

U. S. DEPARTMENT OF COMMERCE

SINCLAIR WEEKS, *Secretary*

WEATHER BUREAU

F. W. REICHELDERFER, *Chief*

TECHNICAL PAPER NO. 15

Maximum Station Precipitation for
1, 2, 3, 6, 12, and 24 Hours

Part IV: Maryland, Delaware, and District of
Columbia

DIVISION OF HYDROLOGIC SERVICES

HYDROMETEOROLOGICAL SECTION

In cooperation with

THE CORPS OF ENGINEERS, U. S. ARMY



WASHINGTON, D. C.

1954

Weather Bureau Technical Papers

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| No. 1. | Ten-year normals of pressure tendencies and hourly station pressures for the United States. Washington, D. C. 1943. | \$1.50 |
| | Supplement: Normal 3-hourly pressure changes for the United States at the intermediate synoptic hours. Washington, D. C. 1945. | Out of print |
| No. 2. | Maximum recorded United States point rainfall for 5 minutes to 24 hours at 207 first order stations. Washington, D. C. 1947. | .25 |
| No. 3. | Extreme temperatures in the upper air. Washington, D. C. 1947. | .75 |
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| No. 7. | A report on thunderstorm conditions affecting flight operations. Washington, D. C. 1948. | .40 |
| No. 8. | The climatic handbook for Washington, D. C. Washington, D. C. 1949. | \$1.00 |
| No. 9. | Temperatures at selected stations in the United States, Alaska, Hawaii, and Puerto Rico. Washington, D. C. 1949. | .15 |
| No. 10. | Mean precipitable water in the United States. Washington, D. C. 1949. | .30 |
| No. 11. | Weekly mean values of daily total solar and sky radiation. Washington, D. C. 1949. | .15 |
| No. 12. | Sunshine and cloudiness at selected stations in the United States, Alaska, Hawaii, and Puerto Rico. Washington, D. C. 1951. | .15 |
| No. 13. | Mean monthly and annual evaporation data from free water surface for the United States, Alaska, Hawaii, and the West Indies. Washington, D. C. 1950. | .15 |
| No. 14. | Tables of precipitable water and other factors for a saturated pseudo-adiabatic atmosphere. Washington, D. C. 1951. | .20 |
| No. 15. | Maximum station precipitation for 1, 2, 3, 6, 12, and 24 hours:
Part I: Utah; Part II: Idaho. Washington, D. C. 1951. | each .25 |
| | Part III: Florida. Washington, D. C. 1952. | .45 |
| | Part IV: Maryland, Delaware, and District of Columbia. Washington, D. C. 1953. | .25 |
| No. 16. | Maximum 24-hour precipitation in the United States. Washington, D. C. 1952. | \$1.25 |
| No. 17. | Kansas-Missouri floods of June-July 1951. Kansas City, Mo. 1952. | .60 |
| No. 18. | Measurements of diffuse solar radiation at Blue Hill Observatory. Washington, D. C. 1952. | .20 |
| No. 19. | Mean number of thunderstorm days in the United States. Washington, D. C. 1952. | .15 |
| No. 20. | Tornado occurrences in the United States. Washington, D. C. 1952. | .35 |
| No. 21. | Normal weather charts for the Northern Hemisphere. Washington, D. C. 1952. | \$1.75 |
| No. 22. | Wind patterns over lower Lake Mead. Washington, D. C. 1953. | .25 |
| No. 23. | Floods of April 1952—Upper Mississippi, Missouri, Red River of the North. | In preparation |
| No. 24. | Rainfall intensities for local drainage design in the United States. For durations of 5 to 240 minutes and 2-, 5-, and 10-year return periods. Part I: West of 115th meridian. Washington, D. C. 1953. | .20 |

MAXIMUM STATION PRECIPITATION FOR 1, 2, 3, 6, 12, and 24 HOURS

INTRODUCTION

This report which is one of a planned series covering the entire United States, was prompted by the long-standing and widespread interest in maximum observed precipitation amounts for durations of 24 hours and under. At least two summaries of this type of data have already been prepared¹. Neither summary involved more than a couple of hundred stations throughout the United States, and no attempt was made to determine the month-to-month variation of the maximum values. Eventually, the records for some 3000 recording gages in the United States will have been examined for maximum amounts. The survey for the eastern half of the country is being conducted by the Hydrometeorological Section in cooperation with the Corps of Engineers and that for the western half by the Cooperative Studies Section in cooperation with the Bureau of Reclamation. Sources of data are: (1) Hydrologic Bulletin, (2) Climatological Data, (3) WB Form 1017, triple-register sheet, and (4) WB Form 1030, Monthly Climatological Summary.

All precipitation amounts presented in the tabulations are in inches.

The station names and locations shown on figures 1-6 are those listed in Climatological Data for December 1950. Some stations have operated under two or more names and/or at several local sites during the period of record. Any important change in location usually calls for a new station name so that records for the two sites are automatically tabulated separately.

The period of record, except at Weather Bureau first-order stations, is limited to the 11 years since the hydrologic network of weighing gages was inaugurated about 1940. In the case of Weather Bureau first-order stations, tipping-bucket gage records were surveyed for the entire period of record prior to 1951. For comparative purposes, two sets of maxima were obtained from these long re-

ords, one for the period 1940-1950 and the other for the period from the installation of the tipping-bucket gage through 1950. Records for stations in operation less than 5 years were not used unless the stations were active through 1950, in which case their maxima are listed to facilitate future surveys of subsequent data. If the period of record was not continuous and any single interruption was less than one year, the notation "break(s)" is inserted after the years denoting the period of record. Interruptions of one year or longer are shown by separate listing of the years, e.g., 1940-1942, 1943-1950, indicating that a break of 12 months or longer occurred in 1942-1943.

Many recording-gage stations are also equipped with nonrecording gages. Maxima from nonrecording gages were used whenever they exceeded those of the recording gages.

In many cases the maximum occurred on the last day of the month and the first day of the next month. Therefore in some instances the same maximum applies for each of the months involved.

The time intervals used in most of the survey and tabulations began on the hour. This practice yields lower values than would be obtained by allowing the interval to begin any time within an hour, but the extra work involved in obtaining the true values would greatly increase the cost of the project. It is possible that when the survey for the entire United States has been completed an attempt will be made to determine the relation between true maxima and those for the standard clock intervals over various regions of the country. A satisfactory correlation would provide a procedure for adjusting the tabulated amounts to values more nearly representing the true maxima. In the case of some Weather Bureau first-order stations, the maxima for 1-, 2-, 24-, and some 3-hour durations are true maxima, i.e., the interval is actually for the period of maximum precipitation and does not necessarily begin on the hour. True maxima are indicated by footnotes in the tabulations.

Estimates of maximum amounts, indicated by the letter "E" in the tabulations, were required whenever the following conditions prevailed: Recording gages were not functioning because of

1. Yarnell, D. L., "Rainfall Intensity-Frequency Data," U. S. Department of Agriculture Miscellaneous Publication No. 204, August 1935.
Shands, A. L. and D. Ammerman, "Maximum Recorded United States Point Rainfall," Weather Bureau Technical Paper No. 2, April 1947.

mechanical or electrical failure or because the precipitation was in the form of snow (tipping-bucket gages cannot measure snowfall rates). In such cases, the precipitation was assumed to have been evenly distributed throughout the period and estimates were obtained by prorating the accumulation. For example, in one case an amount of 5.00 inches was accumulated through a period of 54 hours. It developed that 24/54 of this amount, or 2.22 inches, was higher than any other amount for 24 hours, and this was used as the maximum.

Since this survey was confined to the period covered by recording gages, the 24-hour maximum amounts listed may be exceeded by 24-hour maxima published in reports² of other surveys

2. U. S. Weather Bureau, "Maximum 24-Hour Precipitation in the United States," Technical Paper No. 16, Washington, 1951.

supplementing the recording-gage data with antecedent nonrecording-gage records. Although it would have been an easy matter to use these higher maxima, it was believed preferable to list maxima for all durations for the same period of record.

Maximum monthly amounts determined from stations equipped with a recording gage are shown in table 1.

Maximum amounts determined from stations equipped with a recording gage are shown in table 2.

The monthly distribution of occurrences of the maximum amounts at the 17 stations with five years or more of record are shown in table 3.

A. E. Brown, Jr. compiled the data which was then checked by James L. Keister. Marian I. Hammer did the typing.

Table 1. - Maximum monthly amounts for Maryland, Delaware, and District of Columbia

