

CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE
NOVEMBER 1969

Continued

Station	Temperature											Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										80° or Above	31° or Below	31° or Below	1° or Below										
TOWSON	53.7	36.6	45.2		69	3	22	22	588	0	0	12	0	2.85	-.56	.86	20	T	0		9	1	0
UNIONVILLE	51.9	30.3	41.1		55	3+	13	22	710	0	0	19	0	2.39		.68	8	T	0		6	2	0
WESTMINSTER 2 SSE	50.4	33.5	42.0	- 2.7	64	3	15	22	683	0	1	13	0	2.19	- 1.10	.76	20	T	T	20	6	2	0
WHEATON REGIONAL PARK	54.4	34.5	44.5		69	4	17	22	610	0	0	14	0	2.42		.65	20	.0	0		8	1	0
WOODSTOCK	51.8	33.1	42.5	- 2.0	68	3	15	22	667	0	0	15	0	2.35	-.74	.80	19	.0	0		8	1	0
DIVISION			43.2	- 1.9										2.66				.2					
* * *																							
APPALACHIAN MOUNTAIN 07																							
BODNSBORD	50.5	34.9	42.7		62	2	18	21	660	0	1	12	0	3.14		.75	8	.7	1	14	6	3	0
CHEWSVILLE BRIDGEPORT	51.5	31.5	41.5	- 2.1	64	2	14	22	699	0	0	16	0	2.42	-.20	.73	19	T	0		6	2	0
CUMBERLAND	51.6	32.3	42.0		62	3+	17	22+	684	0	1	18	0	2.11		.83	2	.0	0		5	1	0
CUMBERLAND POLICE BRKS	51.3	32.8	42.1		61	12+	14	22	680	0	0	15	0	2.52		1.02	2	.0	0		6	1	1
FROSTBURG	46.1	30.6	38.4	- 3.3	58	23+	13	22+	791	0	3	16	0	2.98	.37	1.31	2	1.0	1	15+	6	1	1
HAGERSTOWN	50.7	34.1	42.4		63	2	18	22	670	0	0	13	0	2.89		.69	4	T	T	14	7	2	0
HANCOCK FRUIT LAB	50.8	31.9	41.4		61	3+	16	22	704	0	1	15	0	2.98	.43	.91	2	T	0		6	2	0
PICARDY																							
WESTERNPORT UPRC	50.6	33.9	42.3		63	2	10	15	677	0	1	14	0	1.14		.66	3	T	0		4	1	0
DIVISION			41.6	- 2.0										2.52	-.04			.2					
* * *																							
ALLEGHENY PLATEAU 08																							
BITTINGER 2 NW	42.4	27.4	34.9		56	2	10	22+	896	0	5	22	0	3.36		.59	8	10.1	5	15	11	1	0
OAKLAND 1 SE	45.3	27.6	36.5	- 2.8	61	18	11	22	849	0	4	23	0	2.31	-.83	.38	8	6.7	4	15	10	0	0
SAVAGE RIVER DAM	47.4	29.4	38.4		60	3	13	22	789	0	3	18	0	1.61		.51	2				5	1	0
SINES DEEP CREEK 2	45.2	27.3	36.3	- 1.8	66	3	10	22	852	0	5	21	0	3.10	.03	.63	9	9.0	7	15	8	3	0
DIVISION			36.5	- 2.1										2.60	-.38			8.6					
DELAWARE																							
* * *																							
NORTHERN 01																							
MIDDLETOWN 1 WSW	55.2M	34.9M	45.1M		67	19+	19	22	582	0	0	16	0	1.98		.61	20	.0	0		6	2	0
NEWARK UNIVERSITY FARM	54.9	34.9	44.9		70	3	18	22	592	0	0	14	0	1.74		.59	20	T	0		6	1	0
WILMGTDN NCASTLE WB AP	53.8	35.3	44.6	-.8	70	3	22	25+	606	0	0	14	0	1.79	- 1.74	.61	19	.1	0		6	1	0
WILMGTDN PORTER RESVR	51.9	35.0	43.5		68	3	21	22	638	0	0	13	0	2.23	- 1.44	.90	19	.1	0		6	2	0
DIVISION			44.5	- 1.5										1.94	- 1.54			.1					
* * *																							
SOUTHERN 02																							
BRIDGEVILLE 1 NW	55.6	34.2	44.9	- 2.6	72	3	16	22	595	0	0	13	0	2.06	- 1.15	.82	20	.0	0		7	1	0
DOVER	55.5	37.0	46.3	- 1.6	70	3	19	22	557	0	0	11	0	2.16	- 1.51	.73	20	.0	0		6	2	0
GEORGETOWN 5 SW	54.7	33.0	43.9		71	4	16	22	628	0	0	16	0	2.25		.56	20	.0	0		8	1	0
LEWES 1 SW	55.6	37.5	46.6		70	3	21	22	544	0	0	10	0	3.74		1.11	2	.0	0		9	3	1
MILFORD 2 WSW	56.0	33.4	44.7		70	3	14	22	604	0	0	15	0	2.25		.75	20	.0	0		7	1	0
SELBYVILLE	56.8	37.4	47.1		71	3	18	22	529	0	0	10	0	3.24		1.11	3	.0	0		7	2	1
DIVISION			45.6	- 2.3										2.62	-.95			.0					

