

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

CHARLES F. MARVIN, Chief

In Cooperation with Maryland State Weather Service

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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PRICE: 5 CENTS A COPY; 50 CENTS A YEAR

VOL. XXXVI BALTIMORE, MD., JULY, 1931

No. 7

GENERAL SUMMARY

This month was featured by very warm weather, but without any typical hot waves; unusual frequency of summer showers in the western and north-central divisions; thunderstorms in excess of the normal number; and local damage by lightning, thundergusts, hail, and sudden, heavy downpours of rain. Up-rooted trees in falling parted communication and electric light wires.

Monthly mean temperature was 0.5° warmer than in July, 1930, and the highest in July since 1921. Monthly rainfall was mostly abundant to westward of Chesapeake Bay, but deficient generally on the Eastern Shore. Monthly sunshine was slightly above normal, while relative humidity averaged normal. The 3d-4th and 10th were cool. The warmest spell was 28th-31st. Successive clear days were 11-14th and 25-28th. A severe thundergust passed over the central and western divisions on the 1st. Rainfall was unusually heavy on the 10th in the northern Chesapeake Bay region, with totals 3 to 5 inches. A small tornado passed over the east end of Oakland on the 16th.

Crops made rapid progress. They were good to excellent and grasses and pastures were fair to good, except affected somewhat adversely by the heat and lack of rain during the third decade on the Eastern Shore and in southern Maryland, where streams and wells became low. Corn tasseled and silked; sweet potatoes vined heavily; tobacco bloomed; and haying was in progress. During the first decade harvesting of strawberries ended in Washington and Allegany Counties and of peas between Chesapeake Bay and the Allegheny Mountains. On the Eastern Shore and in southern Maryland harvesting of wheat and rye ended during the first week and oats were harvested in the first and second decades; in north-central Maryland and in Washington and Allegany Counties wheat and rye were harvested during the first and second decades and oats during the second and third. Wheat, rye, barley, and oats yielded good to very good. In the Allegheny Mountain region harvesting of strawberries ended during the second week; wheat and peas were harvested during the second half of the month; oats and tomatoes were ripening and digging of early potatoes began during the third decade. Elsewhere over the section harvesting of early potatoes and early tomatoes began during the first decade; of early varieties of apples, peaches, and pears during the second; and of sugar corn and cantaloupes during the third.—J.B., jr.

PRESSURE

The monthly mean sea-level pressure at Washington, D. C., was 29.93; at Baltimore, 29.91; at Aberdeen, 29.92 inches. The highest at Washington, D. C., was 30.14 on the 12th; at Baltimore, 30.14, and at Aberdeen, 30.15 inches—both on the 13th. The lowest at Washington, D. C., and at Baltimore, was 29.55 inches—both on the 21st; at Aberdeen, 29.57 inches on the 22d.

TEMPERATURE

The monthly mean for the section, 77.6°, is 2.4° above normal. The highest monthly mean was 81.0° at Baltimore; the lowest, 69.6°, at Sines. The highest temperature, 103°, occurred at Cumberland on the 1st; the lowest, 44°, at Sines on the 26th. The greatest local monthly range was 50° at Hancock and Sines; the least, 31°, at Crisfield. The greatest daily range was 42° at Oakland on the 27th and at Western Port on the 26th.

PRECIPITATION

The monthly average for the section, 4.53 inches, is 0.32 inch above normal. The greatest monthly amount was 8.48 inches at Keedysville; the least, 1.95 inches, at Pocomoke City. The greatest 24-hour amount was 4.42 inches at Rock Hall on the 9-10th. The number of days with 0.01 inch or more, 12, is 2 above normal.

RELATIVE HUMIDITY

The average percentages were: Washington, D. C., 8 a. m., 78; 12 noon, 54; 8 p. m., 71. Baltimore, Md., 8 a. m., 71; 12 noon, 50; 8 p. m., 64. Aberdeen, Md., 8 a. m., 85; 4 p. m., 68. Philadelphia, Pa., 8 a. m., 74; 12 noon, 54; 8 p. m., 62.

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 2,844; at Baltimore, 5,280; at Aberdeen, 3,906 miles. The maximum velocity at Washington, D. C., was 32 miles from the east on the 1st; at Baltimore, 50 miles from the northeast on the 1st; at Aberdeen, 30 miles from the northwest on the 15th.

SUNSHINE AND CLOUDINESS

At Washington, D. C., 69 per cent of the possible sunshine was recorded; at Baltimore, 66 per cent; at Aberdeen, 61 per cent. For the whole section the average number of clear days was 15; partly cloudy, 11; cloudy, 5.

