

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

CHARLES F. MARVIN, Chief

In Cooperation with Maryland State Weather Service

# CLIMATOLOGICAL DATA

## MARYLAND AND DELAWARE SECTION

JOHN R. WEEKS, Meteorologist and Section Director

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VOL. XXXV BALTIMORE, MD., SEPTEMBER, 1930 No. 9

### GENERAL SUMMARY

This September was unusually warm, as a result of the undue prolongation of summer weather. The mean temperature of 73.0° was 5.5° warmer than normal and but 0.3° less than the normal for August. It was the second warmest September of record, the warmest September being that of 1881. The month was also dry and sunny and was the third successive month of the summer drought. The rainfall was of the shower type, mostly light, and nearly all of it fell during the first and second decades. Monthly sunshine was between 5 and 10 per cent above normal. Relative humidity was low, being between 10 and 15 per cent below normal. The 12-17th was a humid period. The thundergust of the 16th caused slight damage in some localities. The prolonged dry weather gave opportunity for forest and grass fires.

Warm weather, with summer temperatures, prevailed during the 1st-3d, 6-7th, 13-17th, and 21st-26th. The weather was mild on the 4-5th, 10-12th, 18-20th, and 27-28th, and cool on the 8-9th and 29-30th. In the Allegheny Mountain region lowest temperatures were slightly above freezing and heavy frost formed on the 29th.

Monthly rainfall averaged 45 per cent of normal. Monthly amounts were less than 1 inch over the western third of the Eastern Shore, in southern Maryland, and in the southern and central portions of north-central Maryland; were between 1 and 2 inches in Worcester, Somerset, Wicomico, eastern Dorchester, Caroline, eastern Queen Annes, and Cecil Counties, and in western Maryland and the northern third of north-central Maryland, except 2 to 3 inches in the northern third of the Blue Ridge Mountain region and in Harford County; were between 2 and 3 inches in central and eastern Kent (Md.) County; and were between 2 and 4 inches generally in Delaware, except 1 to 2 inches in the Milford district and 4 to 5 inches in the Dover district.

Rainfall averaged 58 per cent of normal in western Maryland; 37 per cent in north-central Maryland; 21 per cent in southern Maryland; and 52 per cent on the Eastern Shore.

Some relief from the drought was afforded by heavy thunder-showers in central Baltimore, Harford, southern Cecil, and central and eastern Kent (Md.) Counties during night of 1st-2d; in the Bridgeville, Millsboro, and Princess Anne districts on the 7th; and in eastern Washington, northern Frederick, and north-eastern Harford Counties in the afternoon or at night of the 16th; and by moderate to heavy thundershowers in southern Maryland, the District of Columbia, the Allegheny and northern Blue Ridge Mountain regions, southern Cecil and eastern Kent (Md.) Counties, and Delaware, except western Sussex County, on the 13th.

Owing to the continued great deficiency in rainfall, crops remained poor and pastures remained dry, except that both benefited locally from the generous showers mentioned above. In the northern-border counties and in Delaware pastures greened somewhat by the close of the second decade and continued so thereafter. Harvesting light yields of corn, tomatoes, tobacco,

truck, apples, peaches, and pears continued. Tomatoes (affected by dry rot) and tree fruit were small. Tobacco crop was about one-fourth of normal. In the Allegheny Mountain region buck-wheat was harvested and digging of late potatoes; small in size, was in progress. Digging of sweet potatoes began during the closing week on the extreme southern Eastern Shore. Elsewhere late potatoes and sweet potatoes were failures. During the third decade grains were being sown in the western and central divisions. Streams, wells, and springs were very low. In some localities water was hauled for home and stock. Feeding of stock continued.