TEMPERATURE AND PRECIPITATION EXTREMES

- HIGHEST TEMPERATURE: 75° ON THE 3D AT LA PLATA 1 W, MD.
- LOWEST TEMPERATURE: 10° ON THE 22+ AT 3 STATIONS, MD.
- GREATEST TOTAL PRECIPITATION: 5.53D INCHES AT CATOCTIN MOUNTAIN PARK, MD.
- LEAST TOTAL PRECIPITATION: .92 INCH AT DENTON, MD.
- GREATEST ONE-DAY PRECIPITATION: 2.40 INCHES ON THE 2D AT CATOCTIN MOUNTAIN PARK, MD.
- GREATEST REPORTED TOTAL SNOWFALL: 10.1 INCHES AT BITTINGER 2 NW, MD.
- GREATEST REPORTED DEPTH OF SNOW ON GROUND: 7 INCHES ON THE 15TH AT SINES DEEP 2, MD.

See Reference Notes Following Station Index

DAILY PRECIPITATION

MARYLAND AND DELAWARE
NOVEMBER 1969

Continued

Station	Total	Day of Month																																						
		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								
DELAWARE																																								
* * * * *																																								
NORTHERN 01																																								
MIDDLETOWN 1 WSW	1.96																																							
NEWARK UNIVERSITY FARM	1.74	.05			T							T																												
WILMINGTON NCASTLE WB AP	1.79		.13	.02			T																																	
WILMINGTON PORTER RESVR	2.23																																							
* * * * *																																								
SOUTHERN 02																																								
BRIDGEVILLE 1 NW	2.06																																							
DOVER	2.16		.12	.10																																				
GEORGETOWN 3 SW	2.25																																							
LENES 1 SW	3.74		1.11	.46																																				
MILFORD 2 WSW	2.25		.11	.15																																				
SELBYVILLE	3.24			1.11																																				

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)							Relative humidity averages- percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time EASTERN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							01	07	13	19										
BALTIMORE WB AIRPORT MD	29	4.4	8.9	42	SW	14	68	73	53	61	5	3	5	1	0	0	14	48	6.1	
WILMINGTON NCASTLE WB DEL	28	3.2	9.1	27++	27	05	80	83	56	74	7	5	5	1	0	0	18	1	6.6	

DAILY TEMPERATURES

MARYLAND AND DELAWARE
NOVEMBER 1969

Table with columns for Station, Day of Month (1-31), and Average. Rows include Maryland stations like Assateague State Park, Salisbury, and Southern Eastern Shore, and Lower Southern and Upper Southern stations.