MISCELLANEOUS PHENOMENA (WITH DATES)

Hail, heavy.—On 15th: Kent (Md.) County, between Chesapeake Bay and Worton; 1 inch in diameter and larger; damage to crops, \$25,000 to \$30,000. Anne Arundel County, 3 miles northwest of Davidsonville, $\frac{1}{2}$ inch in diameter; damage to crops about \$1,000. Charles County, near Rock Point, considerable tobacco ruined. On 16th: Washington County, Halfway, St. James, Downsville, and Gapland districts; size of marbles to golf balls and hen eggs; many windows shattered; roofs damaged; crops heavily damaged; damage by hail in this area was the heaviest since the storm of June 6, 1917. On 23d: Frederick County, Unionville, New London, and Ridgeville districts; no estimate of crop loss. Washington County, Parkhead to Fairview; size of marbles for 15 minutes; apple and peach crops heavily damaged. On 24th: Frederick County, Point of Rocks to Buckeystown, 1 inch to 5 inches in diameter; many windows shattered; roofs damaged; loss of crops and tree fruit about \$20,000; worst hailstorm ever experienced here.

Lightning, damaged or fired.—On 1st: Home in Baltimore; church steeple at Chestertown; several homes at Washington, D. C. On 15th: Building and church steeple at Washington, D. C. On 17th: Barn, contents, nearby shed and outbuilding at Morgan, near Lisbon; loss, \$3,500. On 20th and 29th:

(Continued on page 26)