The summer of 1930 was warm, with a mean temperature of 74.4°, which is 1.3° above normal, and is the same as in 1899 and in 1911, and 1.5° less than in 1900, the warmest summer of record since 1872. This summer was the driest of record, with an average rainfall of 5.97 inches, which is 6.56 inches below normal, and 1.51 inches less than in 1894, the previous driest summer. The amount of sunshine and the number of days with 90° or higher and with 100° or higher were the greatest of record for any summer. The crop situation was the worst of record.—*J. B., jr.*

### PRESSURE

The monthly mean sea-level pressure at Washington, D. C., and Aberdeen was 30.00; at Baltimore, 29.98 inches. The highest at Washington, D. C., was 30.30; at Baltimore, 30.29; at Aberdeen, 30.30 inches—all on the 1st. The lowest at Washington, D. C., was 29.66 inches on 27th; at Baltimore, 29.66, and at Aberdeen, 29.68 inches—both on the 26th.

### TEMPERATURE

The monthly mean for the section, 73.0°, is 5.5° above normal. The highest monthly mean was 76.4° at Crisfield; the lowest, 63.4°, at Sines. The highest, 102°, occurred at Bell and Frederick on the 1st; the lowest, 33°, at Friendsville, Grantsville, and Oakland on the 29th. The greatest monthly range was 64° at Bell; the least, 40°, at Crisfield. The greatest daily range was 45° at Lutherville on the 28th.

### PRECIPITATION

The monthly average for the section, 1.47 inches, is 1.79 inches below normal. The greatest monthly amount was 4.34 inches at Dover; the least, 0.26 inch, at Rock Hall. The greatest 24-hour amount was 3.20 inches at Dover on the 12-13th. The number of days with 0.01 inch or more, 6, is 1 below normal.

### RELATIVE HUMIDITY

The average percentages were: Washington, D. C., 8 a. m., 74; 12 noon, 43; 8 p. m., 56. Baltimore, Md., 8 a. m., 70; 12 noon, 45; 8 p. m., 56. Aberdeen, Md., 8 a. m., 82; 4 p. m., 54. Philadelphia, Pa., 8 a. m., 74; 12 noon, 52; 8 p. m., 61.

### WIND

(By 3-cup anemometer, except 4-cup at Aberdeen, Md.)

The prevailing direction for the section was southwest. The total movement at Washington, D. C., was 2,523; at Baltimore, 5,439; at Aberdeen, 3,453 miles. The maximum velocity at Washington, D. C., was 22 miles from the northwest on the 16th and 27th; at Baltimore, 30 miles, and at Aberdeen 36 miles—both from the northwest on the 16th.

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Climatological Data for September, 1930