See Reference Notes Following Station Index

DAILY TEMPERATURES

MARYLAND AND DELAWARE
NOVEMBER 1959

Continued

Station		Day of Month																														Average
		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	
MARYLAND																																
HANCOCK FRUIT LAB	MAX	58	61	61	59	53	46	50	53	50	49	53	54	60	53	48	32	49	53	57	57	37	34	45	58	50	55	49	46	48	46	
	MIN	39	55	54	35	33	41	40	36	40	43	43	35	28	41	24	22	22	28	48	24	21	16	21	37	18	29	17	22	19	28	
PICARDY																																
WESTERNPORT UPRC	MAX	62	63	60	53	50	51	56	51	51	50	53	48	51	49	41	49	51	59	60	40	32	44	60	52	54	47	49	48	46	38	
	MIN	48	54	50	43	37	39	42	43	32	46	48	40	30	34	10	27	24	31	37	27	22	16	26	40	22	37	33	23	26	30	
* * *																																
ALLEGHENY PLATEAU 08																																
BITTINGER 2 NW	MAX	53	56	51	41	35	41	41	43	42	41	43	52	41	38	25	40	47	55	52	29	24	50	53	42	53	42	43	41	31	27	
	MIN	45	41	39	30	29	29	32	34	30	37	39	33	23	24	10	16	25	32	27	17	11	10	37	27	24	29	22	26	22	21	
DAKLAND 1 SE	MAX	55	60	55	42	37	47	45	45	45	45	47	53	43	42	25	42	55	61	57	30	26	52	54	46	55	49	46	40	33	28	
	MIN	48	50	42	34	30	32	35	36	29	32	41	31	26	24	12	18	18	30	28	20	14	11	30	26	16	31	14	21	25	23	
SAVAGE RIVER DAM	MAX	55	59	60	57	47	42	49	45	50	47	48	50	57	48	41	31	43	48	58	59	31	27	45	58	45	55	42	43	44	37	
	MIN	31	54	48	37	36	35	39	38	35	39	44	37	27	27	18	18	22	23	33	25	19	13	14	29	22	24	21	22	27	28	
SINES DEEP CREEK 2	MAX	60	60	66	44	38	46	46	45	41	45	46	53	47	41	25	40	49	60	57	32	25	51	54	47	54	42	43	39	31	30	
	MIN	25	51	42	36	32	35	36	38	32	40	35	33	22	24	14	14	19	29	30	22	12	10	25	28	17	31	16	23	24	24	
DELAWARE																																
* * *																																
NORTHERN 01																																
MIDDLETOWN 1 WSW	MAX	65	63	67	67	56	51	48	56	57	63	61	57	53	50	50	46	57	62	67	64	39	40	62	52	54	51	43	51	48		
	MIN	45	54	57	47	43	40	39	34	42	51	32	38	32	41	30	23	24	30	46	31	23	19	29	37	23	24	24	28	23	28	
NEWARK UNIVERSITY FARM	MAX	64	61	70	65	63	50	51	55	58	62	60	55	54	49	49	47	56	63	62	57	38	43	62	53	53	52	48	50	50	47	
	MIN	44	54	57	48	42	39	40	34	45	51	44	40	33	40	27	22	24	29	45	29	23	18	25	37	22	32	25	29	25	25	
WILMGTN NCASTLE WB AP	MAX	67	64	70	62	51	53	52	57	60	66	61	53	54	52	41	48	55	61	64	43	39	43	62	52	49	50	45	49	49	41	
	MIN	49	58	57	47	42	41	40	36	47	48	43	42	34	40	26	26	28	33	35	29	24	22	30	27	22	31	25	28	24	25	
WILMGTN PORTER RESVR	MAX	63	61	68	58	49	50	49	55	57	62	57	59	48	50	40	45	52	59	63	39	35	40	60	52	49	50	47	49	50	41	
	MIN	45	54	55	45	40	38	38	40	43	45	42	41	34	38	26	24	29	34	33	28	22	21	32	32	26	34	27	31	27	27	
* * *																																
SOUTHERN 02																																
BRIDGEVILLE 1 NW	MAX	68	67	72	63	52	51	52	52	57	59	60	55	53	55	54	48	56	65	67	63	38	44	60	55	54	52	49	52	51	43	
	MIN	45	58	52	46	42	40	36	33	36	50	38	36	30	40	25	22	22	27	45	28	20	16	30	40	21	41	21	35	26	25	
DOVER	MAX	63	68	70	60	56	50	50	55	59	59	59	57	53	51	52	47	55	60	68	63	39	44	64	56	53	53	49	51	52	48	
	MIN	49	54	57	49	43	40	44	35	45	51	41	40	35	42	30	25	25	31	46	31	24	19	34	41	25	36	25	37	27	30	
GEORGETOWN 5 SW	MAX	65	68	67	71	60	51	51	50	55	57	57	60	53	52	55	38	47	57	64	66	44	36	45	60	53	53	53	49	52	51	
	MIN	35	56	58	50	45	41	35	35	35	46	38	37	31	38	29	24	22	27	31	30	22	16	19	38	22	26	22	24	30	28	
LEWES 1 SW	MAX	65	64	70	62	54	52	53	55	57	56	58	54	54	55	53	50	54	61	63	64	39	46	65	57	56	53	47	54	51	46	
	MIN	54	59	58	48	43	41	36	37	45	50	46	40	34	43	28	25	25	30	40	31	24	21	38	40	28	34	26	39	34	28	
MILFORD 2 WSW	MAX	67	67	70	62	54	50	51	56	58	58	60	57	55	54	54	48	58	65	68	64	38	45	64	55	54	55	47	52	50	44	
	MIN	49	55	56	46	41	38	36	32	38	48	36	38	30	38	27	21	20	25	44	28	21	14	29	38	19	33	19	32	24	26	
SELBYVILLE	MAX	66	65	71	62	55	53	51	55	57	55	60	66	57	56	55	48	55	62	66	63	39	46	64	58	55	55	53	55	55	47	
	MIN	51	59	58	50	46	45	35	38	39	49	42	40	34	40	29	25	23	29	47	32	24	18	39	44	24	34	24	41	35	29	