Climatological Data for July, 1931

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
Maryland																				
Aberdeen	Harford	80	13	78.0	+3.0	97	1	59	26	31	4.79	+0.06	3.10	0.0	13	10	11	10	s.	U. S. Army.
Annapolis	Anne Arundel	45	66	78.8	+1.1	96	30	64	13	25	7.37	+2.84	3.35	0.0	12	13	13	5	sw.	Louis E. Foster.
Baltimore*		115	61	81.0	+3.8	101	1	67	11	25	6.04	+1.40	1.68	0.0	14	10	14	7	sw.	U. S. Weather Bureau.
Bell II	Prince Georges	151	11	77.6	+2.1	97	1	56	26	36	3.60	-0.08	0.71	0.0	15	15	11	5	sw.	Bureau Plant Industry.
Boysds	Montgomery	375	12	76.8	+1.4	98	29	56	11	37	4.90	+1.94	1.35	0.0	16	18	9	4	s.	Ralph F. Staley.
Cambridge (near)	Dorchester	25	38	78.8	+0.8	96	1	56	26	32	3.19	-1.26	0.72	0.0	9	17	9	5	sw.	Matt Harding.
Cecilton	Cecil	85	13	78.2	+2.3	98	1	60	26	29	3.23	-1.94	0.71	0.0	11	18	6	7	sw.	James Reese Short.
Cheltenham	Prince Georges	230	31	78.2	+2.5	99	1	58	26	31	7.78	+3.48	2.75	0.0	11	13	13	5	sw.	Geo. Hartnell.
Chesville	Washington	530	34	76.4	+2.3	97	1	56	11	30	7.84	+3.98	1.84	0.0	17	14	14	3	sw.	D. Paul Oswald.
Clear Spring	do	600	34											0.0						Mrs. Leo A. Cahill.
Coleman II	Kent	80	34	78.7	+2.1	100	1	64	11	30	6.88	+2.34	3.05	0.0	10	18	8	5	sw.	Walter B. Harris.
College Park	Prince Georges	87	46	78.6	+3.3	99	29	57	11	36	3.33	-0.78	0.65	0.0	15	15	11	5	sw.	Prof. Thos. H. White
Crisfield	Somerset	5	12	79.6	+2.6	95	30	64	15	24	4.73	+0.22	1.59	0.0	7	15	13	3	s.	A. B. Cochran.
Cumberland	Allegany	623	59	79.4	+5.3	103	1	54	12	36	6.31	+3.09	1.21	0.0	15	17	11	3		Harvey H. Weiss.
Darlington	Harford	300	41	77.4	+2.8	98	1	57	26	32	4.35	-0.12	1.25	0.0	8	11	16	4	sw.	Fred. C. Jones.
Easton	Talbot	35	41	79.4	+3.3	98	30	58	26	32	3.08	-1.21	1.01	0.0	10	19	8	4	sw.	Clement E. Bray.
Elkton	Cecil	28	5	77.8		99	1	56	26	35	3.45		1.79	0.0	10	18	8	5	sw.	H. W. Bouchelle.
Emmitsburg	Frederick	720	63											0.0						Mt. St. Mary's College.
Fallston II	Harford	450	62	77.0	+3.0	96	1	60	11	29	3.71	-0.79	1.03	0.0	14	10	18	3	sw.	Miss Dora Curtiss.
Ferry Landing II	Calvert	110	15	77.0	+1.3	100	1	58	11	31	4.27	-1.30	1.76	0.0	10	14	11	6	sw.	Thos. J. Bourne.
Frederick	Frederick	325	57	80.0	+3.6	102	1	59	11	32	4.57	+0.63	1.27	0.0	11	18	10	3	sw.	August T. Brust.
Friendsville	Garrett	1,501	13	72.1	+3.3	94	2	47	13	39	5.08	+1.13	2.76	0.0	12	13	14	4		Joab J. Friend.
Frostburg	Allegany	1,929	30	75.8	+4.3	98	1	50	12	35	3.51	-0.33	1.68	0.0	9	16	12	3	w.	T. F. Lewis.
Grantsville	Garrett	2,351	38	70.6	+2.8	92	2	45	11	39	6.68	+2.51	1.88	0.0	17	10	16	5	sw.	Floyd J. Miller.
Great Falls II	Montgomery	200	42	77.8	+2.2	99	1	58	11	34	4.57	+0.65	1.70	0.0	14	16	11	4	sw.	Chas. E. Sullivan.
Hancock (Tonoloway)	Washington	455	21	77.3	+2.9	100	1	50	12	40	3.99	+0.49	1.52	0.0	15	18	11	2		American Fruit Growers.
Hancock (City)	do	421	7								4.13	+0.63	1.06	0.0	13					William R. Murray.
Keedysville	do	400	27	78.3	+2.7	99	1	56	11	33	8.48	+4.87	3.17	0.0	16	16	12	3	s.	J. A. Miller.
La Plata	Charles	190	11	77.6	+2.0	98	1	59	26	29	7.62	+4.28	2.15	0.0	14	14	12	5	s.	Walter M. Page.
Laurel	Prince Georges	320	37	77.1	+1.8	97	11	58	13	30	3.92	-0.44	0.91	0.0	16	14	12	5		Evan G. Chaney.