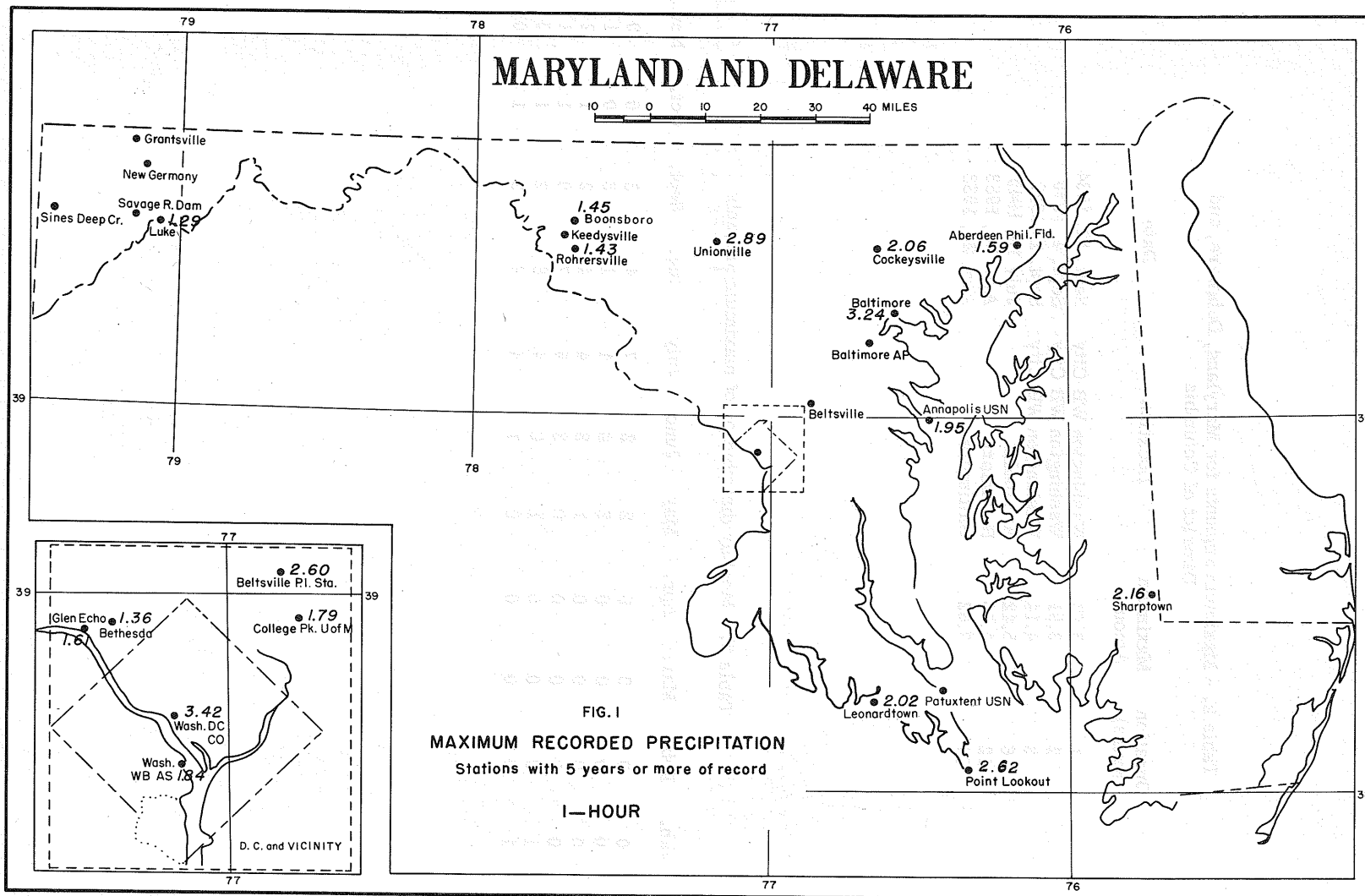
Duration (hours)	Maximum Amount	Location	Date	Duration (hours)	Maximum Amount	Location	Date
JANUARY				JULY			
1	0.79	Leonardtown	21/1949	1	2.87	Baltimore	12/1903
2	1.13	Leonardtown	21/1949	2	3.33	Washington WB City	5/1905
3	1.57	Aberdeen	1/1948	3	3.75	Annapolis	18/1945
6	2.81	Aberdeen	1/1948	6	5.42	Annapolis	18/1945
12	3.93	Aberdeen	1/1948	12	6.06	Annapolis	17-18/1945
24	4.22	Aberdeen	1-2/1948	24	6.70	Annapolis	17-18/1945
FEBRUARY				AUGUST			
1	0.62	Washington WB City	21/1937	1	2.60	Beltsville	26/1947
2	0.87	Baltimore	28/1939	2	3.23	Washington WB City	2/1944
3	1.08	Baltimore	28/1939	3	3.91	Washington WB City	2/1944
6	1.66	Baltimore	6/1896	6	5.38	Washington WB City	11-12/1928
12	2.72	Baltimore	6/1896	12	6.50	Baltimore	23/1933
24	3.48	Baltimore	5-6/1896	24	7.62	Baltimore	23/1933
MARCH				SEPTEMBER			
1	1.02	Washington WB City	24/1905	1	3.42	Washington WB City	12/1934
2	1.28	Beltsville	23/1948	2	3.91	Washington WB City	4/1939
3	1.39	Baltimore	28/1932	3	4.14	Washington WB City	2/1922
6	1.92	Baltimore	27-28/1932	6	5.15	Washington WB City	2/1922
12	2.41	Baltimore	27-28/1932	12	5.16	Washington WB City	2/1922
24	2.80	Washington WB City	3-4/1909	24	6.07	Baltimore	24-25/1912
APRIL				OCTOBER			
1	2.14	Baltimore	26/1939	1	2.29	Washington WB City	20/1910
2	2.17	Baltimore	26/1939	2	3.17	Baltimore	10/1922
3	2.38	Baltimore	30/1947	3	4.04	Baltimore	10/1922
6	3.09	Baltimore	Apr. 30-May 1, 1947	6	4.59	Baltimore	9-10/1922
12	3.64	Baltimore	Apr. 30-May 1, 1947	12	5.18	Baltimore	9-10/1922
24	3.99	Baltimore	Apr. 30-May 1, 1947	24	5.30	Baltimore	9-10/1922
MAY				NOVEMBER			
1	2.89	Unionville	21/1942	1	1.42	College Park	8/1943
2	3.12	Unionville	21/1942			Washington WB City	8/1943
3	3.65	Unionville	21/1942	2	2.36	College Park	8/1943
6	3.82	Unionville	21/1942	3	2.97	College Park	8/1943
12	4.19	Unionville	21/1942	6	3.26	College Park	8/1943
24	4.99	Unionville	21-22/1942	12	3.82	Baltimore	12-13/1937
				24	4.19	Baltimore	12-13/1937
JUNE				DECEMBER			
1	3.24	Baltimore	23/1941	1	0.70	Annapolis	5/1945
2	3.63	Baltimore	23/1941	2	1.12	Baltimore	13/1909
3	3.65	Baltimore	23/1941	3	1.51	Baltimore	13/1909
6	3.65	Baltimore	23/1941	6	2.15	Baltimore	13/1909
12	3.81	Unionville	1-2/1946	12	2.90	Baltimore	13/1909
24	5.59	Unionville	1-2/1946	24	3.16	Baltimore	12-13/1909

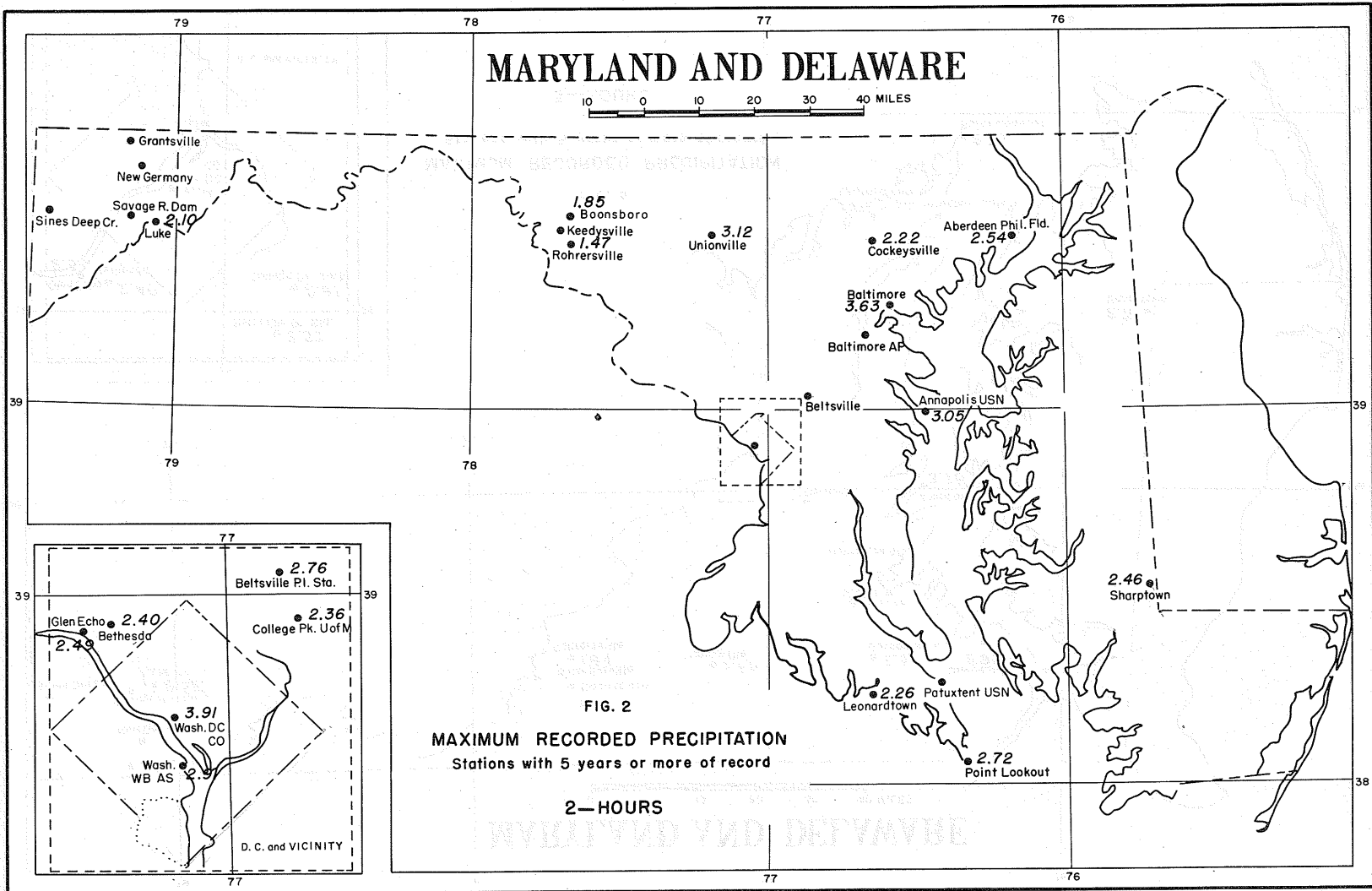
Table 2. - Maximum amounts for Maryland, Delaware, and District of Columbia