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches			Number of days				Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	With precip. 0.01 inch or more	Clear			Partly cloudy	Cloudy
<i>Maryland</i>																				
Aberdeen	Harford	80	12	71.8	+4.2	92	1	43	29	34	8.17	-0.08	1.92	0.0	9	6	14	10	s.	U. S. Army.
Annapolis	Anne Arundel	45	65	74.9	+5.2	94	22	52	28	28	0.69	-3.23	0.48	0.0	3	11	15	4	se.	Louis E. Foster.
Baltimore	Baltimore	115	60	76.2	+7.7	95	25	53	30	24	0.37	-3.00	0.21	0.0	8	8	16	6	sw.	U. S. Weather Bureau.
Bell II	Prince Georges	151	10	73.8	+5.2	102	1	38	28	44	0.35	-2.95	0.15	0.0	4	16	12	2	sw.	Bureau Plant Industry.
Boys	Montgomery	424	11																	
Cambridge (near)	Dorchester	25	37	75.1	+4.6	97	2	43	28	39	0.70	-2.37	0.45	0.0	3	16	10	4	s.	Matt Harding.
Cecilton	Cecil	85	12	74.0	+5.4	96	1	47	29	33	2.06	-1.59	1.50	0.0	3	17	10	3	s.	James Reese Short.
Cheltenham	Prince Georges	230	30	74.4	+6.2	100	1	43	28	37	0.96	-2.31	0.90	0.0	3	16	11	3	sw.	Geo. Hartnell.
Cheswille	Washington	530	33	71.2	+5.1	96	1	38	29	37	2.81	-0.06	1.00	0.0	8	13	14	3		D. Paul Oswald.
Clear Spring	do	600	38																	Mrs. Leo A. Cahill.
Coleman II	Kent	80	33	74.3	+5.1	95	26	60	28	34	2.27	-1.14	1.43	0.0	6	20	8	2	nw.	Walter B. Harris.
College Park	Prince Georges	87	44	74.5	+6.8	101	1	40	28	43	0.91	-2.31	0.50	0.0	6	17	11	2	sw.	Prof. Thos. A. White.
Crisfield	Somerset	5	11	76.4	+5.4	94	73	54	28	29	0.62	-2.34	0.34	0.0	3	17	9	4	s.	A. B. Cochrane.
Cumberland	Allegany	623	58	71.8	+6.4	98	2	41	29	40	1.51	-1.22	0.47	0.0	8	20	7	3		Harvey H. Weiss.
Darlington	Harford	300	40	72.0	+5.5	92	15	40	29	36	2.35	-1.16	1.34	0.0	6	11	15	4	sw.	Fred. C. Jones.
Easton	Talbot	35	40	75.0	+6.4	97	1	45	28	37	0.40	-2.60	0.24	0.0	4	14	13	3	sw.	Clement E. Bray.
Elkton	Cecil	28	4	72.7		95	16	39	29	38	1.26		0.47	0.0	8	17	10	3	sw.	H. W. Bouchella.
Emmitsburg	Frederick	720	62	72.6	+6.6	95	1	46	29	30	2.19	-1.42	1.42	0.0	7	16	11	3	w.	Mt. St. Mary's College.
Fallston II	Harford	450	61	74.2	+8.2	96	1	45	29	32	2.62	-1.42	1.46	0.0	8	11	15	4	sw.	Miss Dora Curtiss.
Ferry Landing II	Calvert	110	14	74.3	+6.7	97	1	46	28	34	1.02	-2.47	0.87	0.0	6	15	11	4	se.	Thos. J. Bourne.
Frederick	Frederick	275	56	75.3	+8.0	102	1	45	29	37	0.58	-2.67	0.38	0.0	5	15	13	2	sw.	A. T. Brust.
Friendsville	Garrett	1,501	12	65.9	+3.1	90	1	33	29	37	0.58	-1.40	0.65	0.0	7	19	8	3	w.	Joab J. Friend.
Frostburg	Allegany	1,929	29	69.4	+4.7	90	1	40	29	40	1.37	-1.88	0.63	0.0	7	19	9	2	w.	T. F. Lewis.
Grantsville	Garrett	2,365	37	68.9	+2.7	88	1	33	29	38	2.16	-0.70	0.69	0.0	10	11	15	4	sw.	Floyd J. Miller.
Great Falls II	Montgomery	200	41	73.8	+5.9	101	1	41	28	42	0.66	-2.62	0.48	0.0	3	13	15	2	sw.	Chas. E. Sullivan.
Hancock (Tonoloway)	Washington	455	20	69.9	+2.1	95	1	35	29	43	1.65	-1.23	0.61	0.0	7	21	7	2		American Fruit Growers.
Keedysville	do	400	26	74.2	+6.6	100	2	40	29	40	1.59	-1.29	1.19	0.0	7	16	11	3	nw.	J. A. Miller.
Laurel	Prince Georges	320	36	73.9	+6.3	98	1	44	28	36	0.39	-2.95	0.21	0.0	6	19	9	2		Evan G. Chaney.
Lutherville	Baltimore	340	4	72.2		100	1	37	29	45	1.26		0.85	0.0	8	12	14	4	sw.	August W. Clark, P. M.