Lutherville	Baltimore	340	5	77.1		101	1	55	12	38	3.35		1.12	0.0	12	16	9	6	sw.	August W. Clark, P. M.
Maryland Line	do	840	7	77.0		98	1	59	11	29	2.51		0.46	0.0	11	18	10	3	sw.	Chester L. Fulton.
Mechanicsville	St. Marys	165	5								6.25		2.20	0.0	11	15	11	5	sw.	Zach S. Graves.
Millington	Kent	27	34	78.2	+2.1	98	1	58	26	31	4.38	-0.41	2.08	0.0	11	18	6	7	sw.	Henry L. Higman.
Oakland	Garrett	2,461	32	71.4	+4.6	93	1	45	11	42	3.51	-1.09	1.50	0.0	12	10	18	3	w.	R. E. Weber.
Parkton	Baltimore	780	1	77.2		98	11	59	11	30	4.4			0.0						C. B. Cornell.
Picardy	Allegany	900	5	77.0		97	1	54	12	34	4.76		1.56	0.0	11	16	13	2	w.	American Fruit Growers.
Pleasant Hill II	Baltimore	660	7								4.14		1.30	0.0	12	19	8	4	sw.	J. E. Henry.
Pocomoke City	Worcester	37	26								1.95	-1.52	0.60	0.0	8	15	13	3		Wm. H. Dryden.
Princess Anne	Somerset	17	56	76.6	+0.6	94	30	57	26	29	4.98	+0.67	1.52	0.0	10	13	16	3	sw.	James R. Stewart.
Ridgely	Caroline	57	10	79.2	+3.0	98	1	58	26	36	2.43	-2.03	0.60	0.0	8	13	14	4	sw.	Albert White.
Rock Hall	Kent	25	17	78.7	+1.9	99	1	58	26	35	7.29	+2.81	4.42	0.0	9	16	11	4	s.	Charles Judefind.
Salisbury	Wicomico	23	26	79.5	+2.8	97	30	59	26	30	2.44	-1.48	0.77	0.0	7	18	9	4	sw.	Homestead Dairy Farms.
Sines (Deep Creek)	Garrett	2,040	4	69.6		94	30	44	26	41	4.41		1.59	0.0	15	9	18	4		C. E. MacMurray.
Solomons	Calvert	20	40	80.0	+2.0	99	1	64	12	27	6.26	+2.16	2.40	0.0	9	16	9	6	sw.	Wm. H. Goeshy.
State Sanatorium	Frederick	1,460	23	77.2	+3.7	97	1	60	11	28	6.17	+2.21	1.15	0.0	13	18	8	5		Dr. V. F. Cullen.
Stevensville	Queen Annes	12	5	79.6		98	1	62	11	29	5.75		1.80	0.0	11	12	15	4	sw.	T. R. Price.
Takoma	Montgomery	320	33	78.4	+3.4	96	1	62	12	24	2.51	-1.65	0.53	0.0	14	10	13	8		L. M. Mooers.
Towson	Baltimore	465	19								4.30	+0.75		0.0	12	10	14	7		Metropolitan District.
Western Port	Allegany	1,000	38	77.1	+3.8	100	1	51	11	42	3.78	+0.10	0.72	0.0	15					Norris Bruce.
Westminster	Carroll	770	22	77.0	+1.9	96	14	59	26	30	4.24	+0.30	1.12	0.0	16	20	7	4		Prof. S. P. Catrider.
Woodstock	Baltimore	415	61	78.0	+2.8	98	11	56	26	36	4.56	+0.58	1.60	0.0	12	17	9	5	sw.	Woodstock College.
Dist. of Columbia																				
Washington**		112	61	79.6	+2.9	97	129	64	26	27	4.23	-0.48	1.26	0.0	16	10	13	8	sw.	U. S. Weather Bureau.
Delaware																				
Bridgeville	Sussex	45	8	78.6	+2.7	97	15	57	26	35	2.63	-2.64	1.26	0.0	9	17	12	2	sw.	George Ray.
Delaware City	New Castle	12	45	79.1	+2.5	98	11	61	26	29	2.92	-0.74	1.00	0.0	13	16	8	7	sw.	James E. Maden.
Dover	Kent	34	42	79.4	+2.8	99	1	60	26	32	2.73	-1.91	1.10	0.0	12	18	7	6	sw.	Arthur G. Livingston.
Milford	Sussex	20	49	79.9	+3.3	100	1	55	26	38	3.07	-1.46	1.13	0.0	11	17	11	3	sw.	Chas. J. Holzmueller.
Millsboro	do	20	39	79.4	+3.2	100	11	57	26	35	2.12	-2.55	0.70	0.0	6	15	14	2	s.	G. L. Ellis.
Wilmington	New Castle	86	38	77.2	+0.9	97	1	60	4	29	5.24	+0.17	2.37	0.0	13	14	8	9	s.	Street and Water Depts.
Means and extremes:																				
For Maryland and District of Columbia.				77.5	+2.5	103	1	44	26	42	4.70	+0.54	4.42	0.0	12	15	11	5	sw.	
For Delaware				78.9	+2.2	100	11	55	26	38	3.12	-1.52	2.37	0.0	11	16	10	5	sw.	
For entire section				77.6	+2.4	103	1	44	26	42	4.53	+0.32	4.42	0.0	12	15	11	5	sw.	