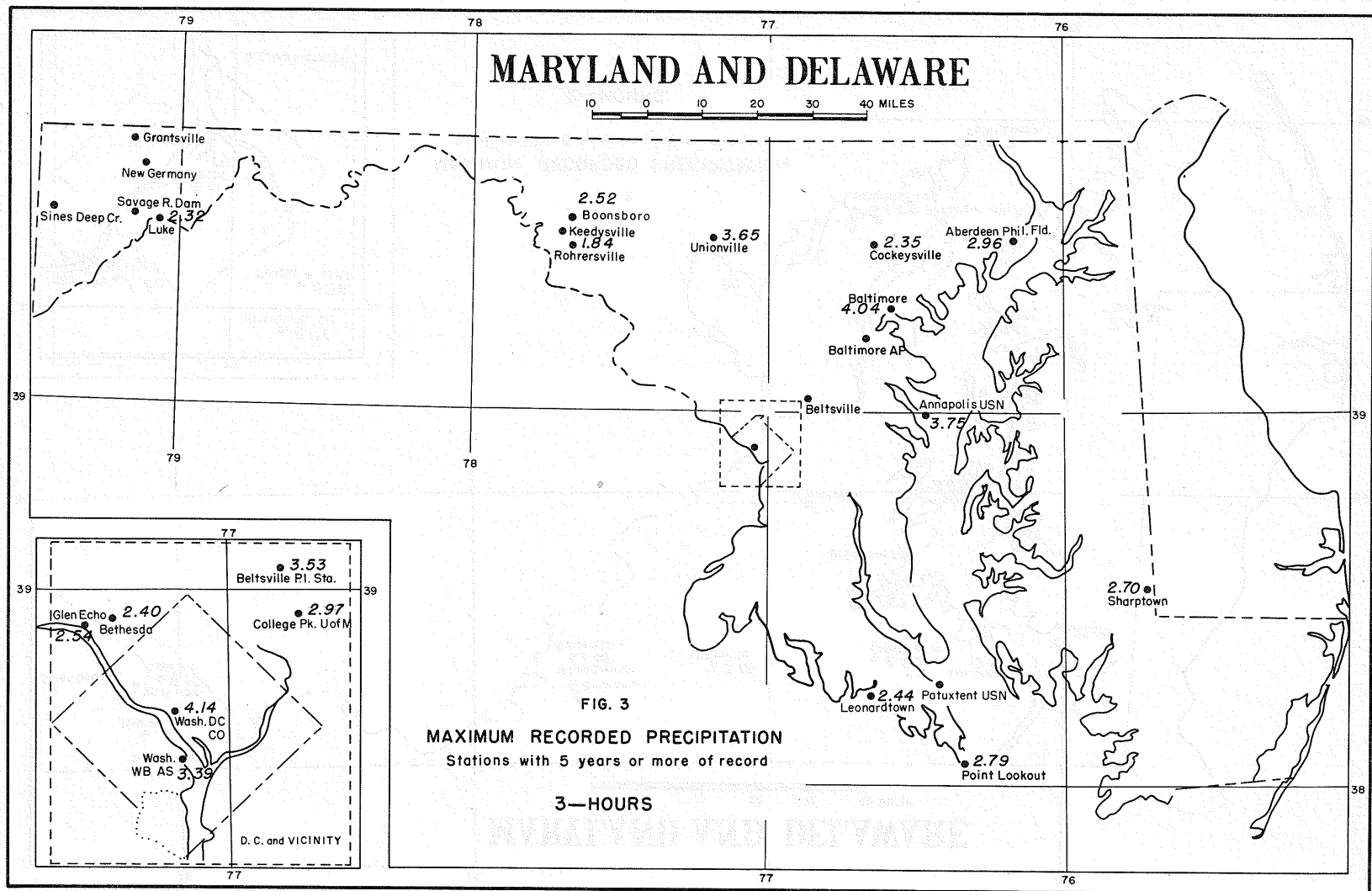
Duration (hours)	Maximum Amount	Location	Date
1	3.42	Washington WB City	Sept. 12, 1934
2	3.91	Washington WB City	Sept. 4, 1939
3	4.14	Washington WB City	Sept. 2, 1922
6	5.42	Annapolis	July 18, 1945
12	6.50	Baltimore	Aug. 23, 1933
24	7.62	Baltimore	Aug. 23, 1933

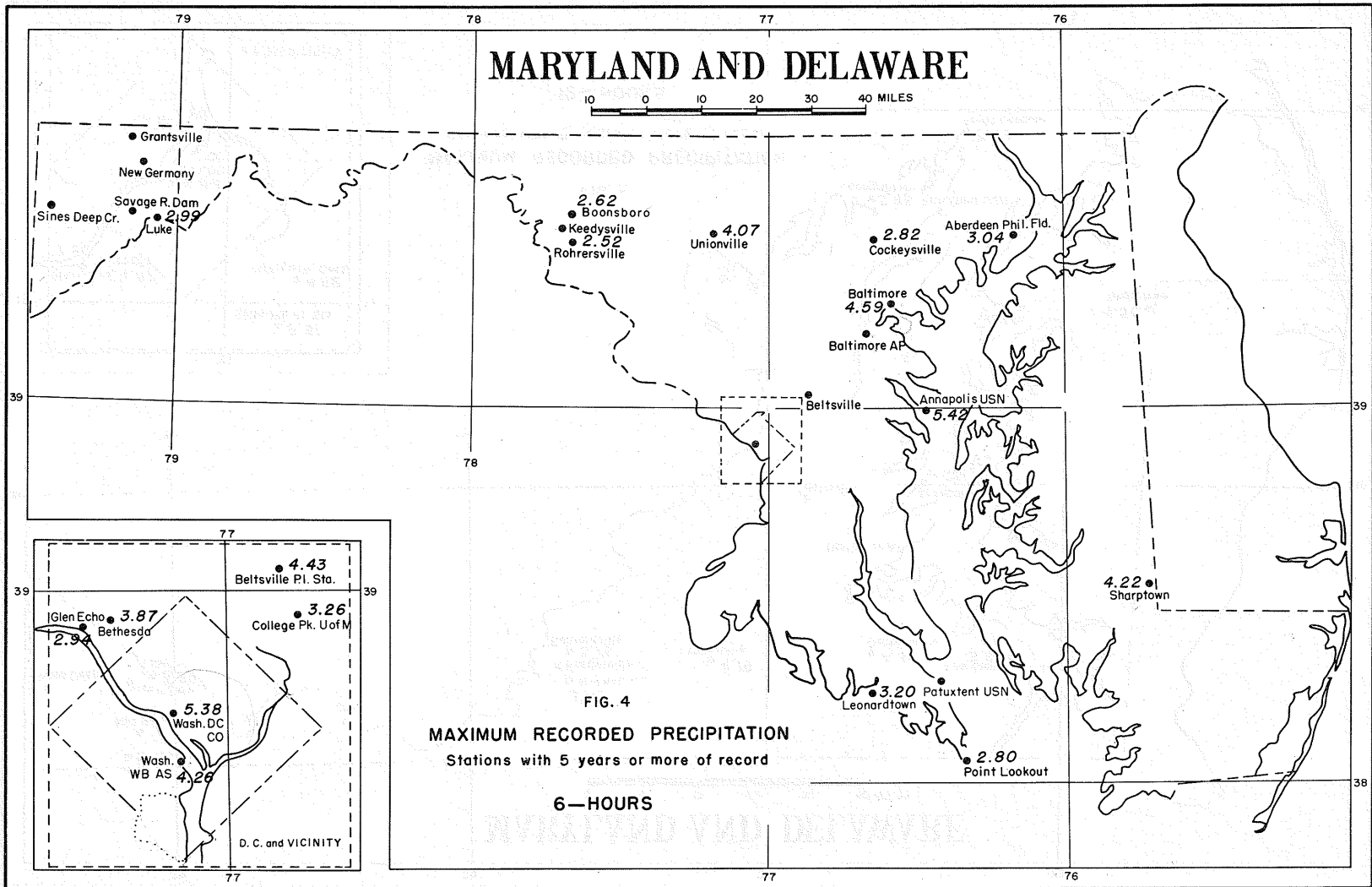
Table 3. - Monthly distribution of maximum amounts