Maryland Line	do	840	6	72.0		97	1	46	29	29	1.06		0.60	0.0	5	15	11	4	sw.	Chester L. Fulton.
Mechanicville	St. Marys	165	4								0.65		0.44	0.0	4	14	13	3	sw.	Zach S. Graves.
Millington	Kent	27	33	73.6	+5.2	96	1	45	28	35	2.54	-1.04	1.38	0.0	6	21	7	2	s.	Henry L. Higman.
Newburg	Charles	110	5	76.2		100	1	45	28	38	0.57		0.48	0.0	7	14	13	3	sw.	John P. Burdette.
Oakland	Garrett	2,461	31	64.8	+4.1	90	1	33	29	44	1.67	-1.48	0.62	0.0	10	14	10	6	w.	R. E. Weber.
Pleardy	Allegany	900	4	70.4		96	15	39	29	38	0.99		0.44	0.0	3	19	9	2	w.	American Fruit Growers.
Pleasant Hill II	Baltimore	660	6								1.38		0.86	0.0	4	15	11	4	nw.	J. E. Henry.
Pocomoke City	Worcester	37	25								1.26	-1.74	0.83	0.0	3	14	12	4		Wm. H. Dryden.
Princess Anne	Somerset	17	55	74.4	+5.6	97	3	43	28	38	2.16	-0.61	1.67	0.0	6	16	9	5	sw.	James R. Stewart.
Public Landing II	Worcester	10	15																	
Ridgely	Caroline	57	9	75.2	+6.6	97	1	45	28	37	1.01	-2.06	0.43	0.0	8	11	16	3	sw.	Albert White.
Rock Hall	Kent	25	16	75.4	+6.1	97	15	45	28	40	0.26	-3.63	0.21	0.0	5	20	8	2	w.	Charles Judefind.
Salisbury	Wicomico	23	25	76.0	+6.9	99	3	45	28	37	0.99	-2.19	0.65	0.0	4	22	4	4		Homestead Dairy Farms.
Simes (Deep Creek)	Garrett	2,040	3	63.4		85	12	37	29	35	1.35		0.46	0.0	6	13	12	5		C. E. MacMurray.
Solomons	Calvert	120	39	75.8	+4.3	95	3	51	28	31	0.95	-1.70	0.57	0.0	5	10	16	4	se.	Dr. W. H. Marsh.
State Sanatorium	Frederick	1,460	22	72.0	+6.7	94	1	47	29	34	2.32	-1.59	1.42	0.0	7	13	14	3		Dr. V. P. Cullen.
Stevensville	Queen Annes	12	4	75.4		95	25	53	28	28	0.78		0.35	0.0	6	12	14	4	w.	T. R. Price.
Takoma	Montgomery	320	32	74.4	+7.4	96	1	50	29	27	0.89	-2.50	0.73	0.0	4	11	15	4		L. M. Mooers.
Towson	Baltimore	465	18								1.44	-1.54	0.86	0.0	5	8	16	6		Metropolitan District.
Western Port	Allegany	1,000	37	70.2	+3.7	98	1	37	29	42	1.06	-1.52	0.64	0.0	7					Norris Bruce.
Westminster	Carroll	770	21	73.0	+5.0	98	1	47	28	36	1.72	-2.19	0.80	0.0	7	16	10	4		Prof. S. P. Caltrider.
Woodstock	Baltimore	415	60	72.8	+6.7	100	1	40	28	41	0.42	-3.17	0.20	0.0	3	16	12	3	nw.	Woodstock College.
<i>Dist. of Columbia</i>																				
Washington**		112	60	76.1	+8.0	98	2	62	28	29	0.76	-2.48	0.52	0.0	4	11	15	4	s.	U. S. Weather Bureau.
<i>Delaware</i>																				
Bridgeville	Sussex	45	7	74.7	+6.2	96	1	44	28	37	2.52	-0.46	2.23	0.0	4	17	10	3	sw.	George Ray.
Delaware City	New Castle	12	44	73.6	+5.2	96	6	45	29	36	2.36	-0.86	0.85	0.0	6	12	13	5	s.	James E. Maden.
Dover	Kent	34	41	73.6	+5.2	91	12	49	28	31	4.34	+0.89	3.20	0.0	4	19	9	2	sw.	Arthur G. Livingston.
Millford	Sussex	20	48	74.3	+5.0	96	1	42	28	41	1.32	-2.10	0.90	0.0	7	11	17	2	s.	Chas. J. Holzmueller.
Millsboro	do	20	38	74.0	+5.2	100	3	43	28	41	2.32	-0.68	1.40	0.0	4	15	12	3	sw.	Rev. M. P. S. Huntington.
Wilmington	New Castle	86	37	72.3	+4.1	92	1	50	29	30	3.97	+0.52	3.07	0.0	7	15	11	4	w.	Street and Water Depts.
<i>Means and extremes:</i>																				
For Maryland and District of Columbia																				
For Delaware																				
For entire section																				