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. § Prettyboy Dam.
 ** 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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Some homes at Baltimore and Dundalk. On 23d: Barn and contents at Unionville; loss \$5,000. On 29th: Barn and contents at Carney.

Lightning, killed.—On 1st: Man and horse near Ednor. On 9th: Man 8 miles east of Cumberland; oyster man at Salisbury. On 15th: Five cows near Davidsonville. On 16th: Hog near Clear Spring; bull near Roxbury.

Thunderstorms.—1, 2, 3, 5, 6, 7, 9, 10, 11, 12, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 29, 30.

Tornado (small twister).—On 16th: Eastern edge of Oakland; between 3 p. m. and 4 p. m.; from north; path not over 1/2 mile wide; path of destruction about 200 yards wide; trees blown down, mostly to south, but some tangled; damage to buildings about \$300.

Winds, high (thundergusts).—On 1st: Central and western divisions; from northeast; gale to near-hurricane force; brief duration; blew down many trees; caused some property damage locally; blew in three plate-glass windows at Baltimore; overturned flour mill and unroofed several houses at Benevola; unroofed church at Boonsboro; blew off some shutters, shattered some windows, and damaged several barns at Harrisonville; tore loose metal cover over a runway, damaging six new automobiles, at Washington, D. C. On 15th: Wrecked airplane at Washington, D. C., Airport; wrecked two tobacco barns, wooden silo, and henhouse near Davidsonville, loss \$4,000; caused slight property damage near Chapel Point, Faulkner, and Tompkinsville. On 23d: Partly unroofed church at Parkhead.—J. B., Jr.