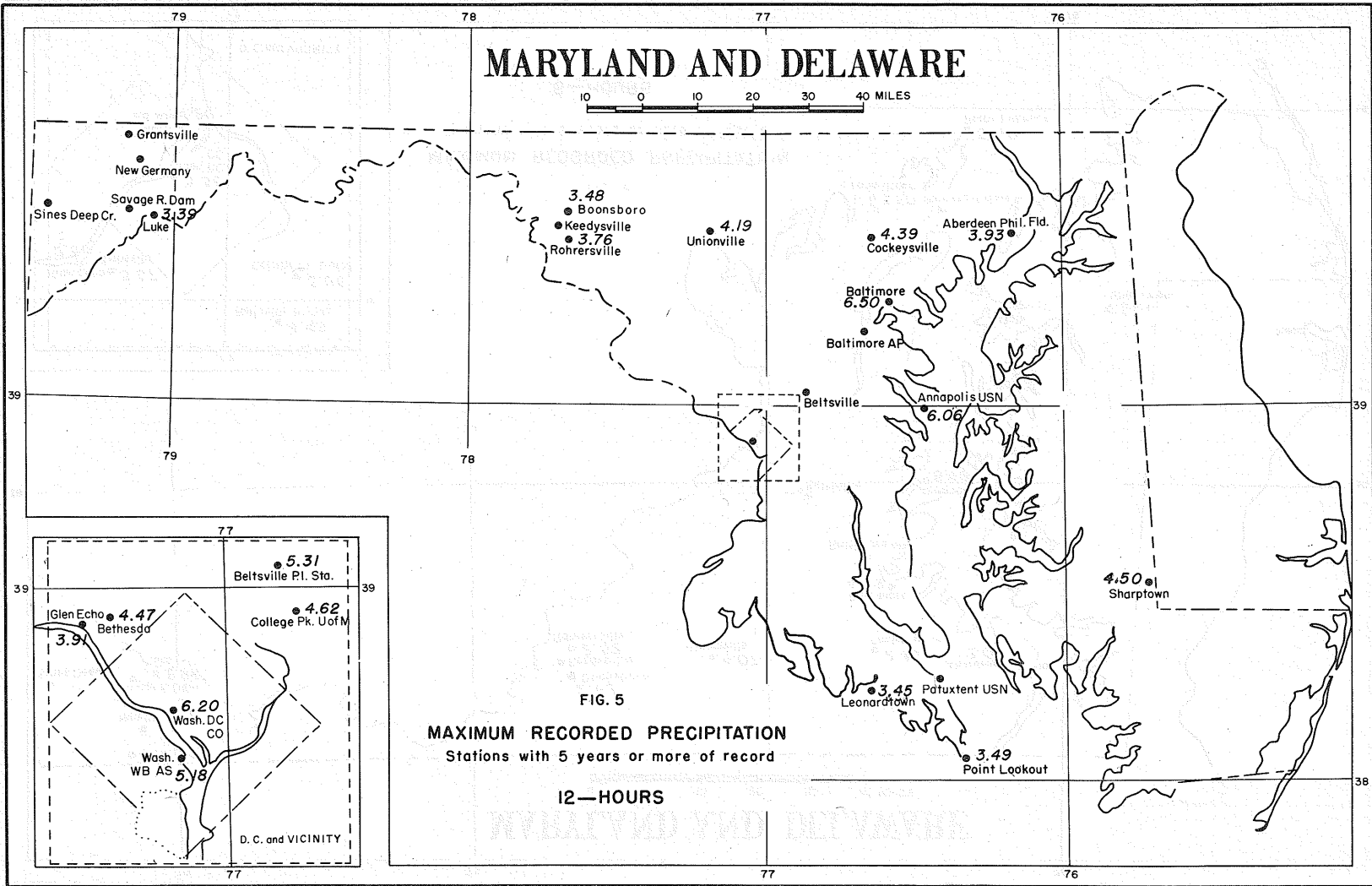
Duration (hours)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0	0	0	0	2	2	7	4	2	0	0	0
2	0	0	0	0	2	6	4	1	3	0	1	0
3	0	0	0	0	1	3	4	4	2	1	2	0
6	0	0	0	0	0	3	5	7	0	1	1	0
12	1	0	0	0	1	0	4	8	2	1	0	0
24	1	0	0	0	0	1	4	8	2	1	0	0

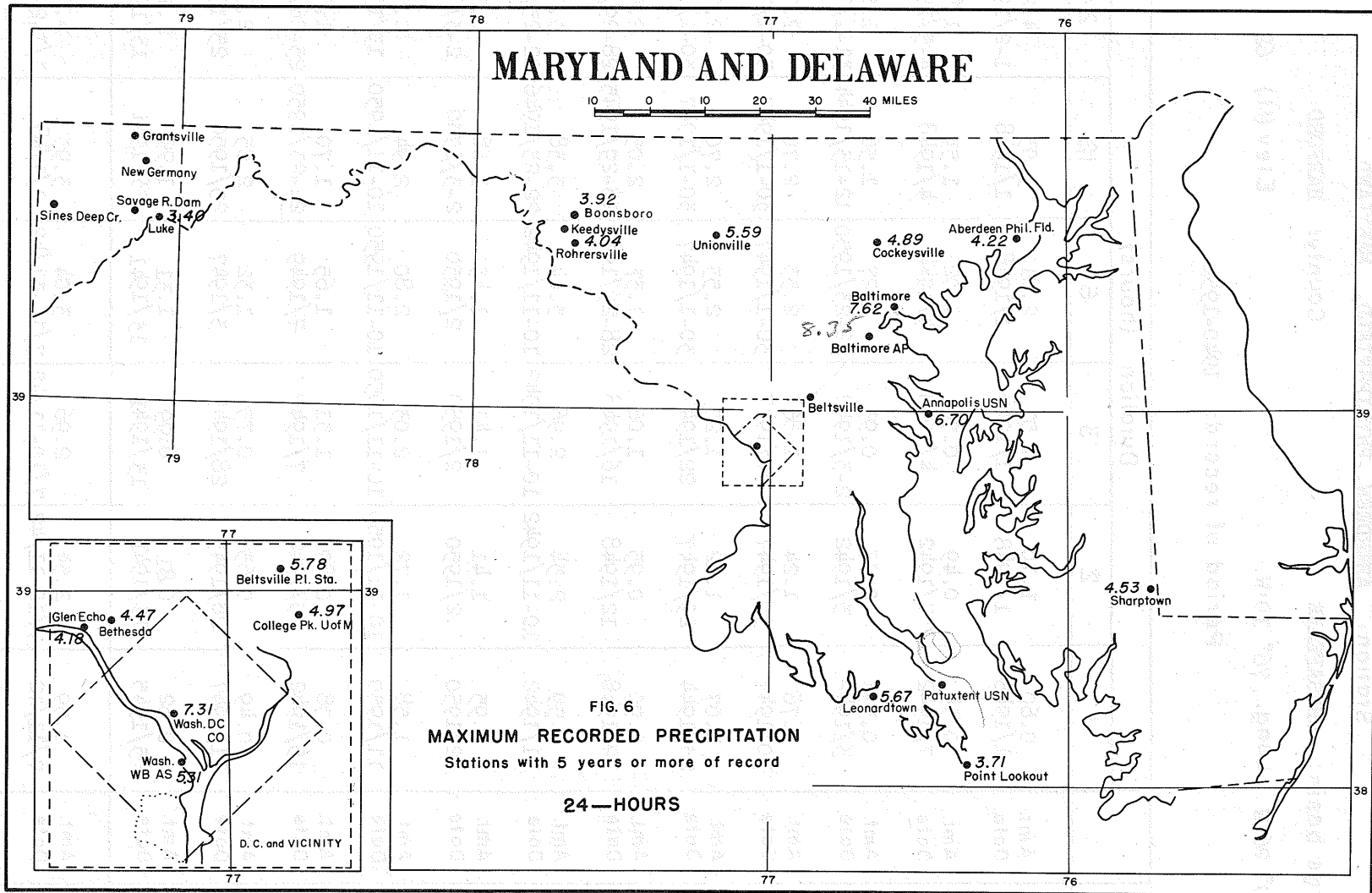












Station: ABERDEEN, PHILIPSFIELD, MARYLAND

Drainage basin: CHESAPEAKE

County: HARTFORD

Lat. 39° 26'N Long. 76° 10'W

Elev.(ft.) 62

Period of record: 1940-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.60 1/1948	1.10 1/1948	1.57 1/1948	2.81 1/1948	3.93 1/1948	4.22 1-2/1948
Feb.	Amt. Date	0.34 7/1942	0.49 7/1942	0.58 4/1948	1.02 4/1948	1.53 4/1948	1.80 4-5/1948
Mar.	Amt. Date	0.39 ^a 3/1942	0.77 3/1942	0.93 2-3/1942	1.27 22-23/1950	1.56 12-13/1944	1.65 31-1/1948
Apr.	Amt. Date	0.76 30/1947	1.24 30/1947	1.86 30/1947	2.53 30-1/1947	2.70 30-1/1947	2.70 30-1/1947
May	Amt. Date	1.07 23/1944	1.12 29/1947	1.25 22/1947	2.53 30-1/1947	2.70 30-1/1947	2.70 30-1/1947
Jun.	Amt. Date	0.90 12/1948	0.95 12/1948	1.06 16/1948	1.37 28-29/1945	2.05 28-29/1945	2.05 28-29/1945
Jul.	Amt. Date	1.59 11/1942	2.54 10-11/1942	2.96 10-11/1942	3.04 10-11/1942	3.38 22-23/1946	3.74 22-23/1946
Aug.	Amt. Date	0.95 2/1950	1.41 2/1950	1.41 2/1950	1.43 2/1950	1.68 2-3/1950	2.75 2-3/1950
Sep.	Amt. Date	1.58 11/1950	1.72 10-11/1950	2.03 10-11/1950	2.80 10-11/1950	2.94 10-11/1950	3.93 13/1944
Oct.	Amt. Date	0.58 15/1942	0.89 15/1942	1.31 7/1949	1.65 7/1949	1.70 22-23/1950	1.91 25-26/1943
Nov.	Amt. Date	0.49 11/1947	0.65 28/1945	0.73 28/1945	1.32 3/1947	2.05 25/1950	2.31 25/1950
Dec.	Amt. Date	0.52 25/1945	0.81 13/1941	0.99 13/1941	1.31 13/1941	1.99 13/1941	2.18 13/1941
Annual	Amt. Date	1.59 7/11/42	2.54 7/10-11/42	2.96 7/10-11/42	3.04 7/10-11/42	3.93 1/1/48	4.22 1/1-2/48

^aAlso recorded on 6/1943.