The departures from normal temperature and precipitation are computed only for such stations as have 10 or more years of record, but all complete reports are used in determining section or division means. Data in italics determined from surrounding sections. T. Precipitation is less than 0.01 inch rain or melted snow. Reference letters, a, b, c, appearing in the table indicate number of days missing: For example, b represents two days, etc. † 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 Pleasant Hill, Owings Mills; of Public Landing, Snow Hill. \*Also on other dates. \*Custom House, Gay and Water Streets. \*\*Weather Bureau Building, 24th and M Streets.

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SUNSHINE AND CLOUDINESS

At Washington, D. C., 70 per cent of the possible sunshine was recorded; at Baltimore, 71 per cent; at Aberdeen, 62 per cent. For the whole section the average number of clear days was 15; partly cloudy, 12; cloudy, 3.

MISCELLANEOUS PHENOMENA (WITH DATES)

Aurora.—Baltimore and Grantsville, 29.

Fogs, dense.—Darlington, 12, 13; Fallston, 15, 25; Ferry Landing, 1, 9, 13, 15; Frederick, Millington, and on the coast, 15; Grantsville, 9, 10; Millford, 5, 15; Princess Anne, 12.  
 Frost, heavy.—Allegheny Mountain region, 29; little or no damage.  
 Hail, light.—Cheswille, 16.  
 Meteor.—Princess Anne, 9; bright in southwest.  
 Rainbows.—Baltimore, 13, 16; Grantsville, 26.  
 Thunderstorms (not general).—1, 2, 3, 6, 7, 13, 16, 24, 25.  
 Winds, high.—Northwest, 16 (thundergust), 27.