Daily Precipitation for July, 1931

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		
Maryland																																		
Aberdeen**	Atlantic	T.	T.	...	.13	.02	.40	.21		1.17	1.93		T.			T.		T.			.12	.07	.04	.27	.03						.39	.01	...	4.79
Annapolis.	do	T.	1.15	T.	1.34		.12	.57		T.	3.35		T.	.09		.02	.04	.07		T.	.04			.12	.07	.04	.27	.03				.34	T.	7.37
Baltimore***	do	.32	.02		1.17	.11	1.34	T.		.07	.71	T.					.33	.42	.03		1.68	T.	.20	T.	.08	.02				.28	T.	6.04		
Bell	do		.51	.15	.07		.26	.61		.02	.69		.11			.02	.16	.42	.08			.69	T.	.02	T.	.31				.17	T.	3.60		
Boysd.	do	1.35	T.	T.	.01		.98	.34		.01	.01	T.				.32	.38	.33	.10		.69	T.	.01	.12	.07					.15	.54	T.	4.90	
Cambridge (near)	do		T.	T.	*		.30	.06		T.	.65	T.					.10	T.						.57	.11	*	T.	.02	1.72		.71	.03	3.19	
Cecilton.	do	.55	.80	T.	T.		T.	2.75		.06	1.22		.11			T.	.69	.25	.02	.14		T.	T.	T.	.02	1.72				T.	T.	7.78		
Cheltenham.	do	.72	.50	T.	1.00		.12	.06		1.73	.11					.02	.50	.43	.27		.44	1.15	.24	T.	.16	T.			.35		.04	7.84		
Chewsville	do																																	
Clear Spring	do	.89	T.	T.	.17		.20	.57		T.	3.05		T.			.65					.18	T.	.35	T.	.27					.55	T.	6.88		
Coleman	do	.44	.03	.06			.08	.38		T.	.47		.14		.09	.31	.65		.11		T.	.05	.05	T.	.35					.12	T.	3.33		
College Park	do	.02		.30			.70	.30		.60	1.59		.34			.18																	4.78	
Crisfield	do	T.	1.21	.08	T.		.01	.28		T.	.68	1.07				.08	T.	.27	1.20		.09	.02	1.10	T.	T.	.12				.06	.04	6.31		
Cumberland	do	.04	T.	T.	*		.44	.22		T.	1.22		T.								.33	T.	T.	T.	.85					1.25	T.	4.35		
Darlington	do	T.	T.		.40		.20	1.01		T.	.33		.29			.40	.06		.04											.15	T.	3.08		
Easton	do	T.	T.	T.	.03		.22	.34		T.	1.79		T.								.12	.48	.05	T.	.18				.02	.22	T.	3.45		
Elkton	do	.02	.01	.19	.10		.42	.24		T.	.69		T.			.25		.02	T.		.89	.14	.01	T.	.05					.68	T.	3.71		
Fallston	do	.13	T.	T.			.05	.73		T.	1.76		T.			.04	.74	.06	T.						.23					.25	T.	4.27		
Ferry Landing	do	1.27	T.	.24			T.	.17		T.	1.23		T.			.27	1.00	.05			.29	.48	T.	.25	.17	T.				.78	*	.33	5.08	
Frederick	Ohio	T.	*	.38	T.		.25	T.		1.53	1.23		T.			.13	.17	T.	T.		T.	.10	T.	T.	.18	T.				.06	T.	3.51		
Friendsville	Atlantic	T.	.09	1.58	T.		T.	T.		T.	1.06		T.			.25	T.	.24			T.	.09	T.	.07	T.	.07				.12	T.	.08	6.68	
Frostburg	Ohio	T.	1.82	.06	1.58	T.	.18	T.		.12	1.23					.05	.76	.04	.04		.06	.40	.05	.04	T.	.05				.12	T.	4.57		
Grantsville	Atlantic		.42	T.	.43		.04	1.70		.30	1.40	.25	.02			.04	.12	.65			.48	.06	T.	.05	.15					.10	T.	3.99		
Great Falls	do		.12	.07	.09		.62	.07		.30	1.22		.86			T.	T.	.68	.40		.11	.03	.06	T.	.05	.87			.03	.11	T.	4.13		
Hancock (Tonoloway).	do						.21	T.		.35	.12		.86			.44	.52	.53	.20		.47	.20	.46	.02	T.	.30			.15	.06	.02	8.48		
Hancock (City)	do		1.70	T.	.09		.05	2.15		T.	2.08		1.03			.41	.12	.06	.12			.20	.95	T.	.22					.09	T.	3.92		
Kedysville	do		.28	.06	.05		.21	.57		.2	2.08		1.03			.41	.12	.06	.12			.20	.95	T.	.22					.09	T.	3.92		