Station: ANNAPOLIS NAVAL ACADEMY, MARYLAND

Drainage basin: CHESAPEAKE

County: ANNE ARUNDEL

Lat. 38° 59'N Long. 76° 29'W

Elev.(ft.) 40

Period of record: 1941-1948

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.43 1/1948	0.70 1/1948	0.88 1/1948	1.22 1/1948	1.57 1/1948	1.72 3-4/1944
Feb.	Amt. Date	0.36 7/1942	0.51 7/1942	0.61 19/1946	1.07 6-7/1942	1.20 6-7/1942	1.38 4-5/1948
Mar.	Amt. Date	0.41 6/1943	0.68 6/1943	0.84 6/1943	1.07 6/1943	1.18 6/1943	1.19 6/1943
Apr.	Amt. Date	0.63 30/1947	1.03 30/1947	1.19 30-1/1947	1.19 30-1/1947	1.24 24/1944	1.58 23-24/1944
May	Amt. Date	1.05 28/1945	1.40 27/1944	1.45 27-28/1944	1.45 27-28/1944	1.52 26/1946	1.72 26-27/1946
Jun.	Amt. Date	1.20 7/1942	1.50 7/1942	1.53 7/1942	2.40 26-27/1942	3.44 26-27/1942	3.52 26-27/1942
Jul.	Amt. Date	1.95 18/1945	3.05 18/1945	3.75 18/1945	5.42 18/1945	6.06 17-18/1945	6.70 17-18/1945
Aug.	Amt. Date	1.15 19/1948	1.46 19/1948	1.77 2/1944	2.98 2/1944	3.65 2-3/1944	4.20 2-3/1944
Sep.	Amt. Date	1.14 6/1947	1.62 6/1947	1.81 6-7/1947	1.97 6-7/1947	2.21 6-7/1947	2.53 6-7/1947
Oct.	Amt. Date	0.74 15/1942	1.34 15/1942	1.61 15/1942	1.83 15/1942	2.08 25-26/1943	3.26 25-26/1943
Nov.	Amt. Date	0.49 3/1947	0.95 3/1947	1.39 3/1947	2.16 3/1947	2.39 3/1947	2.40 3/1947
Dec.	Amt. Date	0.70 5/1945	1.10 5/1945	1.26 5/1945	1.48 5/1945	1.78 13/1941	2.06 12-13/1941
Annual	Amt. Date	1.95 7/18/45	3.05 7/18/45	3.75 7/18/45	5.42 7/18/45	6.06 7/17-18/45	6.70 7/17-18/45

Station: BALTIMORE WB CITY, MARYLAND*

Drainage basin: CHESAPEAKE

County: BALTIMORE

Lat. 39° 17'N Long. 76° 37'W

Elev.(ft.) 14

Period of record: 1940-1950 ONLY

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.48 1/1948	0.88 1/1948	1.25 1/1948	1.97 1/1948	2.64 1/1948	3.73 3-4/1944
Feb.	Amt. Date	0.38 7/1942	0.67 7/1942	0.95 6-7/1942	1.54 6-7/1942	1.80 ^a 17-18/1940	2.05 17-18/1940
Mar.	Amt. Date	0.43 6/1943	0.69 14/1940	0.92 12-13/1944	1.36 22/1950	1.79 29/1942	2.26 28-29/1942
Apr.	Amt. Date	1.27 30/1947	1.82 30/1947	2.38 30/1947	3.09 30-1/1947	3.64 30-1/1947	3.64 30-1/1947
May	Amt. Date	1.17 20/1940	1.35 20/1940	1.36 20/1940	3.09 30-1/1947	3.64 30-1/1947	3.64 30-1/1947
Jun.	Amt. Date	3.24 23/1941	3.63 23/1941	3.65 23/1941	3.65 23/1941	3.65 23/1941	3.65 23/1941
Jul.	Amt. Date	1.34 17/1947	1.83 26/1944	2.17 22/1946	2.29 10/1942	2.78 22-23/1946	3.52 22-23/1946
Aug.	Amt. Date	1.55 18/1946	1.83 19/1950	1.89 19/1950	2.29 19-20/1950	2.77 8-9/1942	3.13 8-9/1942
Sep.	Amt. Date	1.85 10/1950	2.43 10/1950	2.92 10/1950	3.70 10/1950	3.87 10-11/1950	3.87 10-11/1950
Oct.	Amt. Date	0.69 26/1942	0.95 26/1942	1.14 26/1942	1.75 25-26/1943	2.56 25-26/1943	4.16 25-26/1943
Nov.	Amt. Date	0.60 3/1947	1.01 3/1947	1.37 3/1947	2.25 3/1947	2.75 3/1947	2.79 3/1947
Dec.	Amt. Date	0.42 ^b 5/1945	0.81 5/1945	1.16 5/1945	1.57 13/1941	2.11 5/1945	2.23 12-13/1941
Annual	Amt. Date	3.24 6/23/41	3.63 6/23/41	3.65 6/23/41	3.70 9/10/50	3.87 9/10-11/50	4.16 10/25-26/43

*Given for comparative purposes. See next page for complete record.

January 2- and 24-hr, May 24-hr, June and September 1- and 2-hr are true maxima.

^aAlso recorded on 6-7/1942.

^bAlso recorded on 4/1950.

Station: BALTIMORE WB CITY, MARYLAND

Drainage basin: CHESAPEAKE

County: BALTIMORE

Lat. 39° 17' N Long. 76° 37' W

Elev.(ft.) 14

Period of record: 1893-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.69 30/1939	0.88 1/1948	1.25 1/1948	1.97 1/1948	2.64 1/1948	3.73 3-4/1944
Feb.	Amt. Date	0.59 28/1939	0.87 28/1939	1.08 28/1939	1.66 6/1896	2.72 6/1896	3.48 5-6/1896
Mar.	Amt. Date	0.79 28/1932	1.20 28/1932	1.39 28/1932	1.92 27-28/1932	2.41 27-28/1932	2.60 27-28/1932
Apr.	Amt. Date	2.14 26/1939	2.17 26/1939	2.38 30/1947	3.09 30-1/1947	3.64 30-1/1947	3.99 25-26/1937
May	Amt. Date	1.59 24/1903	1.76 6/1935	1.84 6/1935	3.09 30-1/1947	3.64 30-1/1947	3.64 30-1/1947
Jun.	Amt. Date	3.24 23/1941	3.63 23/1941	3.65 23/1941	3.65 23/1941	3.65 23/1941	3.97 2-3/1915
Jul.	Amt. Date	2.87 12/1903	2.87 12/1903	2.90 18/1907	3.61 22/1906	4.01 22-23/1906	4.01 22-23/1906
Aug.	Amt. Date	2.36 25/1911	2.50 25/1911	2.50 25/1911	4.13 23/1933	6.50 23/1933	7.62 23/1933
Sep.	Amt. Date	1.85 10/1950	2.43 10/1950	2.92 10/1950	3.70 10/1950	4.16 24/1912	6.07 24-25/1912
Oct.	Amt. Date	2.06 10/1922	3.17 10/1922	4.04 10/1922	4.59 9-10/1922	5.18 9-10/1922	5.30 9-10/1922
Nov.	Amt. Date	0.93 26/1895	1.50 16/1926	1.79 16/1926	2.60 13/1937	3.82 12-13/1937	4.19 12-13/1937
Dec.	Amt. Date	0.69 13/1909	1.12 13/1909	1.51 13/1909	2.15 13/1909	2.90 13/1909	3.16 12-13/1909
Annual	Amt. Date	3.24 6/23/41	3.63 6/23/41	4.04 10/10/22	4.59 10/9-10/22	6.50 8/23/33	7.62 8/23/33

1-, 2-, and 24-hour amounts January through September are true maxima

Station: BELTSVILLE*, MARYLAND

Drainage basin: POTOMAC

County: PRINCE GEORGE

Lat. 39° 01'N Long. 76° 57'W

Elev.(ft.) 100

Period of record: 1940-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.35 1/1948	0.64 1/1948	0.89 1/1948	1.38 1/1948	1.91 1/1948	2.19 1-2/1948
Feb.	Amt. Date	0.27 6/1942	0.45 6/1942	0.58 6/1942	0.90 6-7/1942	1.04 6-7/1942	1.19 18-19/1940
Mar.	Amt. Date	0.85 23/1948	1.28 23/1948	1.34 23/1948	1.52 23-24/1948	1.58 14/1940	2.50 28-29/1942
Apr.	Amt. Date	0.99 30/1947	1.38 30/1947	1.81 30/1947	1.81 30/1947	2.00 8/1940	2.18 8-9/1940
May	Amt. Date	1.18 28/1945	1.69 28/1945	1.69 28/1945	1.84 15/1949	1.86 14-15/1949	1.96 14-15/1949
Jun.	Amt. Date	1.44 15/1941	1.90 14/1947	2.30 14/1947	2.45 14/1947	2.70 14/1947	4.63 13-14/1947
Jul.	Amt. Date	1.99 26/1945	2.47 26/1945	2.53 26/1945	2.69 17-18/1945	3.28 17-18/1945	3.68 17-18/1945
Aug.	Amt. Date	2.60 26/1947	2.76 19/1950	3.53 19/1950	4.43 19/1950	5.31 2/1944	5.78 2/1944
Sep.	Amt. Date	1.01 23/1946	1.40 13/1944	1.66 13/1944	2.05 13/1944	3.00 13/1944	3.24 12-13/1944
Oct.	Amt. Date	1.00 15/1942	1.21 15/1942	1.50 15/1942	1.71 15/1942	2.06 26/1943	3.10 25-26/1943
Nov.	Amt. Date	1.10 8/1943	1.50 8/1943	2.00 8/1943	2.30 8/1943	2.52 8-9/1943	2.72 8-9/1943
Dec.	Amt. Date	0.46 28/1940	0.79 12-13/1941	1.07 12-13/1941	1.50 12-13/1941	1.80 12-13/1941	2.11 12-13/1941
Annual	Amt. Date	2.60 8/26/47	2.76 8/19/50	3.53 8/19/50	4.43 8/19/50	5.31 8/2/44	5.78 8/2/44

*Formerly Beltsville (nr)

Station: BELTSVILLE PLANT IND. STA. NO. 5, MARYLAND

Drainage basin: POTOMAC

County: PRINCE GEORGE

Lat. 39° 01'N Long. 76° 57'W

Elev.(ft.) 100

Period of record: 1949-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.11 30/1950	0.13 31/1950	0.17 31/1950	0.23 30/1950	0.34 30/1950	0.59 30-31/1950
Feb.	Amt. Date	0.29 2/1950	0.35 2/1950	0.39 9/1950	0.49 9/1950	0.56 9/1950	0.61 1-2/1950
Mar.	Amt. Date	0.28 22/1950	0.52 22/1950	0.74 22/1950	0.98 22/1950	1.11 22-23/1950	1.16 22-23/1950
Apr.	Amt. Date	0.17 23/1950	0.19 23/1950	0.20 23/1950	0.21 23/1950	0.34 23/1950	0.34 23/1950
May	Amt. Date	0.44 15/1949	0.57 15/1949	0.79 15/1949	0.82 15/1949	0.97 15/1950	0.97 15/1950
Jun.	Amt. Date	0.88 10/1950	1.42 10/1950	1.42 10/1950	1.63 10/1950	1.72 10-11/1950	1.74 10-11/1950
Jul.	Amt. Date	1.53 4/1950	2.41 4/1950	2.42 4/1950	2.42 4/1950	2.42 4/1950	3.35 4-5/1950
Aug.	Amt. Date	0.81 19/1950	1.47 19/1950	1.73 19/1950	2.44 19-20/1950	2.62 19-20/1950	2.62 19-20/1950
Sep.	Amt. Date	0.71 22/1950	0.93 22/1949	1.18 10/1950	1.61 10/1950	2.30 10-11/1950	2.38 10/1950
Oct.	Amt. Date	0.44 23/1950	0.58 23/1950	0.69 23/1950	1.01 28/1949	1.30 22-23/1950	1.39 22-23/1950
Nov.	Amt. Date	0.49 4/1950	0.50 4/1950	0.50 4/1950	0.50 4/1950	0.65 4/1950	0.65 4/1950
Dec.	Amt. Date	0.26 4/1950	0.49 4/1950	0.72 4/1950	1.12 4/1950	1.22 3-4/1950	1.34 3-4/1950
Annual	Amt. Date	1.53 7/4/50	2.41 7/4/50	2.42 7/4/50	2.44 8/19-20/50	2.62 8/19-20/50	3.35 7/4-5/50