Daily Precipitation for September, 1930

Stations	Watersheds	Day of month																															Total				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
<i>Maryland</i>																																					
Aberdeen**	Atlantic	1.50	.42	.03			T	.13	.05					.38	T		.60	.01							.05											3.17	
Annapolis	do			T	T									.29	T			.01																		0.69	
Baltimore***	do	.06	.02	T	T									.02	T			.04	.01							.01	T								0.37		
Bell	do		T	T	T									.02	T																					0.35	
Boys	do			T	T									.25	T																					0.70	
Cambridge (near)	do			T	T									.15	T				.08																	2.06	
Cecilton	do	1.50	T	T	T									.23	T			.67	T																	0.96	
Cheiltenham	do			T	T									.97	T			.14	.86																	2.81	
Chewsville	do	.46	.01	T											T												.15										
Clear Spring	do																																				
Coleman	do	1.43	.05											.15	T				.48								.02									2.27	
College Park	do			T	T									.35	T			.07	.02								.04									0.91	
Crisfield	do				.08									.10	T																					0.52	
Cumberland	do			T	T									.17	T			.47	T							.16	.09	.03								1.51	
Darlington	do			T	T									.08	T			.94	.40								.09									2.35	
Easton	do	.70	T	T										.11	T			.02																		0.40	
Elkton	do		.34	.03										.05	T			.22	.42	.05							.05									1.26	
Emmitsburg	do	.10	T	T										.22	T			.65	.77							.10										2.19	
Fallston	do	T	1.45	.12										.20	T			.28	.42								.07									2.62	
Ferry Landing	do				.01									.63	T			.19	T																	1.02	
Frederick	do	T	T	T										.08	T			.35	.08																	0.58	
Friendsville	Ohio													.17	T			.10									.65		.40							1.87	
Frustburg	Atlantic			T										.44	T			.58									.10		.07							1.37	
Grantsville	Ohio													.01	T			.35	.34								.55		.15							2.16	
Great Falls	Atlantic			T	T									.48	T			.15																		0.66	
Hancock (Tonoloway)	do	.61	T	T										.07	T			.51	.02									.08								1.65	
Keedysville	do	T		T										.07	T			.28	.96																	1.69	
Laurel	do		.13	T										.01	T			.20	.01																	0.89	
Lutherville	do		.85	.02										.06	T			.01	.10									.01								1.26	
Maryland Line	do			T										.10	T			.40	.20								.25									1.06	
Mechanicsville	do				.11									.13	T			.31	T								.10									0.65	
Millington	do		.54	T										1.38	T			.28	.44																	2.54	
Newburg	do				.20									.26	T			.22	T								.06										0.87
Oakland	Ohio	.10	T	T										.60	T			.10	.38																	1.67	
Picardy	Atlantic		T	T										.15	T			.44																			0.99
Pleasant Hill	do		.86	T										.43	T												.05									1.38	
Pocomoke City	do				.83									.07	T																					1.26	
Princess Anne	do			.18	.08									.07	T			.16																		2.16	
Public Landing	do																																				
Ridgely	do		.04	.08	T									.13	T			.30																		1.01	
Rock Hall	do		.01	T										.03	T			.20																		0.26	
Salisbury	do				.65									.18	T			.05																		0.99	
Sines**	Ohio			T										.07	T			.12																		1.35	
Solomons	Atlantic				.57									.06	T			.22																		0.95	
State Sanatorium	do	.06	T	T										.13	T			.41	T								.13									2.32	
Stevensville	do		.02	.03	T									.10	T			.10																		0.78	
Takoma	do			T	T									.02	T			.73										.02								0.89	
Towson	do		.86	T										.25	T			.17										.01								1.44	
Western Port	do			T										.62	T			.02																		1.06	
Westminster	do	.30	.50	T										.12	T			.17									.06									1.72	
Woodstock	do		.20	T										.12	T			.12																		0.42	
<i>District of Columbia</i>																																					
Washington***	Atlantic		T	T										.03	T			.52																		0.76	
<i>Delaware</i>																																					
Bridgeville	Atlantic		T	T	T									.19	T			.05	T																	2.52	
Delaware City	do		.35	T										.50	T			.35																		2.86	
Dover	do		.33	T										.80	T			.40	T																	4.34	
Milford	do		.08	.25	T									.82	T			.08																		1.92	
Millsboro	do		T	T	.02									.90	T			.27																		2.32	
Wilmington	do		.16	.15										.47	T			2.60																		3.97	

Except as otherwise indicated, observations are generally made late in afternoon, near sunset, and precipitation recorded is for the 24 hours ending at time of observation.  
 \*\*Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight. \*Precipitation is for 24-hour period, midnight to midnight.  
 |||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*Precipitation included in the next following measurement.  
 T, Trace, or less than 0.01 inch. Data in italics determined from surrounding stations.

COMPARATIVE DATA FOR MARYLAND AND DELAWARE FOR SEPTEMBER

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	70.6	+3.1	101	27	2.64	-1.22	5.90	0.24	4.80	T	4	1913	66.5	-0.7	102	22	2.83	-0.43	5.31	1.32	3.26	0.0	7
1896	66.6	-0.9	98	29	4.33	+1.07	8.07	1.13	4.50	0.0	7	1914	64.3	-2.7	98	21	0.93	-2.33	3.09	0.40	1.36	0.0	4
1897	66.8	-0.7	100	22	1.88	-1.38	3.37	0.50	2.17	0.0	3	1915	69.4	+1.9	99	31	2.06	-1.20	5.19	0.43	3.10	0.0	6
1898	69.5	+2.0	100																				

Daily Temperatures for September, 1930

Table with columns for Stations, days 1-31, and Mean. Rows list various Maryland and Delaware locations such as Aberdeen, Annapolis, Baltimore, etc., with their respective maximum and minimum temperatures for each day.

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from record. §Instruments are read in morning; maximum temperature then read is charged to preceding day in which it almost always occurs. Temperatures at Aberdeen, Baltimore, and Washington are from midnight to midnight; other stations, except Cumberland, are for 24-hour period ending late in afternoon, near sunset. Data in italics determined from surrounding stations. (WB-11-1-30-950)