La Plata	do	.42	.02	T.	.14		.39		.02	.60		*			T.	.61	.30	.09	T.		.89	.06	.02	T.	.22					.14	T.	3.92		
Lutherville	do	.06	T.	.08	.70		.14	.34		T.	.65		T.			.05	T.				1.08	.04	T.	.02	.10					.14	T.	3.35		
Maryland Line	do	T.	T.	T.	.42		.32	.05		T.	.33		T.			.46	T.	.05	T.		.25	.08	T.	*	*	*				T.	.55	T.	2.51	
Mechanicsville	do		.01	T.	*		* 1.04			T.	1.35		.40			*	*		.25				*	2.20	*					T.	1.00	T.	6.25	
Millington	do	.97	T.	T.	.10		.48			T.	2.08		T.			.05	T.				.26	T.	.09	T.	.20					.11	.04	4.38		
Oakland	Ohio	.01	T.	T.	.20		.06	T.		.08	1.42					T.	1.06	T.			.02	.33	T.	.07	T.	T.			.05	.03	.18	3.51		
Parkton	Atlantic																																	
Picardy	do		.90	*	*		.51	T.		*	.75					T.	.45	.60	.96		.33	.26	T.	T.	.13	.08				T.	.10	10	4.76	
Pleasant Hill	do	.40	T.	T.	1.30		.25	.10		.17	.15		T.			T.	T.	.11			1.10	T.	T.	.05	.31					T.	.10	10	4.14	
Pocomoke City	do		.03				.60	.33		T.	.85		T.			.05	.06	.03							.50								1.95	
Princess Anne	do	.08			.08		.70	.30		1.52	1.40		.12			T.	.05	T.		.28					.45								4.98	
Ridgely	do	T.	T.		.55		.05	.50		T.	.26		.11			.18			T.						.18					.60	T.	2.43		
Rock Hall	do	T.	.41	T.	.60		* 74			T.	4.42		T.			.02	T.		T.		T.	T.	.20		.27					.63	T.	7.29		
Salisbury	do	.02	T.	T.			.40	.12		.60	.35		.18			T.	T.	T.							.77					T.		2.44		
Sines**	Ohio	.03	.12	.07	T.		.34	T.		.08	1.59		.45			.09	.92	T.	T.		.29	.29	T.	.02	.04					.33	.16	.04	4.41	
Solomons	Atlantic		.82	.05	1.15		.75	1.14		T.	2.40		.45			.35		T.						.50						.05	T.	6.26		
State Sanatorium	do		.82	.05	1.15		.75	1.14		T.	2.40		.45			.35		T.						.50						.05	T.	6.26		
Stevensville	do	1.20	T.	T.	1.50		.25	.52		T.	1.80		.02			.60	.30	.10	T.		.22	.50	.25	T.	.65	T.			.30	.06	T.	6.17		
Takoma	do		.53	T.	.03	T.	.05	.31		T.	1.00	.45	.03			.16	.29	.26	.16				.03	.07	.21					.08	T.	5.75		
Towson	do		.11	.09	.80		.40	T.		.22	.65	.02	T.			.05	.35	.07	.05		.61	.91	.03	.02	T.	T.			.30	.10	4.30			
Western Port	do	T.	T.	.55	.75		.40	T.		.22	.65	.02	T.			.05	.35	.07	.05		.51	.10	T.	.08	.05	.09				T.	.47	T.	4.24	
Westminster	do	.05	.07	T.	1.12		.07	.17		.02	1.66		T.			.17	.01	.20	T.		.60	T.	.05	.20						.23	.10	4.56		
Woodstock	do	.54	T.	.66			.13	.21		T.	.69		T.			.07	T.		.08		1.60	T.	.05	.20										
District of Columbia																																		
Washington***	Atlantic	.79			.14	.06	.31			.02	1.24	.53			.13	.26	.13	.06	.14		.01	T.	.02	.30	T.					.09	T.	T.	4.23	
Delaware																																		
Bridgeville	Atlantic	T.	T.		.31		.16	.30	T.		1.20	.06	T.			.04					.13				.26					.17		2.63		
Delaware City	do	T.	.30	T.	.05		.10	.20	.10		.60	.40	T.						.05	.45	T.	*	.55		.07	T.				.05	T.	2.92		
Dover	do	T.	.19		.03		.14	.07	.03		.80	.07	T.						.05	.07	.04				.13					.11	T.	2.73		
Milford	do	1.00	.13		.20		.55	.33	.40		.30	.05	.05												.02					.04		3.07		
Millsboro	do	.40	T.		.37		.18	.35	T.		.12	T.	T.												.70					T.		2.12		
Wilmington	do	T.	T.	.05	.05		.37	.07	T.		* 2.37	T.	T.				*	1.02	T.		.10	.15			.70				.07	T.	5.24			