Station: BELTSVILLE SCS R1, MARYLAND

Drainage basin: POTOMAC

County: MONTGOMERY

Lat. 39° 03'N Long. 76° 57'W

Elev.(ft.) 309

Period of record: 1950

Month	Amt. Date	Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date		N O	R E C O R D			
Feb.	Amt. Date		N O	R E C O R D			
Mar.	Amt. Date		N O	R E C O R D			
Apr.	Amt. Date		N O	R E C O R D			
May	Amt. Date		N O	R E C O R D			
Jun.	Amt. Date		N O	R E C O R D			
Jul.	Amt. Date	1.17 5/1950	1.22 5/1950	1.24 5/1950	1.27 5/1950	1.27 5/1950	1.76 4-5/1950
Aug.	Amt. Date	1.26 19/1950	1.66 19/1950	2.19 19/1950	2.91 19/1950	3.26 19-20/1950	3.26 19-20/1950
Sep.	Amt. Date	0.52 10/1950	0.97 10/1950	1.07 10/1950	1.70 10/1950	2.46 10/1950	2.59 9-10/1950
Oct.	Amt. Date	0.61 23/1950	0.83 23/1950	0.96 23/1950	1.22 23/1950	1.50 22-23/1950	1.60 22-23/1950
Nov.	Amt. Date	0.95 25/1950	1.24 25/1950	1.54 25/1950	2.05 25/1950	2.26 24-25/1950	2.33 24-25/1950
Dec.	Amt. Date	0.29 4/1950	0.55 4/1950	0.80 4/1950	1.20 4/1950	1.42 3-4/1950	1.61 3-4/1950
Annual	Amt. Date	1.26 8/19/50	1.66 8/19/50	2.19 8/19/50	2.91 8/19/50	3.26 8/19-20/50	3.26 8/19-20/50

Station: BETHESDA, MARYLAND

Drainage basin: POTOMAC

County: MONTGOMERY

Lat. 38° 58' Long. 77° 07'

Elev.(ft.) 220

Period of record: 1945-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.32 1/1948	0.54 1/1948	0.66 1/1948	1.06 1/1948	1.41 1/1948	1.61 1-2/1948
Feb.	Amt. Date	0.39 6/1946	0.47 6/1946	0.50 6/1946	0.66 7/1949	0.90 ^a 20/1947	1.04 20-21/1947
Mar.	Amt. Date	0.74 23/1948	0.81 23/1948	0.96 22/1949	1.35 22/1950	1.56 22-23/1950	1.62 22-23/1950
Apr.	Amt. Date	1.15 30/1947	1.75 30/1947	2.12 30/1947	2.19 30/1947	2.19 30/1947	2.19 30/1947
May	Amt. Date	1.24 28/1946	1.69 28/1946	1.69 28/1946	1.70 28/1946	1.99 27-28/1946	2.17 12-13/1948
Jun.	Amt. Date	1.25 29/1946	2.40 29/1946	2.40 29/1946	2.40 29/1946	2.40 29/1946	2.40 29/1946
Jul.	Amt. Date	1.29 11/1947	1.45 11/1947	1.45 11/1947	1.50 11/1947	2.01 31-1/1948	2.77 31-1/1948
Aug.	Amt. Date	1.36 11/1948	1.71 19/1950	2.31 19/1950	3.87 19/1950	4.47 19-20/1950	4.47 19-20/1950
Sep.	Amt. Date	0.93 29/1945	1.05 18/1945	1.29 10/1950	1.81 10/1950	1.85 10/1950	2.73 17-18/1945
Oct.	Amt. Date	0.47 ^b 28/1947	0.67 28/1947	0.84 28/1947	1.26 28/1949	1.53 28-29/1949	1.96 4-5/1948
Nov.	Amt. Date	1.20 6/1948	1.51 6/1948	1.73 6/1948	1.96 6-7/1948	1.99 6-7/1948	1.99 6-7/1948
Dec.	Amt. Date	0.41 4/1950	0.73 4/1950	0.95 4/1950	1.13 4/1950	1.47 3-4/1950	2.03 3-4/1950
Annual	Amt. Date	1.36 8/11/48	2.40 6/29/46	2.40 6/29/46	3.87 8/19/50	4.47 8/19-20/50	4.47 8/19-20/50

^aAlso recorded on 20/1947.

^bAlso recorded on 23/1950.

Station: BOONSBORO (NR), MARYLAND

Drainage basin: POTOMAC

County: WASHINGTON

Lat. 39° 30'N Long. 77° 39'W

Elev.(ft.) 600

Period of record: 1940-1947

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.24 19/1942	0.39 3/1944	0.57 ^a 3/1944	0.88 3/1944	1.20 28/1943	1.54 3-4/1944
Feb.	Amt. Date	0.28 6/1942	0.45 6/1942	0.53 6/1942	0.86 20/1947	1.32 20/1947	1.55 20-21/1947
Mar.	Amt. Date	0.48 17/1943	0.61 ^b 29/1942	0.76 29/1942	1.07 29/1942	1.73 29/1942	2.41 28-29/1942
Apr.	Amt. Date	0.35 30/1947	0.52 5/1941	0.79 5/1941	1.31 5/1941	1.80 5/1941	1.90 4-5/1941
May	Amt. Date	1.23 2/1942	1.35 21-22/1942	1.58 21-22/1942	2.21 27/1946	2.64 26-27/1946	2.80 26-27/1946
Jun.	Amt. Date	1.02 6/1944	1.20 2/1946	1.63 2/1946	2.18 1-2/1946	2.86 1-2/1946	3.07 1-2/1946
Jul.	Amt. Date	0.97 10/1942	1.85 10/1942	1.98 10/1942	2.08 10/1942	2.08 10/1942	2.20 21-22/1947
Aug.	Amt. Date	1.45 31/1944	1.68 12/1942	2.52 12/1942	2.62 12/1942	2.81 12/1942	2.85 12-13/1942
Sep.	Date	0.93 25/1940	1.32 25/1940	1.47 25/1940	1.84 24-25/1940	3.48 24-25/1940	3.92 24-25/1940
Oct.	Amt. Date	0.47 26/1942	0.68 28/1947	0.88 15/1942	1.25 15/1942	1.48 14/1942	2.24 14-15/1942
Nov.	Amt. Date	0.52 8/1943	0.77 8/1943	0.88 8/1943	1.28 8/1943	1.54 8/1943	1.80 8/1943
Dec.	Amt. Date	0.55 24/1941	0.63 24/1941	0.71 13/1941	1.01 13/1941	1.33 13/1941	1.61 12-13/1941
Annual	Amt. Date	1.45 8/31/44	1.85 7/10/42	2.52 8/12/42	2.62 8/12/42	3.48 9/24-25/40	3.92 9/24-25/40

^aAlso recorded on 30/1947.

^bAlso recorded on 17/1943.

Station: COCKEYSVILLE, MARYLAND*

Drainage basin: CHESAPEAKE

County: BALTIMORE

Lat. 39° 27'N Long. 76° 38'W

Elev.(ft.) 420

Period of record: 1941-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.41 1/1945	0.69 1/1948	0.96 1/1948	1.75 1/1948	2.28 1/1948	2.50 1-2/1948
Feb.	Amt. Date	0.34 7/1942	0.65 7/1942	0.80 6-7/1942	1.25 6-7/1942	1.57 6-7/1942	1.67 6-7/1942
Mar.	Amt. Date	0.49 23/1949	0.78 22-23/1949	0.99 22-23/1949	1.30 22/1950	1.48 22-23/1950	1.54 22-23/1950
Apr.	Amt. Date	0.62 25/1945	0.91 30/1947	1.29 30/1947	1.65 30-1/1947	1.83 30-1/1947	1.83 30-1/1947
May	Amt. Date	1.19 22/1942	1.47 20-21/1943	1.81 22/1942	1.85 22/1942	2.40 16/1942	2.75 16/1942
Jun.	Amt. Date	0.77 1/1946	1.16 1/1946	1.28 1/1946	2.08 1-2/1946	3.52 1-2/1946	4.77 1-2/1946
Jul.	Amt. Date	1.36 12/1949	2.09 12/1949	2.30 12/1949	2.82 12/1949	4.39 12/1949	4.89 12-13/1949
Aug.	Amt. Date	1.32 19/1950	2.00 19/1950	2.22 19/1950	2.58 12/1942	3.65 12/1942	4.58 12-13/1942
Sep.	Amt. Date	2.06 9/1945	2.22 9/1945	2.35 9/1945	2.61 9/1945	2.61 9/1945	2.61 9/1945
Oct.	Amt. Date	0.90 28/1947	1.11 28/1947	1.39 28/1947	2.36 26/1943	2.93 26/1943	4.54 25-26/1943
Nov.	Amt. Date	0.61 8/1943	1.16 8/1943	1.46 8/1943	1.84 8/1943	2.16 8-9/1943	2.57 8-9/1943
Dec.	Amt. Date	0.45 4/1950	0.90 4/1950	1.27 4/1950	1.79 4/1950	2.16 3-4/1950	2.29 3-4/1950
Annual	Amt. Date	2.06 9/9/45	2.22 9/9/45	2.35 9/9/45	2.82 7/12/49	4.39 7/12/49	4.89 7/12-13/49

*Formerly Hereford, Md.

