.6		64.4		57.2		46.0		36.2		53.7	
Salisbury	37.8	+0.9	35.6	-1.0	43.4	-1.2					71.0	-0.4	73.9	-2.8	74.8	-0.4	65.4	-3.3	57.0	-1.9	47.2	+0.6				
Solomons	37.6	+2.2	35.7	+0.8	43.7	-0.4	52.2	-1.8	61.7	-3.5	71.8	-1.4	76.2	-2.0	76.8	-0.4	67.0	-4.4	59.6	-0.9	49.3	+0.8	39.7	+1.4	55.9	-0.8
State Sanatorium	30.1	+0.3	28.0	-1.4	37.2	-2.7	48.4	-2.7	56.9	-4.8	67.0	-1.9	70.9	-2.5	71.4	+0.2	61.6	-3.0	56.4	+0.6	42.6	-0.2	31.4	+0.7	50.2	-1.4
Takoma	33.0	+0.8	33.1	+1.8	42.2	-0.3	51.4	-1.2	59.0	-4.0	69.4	-0.3	73.4	-1.4	73.2	+0.2	62.6	-4.1	56.6	+0.3	44.8	+0.4	34.4	+0.6	52.8	-0.6
Western Port	31.4	+0.9	31.4	+0.9	39.5	-1.9	49.8	-1.6	57.2	-5.0	68.8	-0.3	71.4	-1.9	73.2	+1.4	61.8	-4.3	57.4	+2.6	43.8	+1.2	34.6	+2.1	51.7	-0.5
Westminster	32.2	+1.1	30.8	+0.1	39.4	-2.3	49.2	-2.9	57.8	-5.2	68.6	-2.4	72.8	-2.2	72.4	+0.4	62.7	-3.1	56.0	+1.1	43.6	+0.5	34.0	+1.0	51.6	-1.3
Woodstock	33.2	+1.3	32.4	-0.4	41.4	+0.4	49.7	-2.6	59.4	-3.9	68.2	-2.7	73.9	-1.4	71.8	-1.0	62.4	-3.4	55.5	+0.6	44.2	+1.1	34.6	+0.8	52.2	-1.0
District of Columbia																										
Washington (U. S. W. B.)	35.0	+1.6	34.2	-1.1	42.6	0.0	51.9	-1.4	60.0	-3.7	71.3	-1.0	75.0	-1.8	74.8	-0.2	64.2	-3.9	57.4	+0.2	46.0	+0.8	36.4	-0.2	54.1	-0.9
Delaware																										
Bridgeville																	65.0	-3.2	57.2	-0.1	46.3	+0.3	37.8	+0.9		
Delaware City	34.5	+1.7	32.0	-1.5	41.0	+0.3	50.4	-1.6	59.3	-4.0	68.6	-3.3	73.9	-2.9	74.0	-1.0	64.8	-3.4	57.2	-0.6	46.0	+0.3	35.2	-0.6	53.1	-1.4
Dover	36.4	+1.4	33.6	-1.3	42.4	+0.2	50.8	-2.4	59.9	-3.8	69.2	-3.0	74.0	-2.7	74.0	-0.6	64.6	-3.6	56.7	-0.6	46.8	+1.5	36.6	+0.2	53.8	-1.2
Milford	37.4	+1.8	34.8	+0.1	42.8	-1.9	51.2	-2.8	60.2	-4.2	69.6	-2.3	73.8	-0.8	74.0	-1.4	65.0	-4.2	56.0	-2.8	47.2	-0.1	38.2	+0.4	54.2	-1.7
Millsboro	35.4	+0.4	33.6	-0.9	41.8	-1.9	50.0	-2.6	59.4	-3.7	70.0	-0.8	73.7	-2.5	76.2	+1.5	66.2	-2.3	57.0	-0.9	47.0	+0.7	39.2	+2.1	54.1	-0.9
Seaford	36.2	+1.5	34.4	+0.5	42.6	-1.1	50.7	-2.3	60.0	-3.5	70.2	-0.7	73.8	-2.2	73.9	-0.5										
Wilmington	33.5	+0.7	31.2	-0.7	40.4	-1.9	49.2	-3.7	58.1	-5.7	68.2	-3.4	73.2	-3.6	73.4	-1.2	63.8	-4.3	57.0	-0.4	44.2	-1.2	34.4	-0.4	52.2	-2.2
For Maryland and District of Columbia																										
For Maryland	33.4	+1.1	32.3	+0.2	40.7	-1.2	50.0	-2.2	58.7	-4.1	69.3	-1.1	72.9	-2.1												