Daily Temperatures for July, 1931

Stations	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	Mean	
Maryland																																	
Aberdeen	Maximum	97	82	82	81	85	84	86	91	85	77	86	85	86	91	96	92	91	88	87	91	88	86	83	85	87	90	92	93	93	89	87.6	
Aberdeen	Minimum	66	70	69	69	67	70	71	67	69	65	62	63	62	74	72	71	69	72	73	73	75	66	67	63	69	60	70	70	73	74	68.4	
Annapolis	Maximum	94	82	82	79	83	84	88	88	87	88	82	84	85	91	93	92	96	90	88	90	88	87	86	82	83	84	91	89	89	96	92	87.3
Annapolis	Minimum	70	71	64	69	68	72	72	71	70	69	64	64	65	75	73	70	72	73	74	75	77	72	70	69	65	65	66	73	74	71	71	70.2
Baltimore (U. S. W. B.)	Maximum	101	83	80	78	85	88	90	94	84	84	77	87	88	87	98	96	92	89	91	87	89	92	90	90	87	87	90	94	95	98	97	92.5
Baltimore (U. S. W. B.)	Minimum	76	72	71	70	70	70	75	75	72	69	67	68	67	74	76	75	77	72	74	75	75	71	69	73	68	70	75	75	76	79	72	70.5
Bell	Maximum	97	96	82	77	85	89	88	90	89	77	85	83	87	95	94	90	88	89	92	93	89	89	85	85	88	93	96	94	94	94	89.2	
Bell	Minimum	65	67	63	69	63	70	69	66	67	68	58	59	57	68	69	69	67	69	70	75	72	66	64	61	56	57	61	69	72	74	66.0	
Boyd's	Maximum	97	82	81	75	82	89	87	90	89	76	85	84	84	96	94	91	88	89	94	87	89	88	86	85	87	93	95	98	94	90	88.2	
Boyd's	Minimum	66	65	66	65	63	69	72	66	68	67	56	59	56	66	67	65	66	70	74	69	66	62	63	66	56	56	64	65	70	70	65.3	
Cambridge (near)	Maximum	96	87	84	79	87	90	90	92	88	79	86	87	86	91	92	93	91	95	92	90	92	89	90	84	86	88	90	94	91	94	89.2	
Cambridge (near)	Minimum	67	71	65	68	62	72	73	68	69	72	65	64	63	73	72	69	68	70	72	70	76	71	70	67	65	66	71	70	68	70	65.5	
Cecilton	Maximum	98	81	78	80	84	89	87	91	87	79	84	83	86	90	94	91	91	90	86	85	91	89	88	83	84	88	90	94	94	95	92	87.8
Cecilton	Minimum	69	69	66	66	66	70	73	69	72	69	65	65	62	71	70	69	66	70	72	68	75	69	69	68	65	60	63	71	69	72	72	68.5
Cheltenham	Maximum	99	96	85	78	84	90	89	92	90	79	84	85	86	93	93	93	88	88	89	92	92	89	89	86	85	89	91	93	95	95	90	89.3
Cheltenham	Minimum	69	68	66	70	63	71	70	66	68	66	59	59	59	71	70	68	68	70	70	72	73	68	63	64	66	68	70	72	75	75	67.2	
Chewsville	Maximum	97	88	84	79	82	87	90	91	84	72	81	83	85	93	90	90	88	86	91	89	88	85	86	86	83	88	92	91	93	89	87.1	
Chewsville	Minimum	68	68	68	68	67	69	70	65	63	64	56	56	59	71	70	64	66	69	68	73	67	64	64	63	57	59	66	68	71	71	65.7	
Coleman	Maximum	100	83	80	83	87	88	86	93	88	80	83	89	88	91	92	88	87	87	85	88	91	87	83	89	87	90	93	92	92	89	88.3	
Coleman	Minimum	70	68	65	67	67	69	74	71	72	65	64	66	65	70	69	71	72	71	70	72	67	71	67	67	65	65	73	73	70	73	69.1	
College Park	Maximum	98	96	86	79	85	89	90	92	89	78	85	85	87	95	94	90	88	89	91	91	93	89	87	85	89	93	96	97	91	90	90.0	
College Park	Minimum	66	69	66	71	64	71	72	67	67	68	61	61	57	67	69	68	69	70	75	72	68	66	65	64	67	67	66	69	72	76	67.1	
Crisfield	Maximum	91	89	83	77	84	84	86	88	90	80	83	85	88	89	91	92	88	86	88	90	92	90	88	86	88	87	89	92	91	95	92	87.8
Crisfield	Minimum	72	71	65	67	64	64	70	70	74	74	68	68	68	75	77	73	75	75	76	72	77	73	76	73	64	65	75	75	75	78	71.4	
Cumberland	Maximum	103	99	94	89	83	93	93	97	88	80	87	89	93	98	93	98	93	90	99	95	89	90	88	89	89	91	94	100	98	99	96	92.8
Cumberland	Minimum	70	70	68	70	70	71	70	64	65	65	56	54	58	66	73	71	67	68	68	70	69	67	69	63	61	56	58	64	71	74	66.1	
Darlington	Maximum	98	82	79	85	86	85	86	92	82	80	86	85	86	92	95	90	88	90	87	90	91	90	88	87	90	87	90	93	96	95	88.5	
Darlington	Minimum	66	70	67	68	66	68	66	65	71	67	62	61	58	62	70	70	62	65	64	70	71	67	68	67	69	57	59	68	72	71	62.6	
Easton	Maximum	97	88	84	78	86	90	91	92	92	81	85	86	88	93	95	92	92	91	91	91	94	89	90	86	87	90	92	95	98	93	90.1	
Easton	Minimum	68	70	67	66	64	70	74	70	71	69	65	63	62	72	69	72	70	72	73	70	76	71	69	68	62	58	63	75	71	70	69.7	
Elkton	Maximum	99	86	80	83	80	88	88	91	87	79	84	86	89	92	96	92	92	90	88	89	93	89	88	87	86	91	95	97	97	92	89.2	
Elkton	Minimum	66	68	66	66	66	69	69	65	72	68	60	62	57	67	67	68	62	69	71	68	72	67	68	67	63	58	69	68	72	69	66.3	
Fallston	Maximum	96	81	79	78	82	84	86	91	88	78	83	84	85	91	91	89	88	89	85	86	91	86	88	87	84	89	91	95	94	94	90	87.2
Fallston	Minimum	69	68	64	65	65	65	72	67	69	66	60	61	63	69	67	69	69	69	70	72	65	67	65	61	61	62	71	69	69	72	66.8	
Ferry Landing	Maximum	100	84	84	76	78	90	88	93	84	79	84	86	81	91	94	94	85	87	92	88	91	88	88	81	79	88	90	85	90	94	87.1	
Ferry Landing	Minimum	69	68	66	65	64	70	70	67	69	65	61	58	58	71	68	66	67	69	72	72	74	69	66	64	62	59	64	69	70	75	67.0	
Frederick	Maximum	102	99	86	83	87	91	92	95	91	83	87	89	91	100	96	95	93	91	96	92	92	90	92	89	86	91	93	97	98	97	92.2	
Frederick	Minimum	72	70	67	70	66	70	70	67	70	67	59	59	59	68	73	70	69	70	71	71	74	68	66	69	65	68	69	63	69	71	72	67.9
Friendsville	Maximum	91	84	92	86	79	82	83	85	83	71	77	78	86	88	84	88	89	80	88	85	79	77	81	79	80	87	89	88	88	85	84.3	
Friendsville	Minimum	62	65	61	61	67	65	68	58	58	51	50	47	61	65	66	63	66	63	70	61	58	60	60	55	61	50	57	58	65	56	59.9	
Frostburg	Maximum	98	95	90	90	85	87	87	91	90	76	77	80	88	92	93	92	92	83	93	91	86	84	83	84	85	85	90	92	94	92	92	88.4
Frostburg	Minimum	66	69	64	66	66	65	64	61	61	56	50	60	65	70	62	67	65	68	68	68	68	69	<									