Station: COLLEGE PARK (SCS), MARYLAND

Drainage basin: POTOMAC

County: MONTGOMERY

Lat. 39° 03' N Long. 76° 57'

Elev.(ft.) 309

Period of record: 1940-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.40 26/1947	0.59 26/1947	0.63 26/1947	1.03 28/1943	1.51 3/1944	2.08 3-4/1944
Feb.	Amt. Date	0.29 6/1946	0.47 6/1942	0.58 6/1942	0.92 6-7/1942	1.13 20/1947	1.25 20-21/1947
Mar.	Amt. Date	0.42 23/1948	0.73 22-23/1949	0.88 23/1948	1.24 2-3/1942	1.47 2-3/1942	1.58 2-3/1942
Apr.	Amt. Date	0.82 30/1947	1.21 30/1947	1.63 30/1947	1.63 30/1947	1.63 30/1947	1.64 30/1947
May	Amt. Date	0.81 22/1942	1.02 22/1942	1.08 22/1942	1.43 22/1949	1.64 15/1950	1.94 11-12/1943
Jun.	Amt. Date	1.20 27/1946	1.45 21/1945	1.46 21/1945	1.58 13/1947	1.91 21/1945	2.36 13-14/1947
Jul.	Amt. Date	1.79 22/1945	1.81 22/1945	1.81 22/1945	1.87 23/1946	2.35 22-23/1946	3.60 22-23/1946
Aug.	Amt. Date	1.37 10/1942	1.64 2/1944	2.01 2/1944	3.23 2/1944	4.62 2/1944	4.97 2/1944
Sep.	Amt. Date	1.07 13/1944	1.70 13/1944	1.82 13/1944	2.14 13/1944	3.10 13/1944	3.21 12-13/1944
Oct.	Amt. Date	1.21 15/1942	2.01 15/1942	2.30 15/1942	2.57 15/1942	2.69 15-16/1942	3.33 25-26/1943
Nov.	Amt. Date	1.42 8/1943	2.36 8/1943	2.97 8/1943	3.26 8/1943	3.53 8-9/1943	3.75 8-9/1943
Dec.	Amt. Date	0.47 13/1941	0.82 13/1941	1.07 13/1941	1.55 13/1941	1.87 12-13/1941	2.12 12-13/1941
Annual	Amt. Date	1.79 7/22/45	2.36 11/8/43	2.97 11/8/43	3.26 11/8/43	4.62 8/2/44	4.97 8/2/44

Station: GLEN ECHO, MARYLAND

Drainage basin: POTOMAC

County: MONTGOMERY

Lat. 38° 58'N Long. 77° 09'W

Elev.(ft.) 150

Period of record: 1944-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.30 1/1948	0.53 1/1945	0.70 1/1945	1.11 1/1945	1.38 1/1948	1.55 1-2/1948
Feb.	Amt. Date	0.18a 19/1946	0.33 19/1946	0.44 19/1946	0.67 20/1947	1.16 20/1947	1.35 20-21/1947
Mar.	Amt. Date	0.44 23/1949	0.79 23/1949	1.00 22-23/1949	1.40 22-23/1949	1.50b 22-23/1949	1.58 22-23/1950
Apr.	Amt. Date	1.36 30/1947	1.79 30/1947	2.16 30/1947	2.16 30/1947	2.16 30/1947	2.16 30/1947
May	Amt. Date	1.20 28/1946	1.20 28/1946	1.20 28/1946	1.29 22-28/1946	1.77 27-28/1946	2.12 12-13/1948
Jun.	Amt. Date	1.59 10/1950	2.49 10/1950	2.54 10/1950	2.94 10/1950	3.10 10/1950	3.10 10/1950
Jul.	Amt. Date	1.61 26/1945	1.88 26/1945	1.92 26/1945	1.93 26-27/1945	1.93 26-27/1945	2.61 31-1/1948
Aug.	Amt. Date	1.01 2/1944	1.60 2/1944	2.02 2/1944	2.71 2/1944	3.91 2/1944	4.18 2-3/1944
Sep.	Amt. Date	1.24 1/1944	1.25c 1/1944	1.34 13/1944	1.68 13/1944	3.12 13/1944	3.27 12-13/1944
Oct.	Amt. Date	0.99 28/1947	1.19 28/1947	1.37 28/1947	1.47 28/1947	1.72 28/1947	2.06 5/1948
Nov.	Amt. Date	1.18 6/1948	1.48 6/1948	1.67 6/1948	2.12 6-7/1948	2.13 6-7/1948	2.13 6-7/1948
Dec.	Amt. Date	0.69 4/1950	0.98 4/1950	1.34 4/1950	1.54 4/1950	1.76 3-4/1950	2.20 3-4/1950
Annual	Amt. Date	1.61 7/26/45	2.49 6/10/50	2.54 6/10/50	2.94 6/10/50	3.91 8/2/44	4.18 8/2-3/44

^aAlso recorded on 20/1947.

^bAlso recorded on 22-23/1950.

^cAlso recorded on 13/1944.

Station: GRANISVILLE, MARYLAND

Drainage basin: OHIO

County: GARRETT

Lat. 39° 42'N Long. 79° 09'W

Elev.(ft.) 2300

Period of record: 1948-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.45 31/1950	0.50 31/1950	0.56 31/1950	0.72 31/1949	1.15 31/1950	1.21 31/1950
Feb.	Amt. Date	0.65 22/1949	0.68 22/1949	0.70 22/1949	0.77 22/1949	0.86 22/1949	0.87 22-23/1949
Mar.	Amt. Date	0.27 20/1950	0.49 20/1950	0.59 20/1950	0.95 20/1950	1.26 20-21/1950	1.39 20-21/1950
Apr.	Amt. Date	0.42 24/1950	0.63 24/1950	0.72 24/1950	0.86 24/1950	0.91 24/1950	0.94 24/1950
May	Amt. Date	0.26 22/1949	0.49 22/1949	0.50 22/1949	0.62 15/1950	0.79 15/1950	0.95 21-22/1949
Jun.	Amt. Date	0.76 28/1949	0.77 28/1949	0.81 28/1949	0.89 10/1950	1.01 10/1950	1.19 16-17/1949
Jul.	Amt. Date	0.60 10/1950	0.89 10/1950	1.02 10/1950	1.28 9-10/1950	1.61 12/1949	1.74 12/1949
Aug.	Amt. Date	0.58 19/1950	0.87 1/1950	0.87 1/1950	1.13 1/1950	1.58 31-1/1950	1.59 31-1/1950
Sep.	Amt. Date	0.67 19/1949	0.95 21/1950	1.09 21/1950	1.70 21/1950	2.57 21/1950	2.97 21-22/1950
Oct.	Amt. Date	0.18 ^a 14/1949	0.30 ^b 5/1948	0.46 14/1949	0.62 14/1949	0.92 7-8/1948	1.11 7-8/1948
Nov.	Amt. Date	0.30 6/1948	0.40 6/1948	0.50 25/1950	0.91 25/1950	1.21 24-25/1950	1.33 24-25/1950
Dec.	Amt. Date	0.27 15/1948	0.41 15/1948	0.60 15/1948	1.14 15/1948	1.44 15/1948	2.08 15-16/1948
Annual	Amt. Date	0.76 6/28/49	0.95 9/21/50	1.09 9/21/50	1.70 9/21/50	2.57 9/21/50	2.97 9/21-22/50

^aAlso recorded on 28/1950.

^bAlso recorded on 14/1949 and 28/1950.

Station: KEEDYSVILLE, MARYLAND

Drainage basin: POTOMAC

County: WASHINGTON

Lat. 39° 29'N Long. 77° 42'W

Elev.(ft.) 420

Period of record: 1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.11 31/1950	0.20 31/1950	0.26 31/1950	0.46 31-1/1950	0.66 31-1/1950	0.83 31-1/1950
Feb.	Amt. Date	0.24 9/1950	0.41 9/1950	0.56 9/1950	0.79 9/1950	0.87 9/1950	0.87 9/1950
Mar.	Amt. Date	0.27 22/1950	0.49 22/1950	0.68 22/1950	1.06 22/1950	1.35 22-23/1950	1.51 22-23/1950
Apr.	Amt. Date	0.18 23/1950	0.23 23/1950	0.27 23/1950	0.37 23/1950	0.40 23/1950	0.46 22-23/1950
May	Amt. Date	0.52 23/1950	0.61 23/1950	0.83 15/1950	1.21 15/1950	1.47 15/1950	1.51 15/1950
Jun.	Amt. Date	0.21 20/1950	0.21 20/1950	0.24 4/1950	0.43 4/1950	0.58 3-4/1950	0.68 3-4/1950
Jul.	Amt. Date	0.37 3/1950	0.41 3/1950	0.41 3/1950	0.41 3/1950	0.44 9-10/1950	0.47 9-10/1950
Aug.	Amt. Date	1.94 19/1950	2.07 19/1950	2.09 19/1950	2.21 19/1950	2.28 19-20/1950	2.34 19-20/1950
Sep.	Amt. Date	0.86 1/1950	1.07 1/1950	1.11 1/1950	1.26 1/1950	1.69 21/1950	1.90 21-22/1950
Oct.	Amt. Date	0.32 23/1950	0.56 8/1950	0.71 8/1950	0.83 8/1950	1.09 8-9/1950	1.44 8-9/1950
Nov.	Amt. Date	0.70 25/1950	1.25 25/1950	1.60 25/1950	2.42 25/1950	3.34 25-26/1950	3.34 25-26/1950
Dec.	Amt. Date	0.39 4/1950	0.73 4/1950	1.00 4/1950	1.89 4/1950	2.51 3-4/1950	2.63 3-4/1950
Annual	Amt. Date	1.94 8/19/50	2.07 8/19/50	2.09 8/19/50	2.42 11/25/50	3.34 11/25-26/50	3.34 11/25-26/50