KILLING FROSTS, 1924

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
<i>Maryland</i>			<i>Maryland—Continued</i>			<i>Maryland—Continued</i>		
Aberdeen.....	Apr. 4	Oct. 23	Frederick.....	Apr. 4	Oct. 22	Takoma.....	Apr. 3	Oct. 23
Annapolis.....	Apr. 3	Oct. 23	Freeland.....	May 5	Sept. 11	Towson.....	Oct. 23	Oct. 23
Baltimore.....	Apr. 3	Oct. 23	Friendsville.....	May 5	Sept. 11	Western Port.....	May 5	Oct. 10
Bell.....	May 5	Oct. 21	Frostburg.....	May 5	Sept. 11	Westminster.....	Apr. 21	Oct. 22
Boysds.....	Apr. 21	Oct. 21	Grantsville.....	May 31	Sept. 7	Woodstock.....	May 5	Oct. 23
Cambridge.....	Apr. 4	Oct. 23	Great Falls.....	Apr. 21	Oct. 21	<i>District of Columbia</i>		
Cecilton.....	Apr. 5	Oct. 23	Hancock.....	May 5	Sept. 11	Washington.....	Apr. 3	Oct. 23
Cheltenham.....	Apr. 21	Oct. 22	Ilchester.....	Oct. 23	Oct. 23	<i>Delaware</i>		
Chesapeake City.....	Apr. 5	Oct. 23	Keedysville.....	May 5	Sept. 11	Bridgeville.....	Oct. 22	Oct. 22
Cheswille.....	May 5	Sept. 11	La Plata.....	Apr. 21	Oct. 22	Delaware City.....	Apr. 3	Oct. 23
Clear Spring.....	May 5	Oct. 21	Laurel.....	Apr. 21	Oct. 21	Dover.....	Apr. 4	Oct. 23
Coleman.....	Apr. 3	Oct. 23	Millington.....	Apr. 5	Oct. 22	Milford.....	Apr. 3	Oct. 22
College Park.....	May 5	Oct. 21	Oakland.....	May 25	Sept. 7	Millsboro.....	Apr. 12	Oct. 21
Crisfield.....	Mar. 28	Oct. 23	Princess Anne.....	Apr. 4	Oct. 23	Seaford.....	Apr. 12	Oct. 22
Cumberland.....	May 5	Sept. 11	Public Landing.....	Apr. 4	Oct. 22	Wilmington.....	Apr. 3	Oct. 23
Darlington.....	Apr. 12	Oct. 23	Ridgely.....	Apr. 5	Oct. 21			
Easton.....	Apr. 3	Oct. 23	Rock Hall.....	Apr. 3	Oct. 23			
Emmitsburg.....	Apr. 3	Oct. 23	Salisbury.....	Apr. 4	Oct. 22			
Fallston.....	Apr. 21	Oct. 22	Solomons.....	Apr. 3	Oct. 23			
Ferry Landing.....	Apr. 21	Oct. 22	State Sanatorium.....	Apr. 9	Oct. 21			

COMPARATIVE DATA FOR MARYLAND AND DELAWARE

Year	Temperature				Precipitation						Year	Temperature				Precipitation							
	Mean	Departure from the normal	Highest	Lowest	Average	Departure from the normal	Greatest local	Least local	Greatest in 24 hours	Snowfall		Number of days with 0.01 inch or more	Mean	Departure from the normal	Highest	Lowest	Average	Departure from the normal	Greatest local	Least local	Greatest in 24 hours	Snowfall	Number of days with 0.01 inch or more
1895.....	52.6	-1.1	102	-18	34.47	-7.39	42.07	14.42	4.80	29.9	94	1910.....	53.8	+0.1	99	-15	37.42	-4.44	52.45	26.74	7.19	34.8	109
1896.....	54.0	+0.3	103	-13	37.11	-4.75	64.94	30.18	4.50	23.0	92	1911.....	54.9	+1.2	106	-5	43.61	+1.75	55.58	33.62	7.35	23.2	119
1897.....	53.6	-0.1	102	-12	44.97	+3.11	63.85	32.56	14.75	18.4	109	1912.....	53.3	-0.4	102	-40	43.42	+1.56	52.68	35.50	6.07	32.2	112
1898.....	54.9	+1.2	105	-20	42.11	+0.25	65.77	32.59	5.93	21.6	109	1913.....	56.1	+2.4	102	-6	38.98	-2.88	48.96	25.41	4.05	6.1	108
1899.....	53.5	-0.2	102	-26	40.84	-1.02	51.38	28.69	5.35	40.3	98	1914.....	53.4	-0.3	102	-21	35.97	-5.89	43.32	29.35	3.81	37.2	98
1900.....	55.0	+1.3	106	-15	36.66	-5.20	52.19	28.21	5.53	26.8	83	1915.....	54.1	+0.4	103	-6	43.58	+1.72	59.39	26.82	5.11	23.1	107
1901.....	52.6	-1.1	106	-15	45.08	+3.22	70.87	34.63	5.45	18.7	99	1916.....	53.2	-0.5	101	-11	40.47	-1.39	49.72	26.14	6.00	28.5	112
1902.....	53.6	-0.1	104	-17	49.20	+7.34	61.38	33.75	6.00	33.3	105	1917.....	51.3	-2.4	102	-32	40.65	-1.21	54.22	27.17	4.52	35.7	110
1903.....	53.3	-0.4	100	-12	46.94	+5.08	73.73	36.58	6.00	17.9	106	1918.....	53.8	-0.1	109	-30	37.96	-3.90	46.95	28.88	4.50	31.4	98
1904.....	51.2	-2.5	102	-20	36.49	-5.37	50.26	25.72	5.90	41.9	96	1919.....	54.9	+1.2	105	-19	47.62	+5.76	60.84	30.69	9.02	11.9	114
1905.....	53.3	-0.4	104	-20	43.84	+1.98	64.64	31.88	4.65	36.1	106	1920.....	53.3	-0.4	98	-10	44.95	+3.09	56.29	32.49	4.30	20.0	113
1906.....	54.6	+0.9	101	-15	48.01	+6.15	62.92	36.10	8.66	20.7	123	1921.....	55.6	+2.9	102	-15	37.72	-4.14	54.12	28.69	5.60	20.5	114
1907.....	52.2	-1.5	99	-29	48.86	+7.00	66.59	37.55	5.00	34.6	121	1922.....	55.0	+1.3	100	-15	40.15	-1.71	55.65	24.39	6.75	34.8	111
1908.....	54.1	+0.4	102	-21	40.61	-1.85	52.50	31.63	7.93	32.5	101	1923.....	54.4	+0.7	102	-9	40.27	-1.59	50.38	31.47	5.17	22.0	115
1909.....	54.0	+0.3	99	-5	37.47	-4.39	50.45	28.30	3.80	30.0	105	1924.....	52.6	-1.1	103	-13	46.46	+4.60	52.70	37.41	4.53	30.5	111