SNOWFALL AND SNOW ON GROUND

MARYLAND AND DELAWARE
NOVEMBER 1969

Station		Day of month																																																															
		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																																																																	
* * *	SOUTHERN EASTERN SHORE 01																																																																
	SALISBURY FAA AIRPORT																																																											T					
* * *	LOWER SOUTHERN 03																																																																
	LA PLATA 1 W																																																T													T			
	DWINGS FERRY LANDING																																																																
* * *	UPPER SOUTHERN 04																																																																
	BALTIMORE WB AIRPORT																																																												T	T			
	COLLEGE PARK																																																													T			
	FORT GEORGE G MEADE																																																																
	GLENN DALE BELL STA																																																																
* * *	NORTHERN EASTERN SHORE 05																																																																
	CHESTERTOWN																																									T																			T	T			
	MILLINGTON																																																																
* * *	NORTHERN CENTRAL 06																																																																
	BROOKDALE																																																													T			
	PARKTON 2 SW																																																														T		
	UNIONVILLE																																																																
	WESTMINSTER 2 SSE																																																																
* * *	APPALACHIAN MOUNTAIN 07																																																																
	FROSTBURG				T	T												1.0	T																																														
	HAGERSTOWN				T												T																																																
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* * *	NORTHERN 01																																																																
	NEWARK UNIVERSITY FARM																																																															T	
	WILMGTN NCASTLE WB AP																																																															T	.1
	WILMGTN PORTER RESVR																																																															.1	

REFERENCE NOTES

MARYLAND AND DELAWARE
NOVEMBER 1969

Additional information regarding the climate of Maryland and Delaware may be obtained by writing to the Environmental Science Services Administration State Climatologist, Room 34, Symons Hall, University of Maryland, College Park, Maryland 20740, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA MARYLAND AND DELAWARE".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. Monthly degree day totals are the sums of the negative departures of average daily temperatures from 65°F. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: The Station Index shows observation times in local standard time. During the summer months some observers take the observations on daylight saving time. Snow on the ground in the "Snowfall and Snow on Ground" table is at observation time for all except Weather Bureau and FAA stations. For these stations snow on ground values are at 7:00 a.m., E.S.T. Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table, and snowfall in the "Snowfall and Snow on Ground" table, when published, are for the 24 hours ending at time of observation.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

WATER EQUIVALENT values published in the "Snowfall and Snow on Ground" table are the water equivalent of snow, sleet, or ice on the ground. Samples for obtaining measurements are taken from different points for successive observations; consequently, occasional drifting and other causes of local variability in the snowpack may result in apparent inconsistencies in the record.

SNOWFALL: Entries of snowfall in the "Climatological Data" table, the "Snowfall and Snow on Ground" table, and in the "Seasonal Snowfall" table, include snow and sleet. Entries of snow on ground include snow, sleet, and ice.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

DIVISIONS, as used in this publication, became effective with data for October 1956.

STATION NAMES: Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the post office.

SEASONAL TABLES: Monthly and seasonal snowfall and heating degree days for the 12 months ending with the preceding June data will be carried in the July issue of this bulletin.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- B Adjusted to a full month.
- D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record. Degree day data, if carried for this station, have been adjusted to represent the value for a full month.
- R Amounts from recording gage. (These amounts are essentially accurate but may vary slightly from the amounts to be published later in Hourly Precipitation Data.)
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR This entry in time of observation column in Station Index means after rain.
- C Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- G "Soil Temperature" table.
- H "Snowfall and Snow on Ground" table. Omission of data in any month indicates no snowfall and/or snow on ground in that month.
- J "Supplemental Data" table.
- SS This entry in time of observation column in Station Index means observation made near sunset.
- VAR This entry in time of observation column in Station Index means variable.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