CONDENSED SUMMARY CLIMATOLOGICAL DATA, 1924

Months	Temperature				Precipitation						Number of days				Prevailing direction of wind
	Mean	Departure from the normal	Maximum	Lowest	Average	Departure from the normal	Greatest local	Least local	Greatest in 24 hours	Snowfall	With 0.01 inch or more of precipitation	Clear	Partly cloudy	Cloudy	
January.....	33.7	+1.1	67	-10	4.06	+0.78	6.10	2.45	2.00	1.6	7	14	8	9	nw.
February.....	32.4	+0.0	68	-13	3.47	+0.40	4.48	2.09	2.54	10.7	9	11	9	9	nw.
March.....	40.8	-1.2	77	11	5.02	+1.37	6.66	3.13	2.68	10.9	10	14	8	9	nw.
April.....	50.1	-2.2	83	13	5.01	+1.67	7.05	2.76	2.54	5.4	12	14	7	9	nw.
May.....	58.8	-4.1	94	26	6.44	+2.86	8.68	4.43	3.36	0.0	17	11	8	12	w.
June.....	69.3	-1.3	99	33	5.27	+1.19	8.35	2.74	3.01	0.0	14	12	10	8	sw.
July.....	73.0	-2.2	100	42	2.48	-1.86	5.95	0.29	3.05	0.0	7	17	9	5	sw.
August.....	73.4	0.0	103	35	4.07	-0.35	7.44	1.09	4.35	0.0	8	16	10	5	sw.
September.....	63.2	-3.9	101	30	6.02	+2.52	8.07	3.83	4.53	0.0	12	11	6	13	sw.
October.....	56.0	-0.4	88	15	0.40	-2.62	1.78	1.78	1.78	0.0	2	24	4	3	nw.
November.....	44.7	+0.3	79	10	1.84	-0.68	2.79	1.29	2.02	1.6	5	12	9	9	nw.
December.....	35.2	+0.6	76	-4	2.38	-0.98	3.36	1.07	1.63	0.3	8	9	10	12	nw.
Year.....	52.6	-1.1	103	-13	46.46	+4.60	52.70	37.41	4.53	30.5	111	165	98	103	nw.

(Continued from page 54)

and Solomons. Monthly precipitation totaled between 1 and 2 inches generally over the western half of the section and between 2 and 3.4 inches over the eastern half. Light snow fell on the 1st, 20th, 21st, 25th, and 28th in the Allegheny Mountain region; to the eastward there were snow flurries. Snow set in over the southern portion of the section in the evening and night of the 31st. During the first and second decades winter grains

were in good condition generally, had a good color, and a good stand; and some plowing was done. During the third decade winter grains turned brown, skating was enjoyed, and harvesting of ice began due to the cold weather. Husking of corn was finished. Pastures were poor. Ice in the upper Chesapeake Bay interfered somewhat with the movement of vessels between Baltimore and Philadelphia, via the Chesapeake and Delaware Canal, during the 6-day period following Christmas Day.—J. B., jr.

Map Showing Climatological and Display Stations in Maryland and Delaware