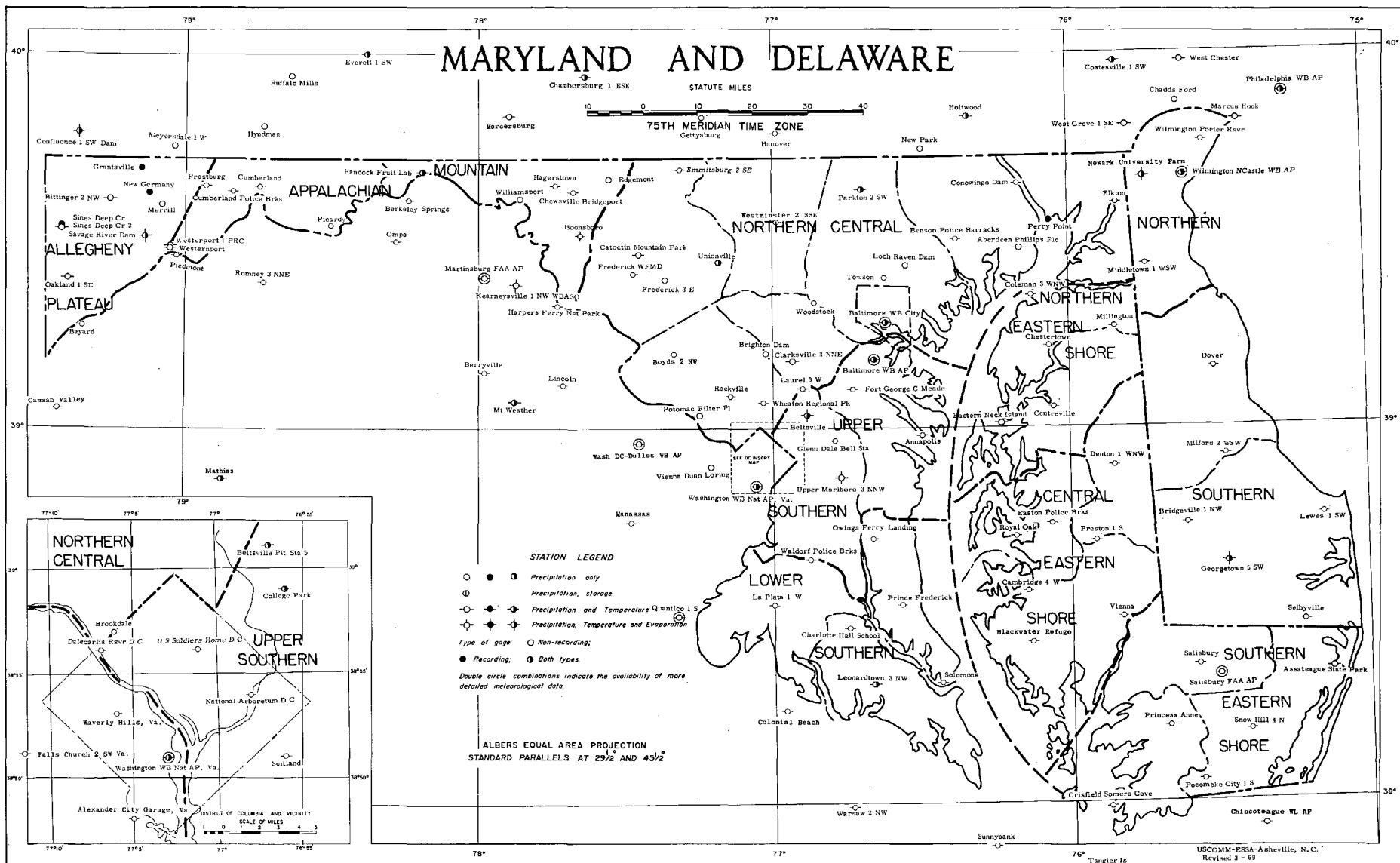
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

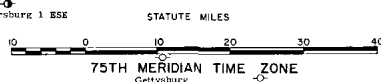
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1955 may be found in the publication "Substation History" for these States, price 25 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE-12/31/69-810



MARYLAND AND DELAWARE



- STATION LEGEND**
- Precipitation only
 - Precipitation, storage
 - ⊙ Precipitation and Temperature Quantito 1 S
 - ⊕ Precipitation, Temperature and Evaporation
 - Type of gage ○ Non-recording;
 - Recording; ⊙ Both types.
- Double circle combinations indicate the availability of more detailed meteorological data.

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29° AND 43°