Station: LEONARDTOWN, MARYLAND

Drainage basin: POTOMAC

County: ST MARYS

Lat. 38° 15'N Long. 76° 39'W

Elev.(ft.) 20

Period of record: 1944-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.79 21/1949	1.13 21/1949	1.34 21/1949	1.90 21/1949	2.34 21/1949	2.79 12-13/1948
Feb.	Amt. Date	0.24 28/1949	0.35 28/1949	0.45 28/1949	0.59 19/1946	0.99 20/1947	1.14 20-21/1947
Mar.	Amt. Date	0.62 23/1949	0.89 23/1949	0.95 23/1949	1.01 22/1950	1.14 6-7/1948	1.15 22-23/1950
Apr.	Amt. Date	1.14 12/1947	1.87 12/1947	1.88 12/1947	1.90 12/1947	1.92 11-12/1947	1.92 11-12/1947
May	Amt. Date	1.02 17/1945	1.05 22/1947	1.23 22/1947	1.78 25/1947	2.29 25/1947	2.29 25/1947
Jun.	Amt. Date	1.83 10/1945	2.26 10/1945	2.27 10-11/1945	2.64 10-11/1945	2.65 10-11/1945	2.69 10/1945
Jul.	Amt. Date	1.30 9/1945	1.50 9/1945	1.65 9/1945	2.51 17/1945	3.18 17/1945	5.38 17-18/1945
Aug.	Amt. Date	2.02 20/1950	2.23 20/1950	2.44 20/1950	3.20 3/1948	3.45 3/1948	5.67 3-4/1948
Sep.	Amt. Date	1.31 13/1944	1.41 13/1944	1.47 13/1944	1.61 13/1944	1.79 20-21/1946	2.24 20-21/1946
Oct.	Amt. Date	1.27 31/1949	1.56 31/1949	1.73 31/1949	2.32 31/1949	3.15 30-31/1949	3.26 30-31/1949
Nov.	Amt. Date	0.51 4/1950	0.80 25/1950	1.00 25/1950	1.33 1/1949	1.64 27/1944	2.00 27/1944
Dec.	Amt. Date	0.28 25/1945	0.49 25/1945	0.58 25/1945	0.78 30/1948	1.14 30/1948	1.43 3-4/1948
Annual	Amt. Date	2.02 8/20/50	2.26 6/10/45	2.44 8/20/50	3.20 8/3/48	3.45 8/3/48	5.67 8/3-4/48

Station: LUKE, MARYLAND

Drainage basin: POTOMAC

County: ALLEGANY

Lat. 39° 29' N Long. 79° 03' W

Elev.(ft.) 950

Period of record: 1943-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.31 1/1948	0.58 1/1948	0.80 1/1948	1.40 1/1948	1.75 1/1948	1.85 1-2/1948
Feb.	Amt. Date	0.30 9/1950	0.59 9/1950	0.79 9/1950	0.90 8-9/1950	1.23 25-26/1944	1.33 25-26/1944
Mar.	Amt. Date	0.51 21/1945	0.57 23/1948	0.69 6/1944	0.76 23-24/1948	0.97 20-21/1950	1.23 4-5/1944
Apr.	Amt. Date	0.40 8/1948	0.65 12/1948	0.87 12/1948	1.21 12/1948	1.36 12/1948	1.71 12/1948
May	Amt. Date	1.02 3/1947	1.22 3/1947	1.41 9/1949	1.52 9/1949	1.97 6/1944	2.22 6-7/1944
Jun.	Amt. Date	0.90 23/1944	0.95 15/1945	1.40 23/1944	1.82 17/1949	2.50 17/1949	3.08 17-18/1949
Jul.	Amt. Date	1.29 3/1948	2.10 3/1948	2.32 3/1948	2.99 12/1949	3.39 12/1949	3.40 12/1949
Aug.	Amt. Date	1.26 22/1947	1.46 22/1947	1.47 22/1947	1.74 17-18/1949	2.08 23-24/1945	2.67 23-24/1945
Sep.	Amt. Date	1.20 8/1945	1.50 8/1945	1.74 8/1945	1.91 8/1945	2.18 8-9/1945	2.48 21-22/1950
Oct.	Amt. Date	0.61 9/1950	1.19 9/1950	1.39 9/1950	1.64 20/1944	2.29 20/1944	2.60 20-21/1944
Nov.	Amt. Date	0.30 3/1947	0.52 3/1947	0.80 3/1947	1.20 3/1947	1.32 3/1947	1.44 3-4/1947
Dec.	Amt. Date	0.26 7/1950	0.52 7/1950	0.74 7/1950	0.83 7/1950	1.29 15-16/1948	1.99 15-16/1948
Annual	Amt. Date	1.29 7/3/48	2.10 7/3/48	2.32 7/3/48	2.99 7/12/49	3.39 7/12/49	3.40 7/12/49

Station: NEW GERMANY, MARYLAND

Drainage basin: SUSQUEHANNA

County: GARRETT

Lat. 39° 38'N Long. 79° 07'W

Elev.(ft.) 2490

Period of record: 1949-1950

Month	Amt. Date	Duration (hours)					
		1	2	3	6	12	24
Jan.		N O R E C O R D					
Feb.							
Feb.	Amt. Date	0.19 9/1950	0.32 9/1950	0.40 9/1950	0.50 9/1950	0.65 8-9/1950	0.68 8-9/1950
Mar.	Amt. Date	0.17 20/1950	0.26 20/1950	0.40 20/1950	0.57 20/1950	0.91 20-21/1950	0.95 20-21/1950
Apr.	Amt. Date	0.20 ^a 23/1950	0.32 24/1950	0.38 23/1950	0.55 24/1950	0.62 24/1950	0.72 23-24/1950
May	Amt. Date	0.36 27/1950	0.39 27/1950	0.45 25/1950	0.63 15/1950	0.86 15/1950	0.86 15/1950
Jun.	Amt. Date	0.42 24/1950	0.69 24/1950	0.77 24/1950	0.77 24/1950	0.77 24/1950	0.77 24/1950
Jul.	Amt. Date	0.51 10/1950	0.77 9-10/1950	1.00 9-10/1950	1.12 9-10/1950	1.12 9-10/1950	1.14 9-10/1950
Aug.	Amt. Date	0.44 19/1950	0.60 19/1950	0.64 19/1950	0.67 19/1950	0.72 19/1950	1.08 19/1950
Sep.	Amt. Date	0.84 21/1950	1.30 21/1950	1.63 21/1950	2.69 21/1950	3.33 21/1950	3.83 21/1950
Oct.	Amt. Date	0.25 15/1949	0.36 15/1949	0.48 15/1949	0.74 15/1949	0.94 15-16/1949	0.94 15-16/1949
Nov.	Amt. Date	0.28 28/1949	0.50 28-29/1949	0.67 28-29/1949	0.91 24-25/1950	1.14 24-25/1950	1.34 24-25/1950
Dec.	Amt. Date	0.23 7/1950	0.46 7/1950	0.65 7/1950	0.75 7/1950	0.80 ^b 26/1949	0.80 ^c 26/1949
Annual	Amt. Date	0.84 9/21/50	1.30 9/21/50	1.63 9/21/50	2.69 9/21/50	3.33 9/21/50	3.83 9/21/50

^aAlso recorded on 24/1950.

^bAlso recorded on 7/1950.

^cAlso recorded on 7/1950.

Station: ROHERSVILLE, MARYLAND

Drainage basin: POTOMAC

County: WASHINGTON

Lat. 39° 26'N Long. 77° 40'W

Elev.(ft.) 500 (Estimated)

Period of record: 1940-1947

Month	Amt. Date	Duration (hours)					
		1	2	3	6	12	24
Jan.	0.45 30/1947	0.56 30/1947	0.76 30/1947	0.93 3/1944	1.26 28/1943	1.86 3-4/1944	
Feb.	0.23 6/1942	0.45 6/1942	0.62 20/1947	1.01 20/1947	1.46 20/1947	1.62 20-21/1947	
Mar.	0.48 17/1943	0.60 17/1943	0.80 17/1943	1.01 17/1943	1.32 29/1942	2.07 28-29/1942	
Apr.	0.54 30/1947	0.55 30/1947	0.70 5/1941	1.22 5/1941	1.68 5/1941	1.81 4-5/1941	
May	0.73 29/1947	0.92 16/1942	1.12 16/1942	1.50 16/1942	1.71 26-27/1946	2.16 21-22/1942	
Jun.	0.67 2/1946	1.31 2/1946	1.82 2/1946	2.52 1-2/1946	3.00 1-2/1946	3.19 1-2/1946	
Jul.	1.43 20/1942	1.43 20/1942	1.45 10/1942	1.63 10/1942	1.84 15/1945	1.94 14-15/1945	
Aug.	0.84 31/1944	1.30 30/1945	1.36 6/1946	1.36a 30-31/1945	1.46 8/1942	2.02 8/1942	
Sep.	1.19 13/1944	1.47 12-13/1944	1.69 12-13/1944	2.00 25/1940	3.76 24-25/1940	4.04 24-25/1940	
Oct.	0.45 7/1944	0.64 12/1946	0.81 12/1946	1.14 14/1942	1.58 13-14/1942	2.42 14-15/1942	
Nov.	0.88 8/1943	1.16 8/1943	1.84 8/1943	2.19 8/1943	2.52 8/1943	2.88 8/1943	
Dec.	0.63 24/1941	0.81 4/1941	0.86 4/1941	1.16 4-5/1941	1.40 13/1941	1.65 12-13/1941	
Annual	Amt. Date	1.43 7/20/42	1.47 9/12-13/44	1.84 11/8/43	2.52 6/1-2/46	3.76 9/24-25/40	4.04 9/24-25/40

^aAlso recorded on 6/1946.

Station: SAVAGE RIVER DAM, MARYLAND

Drainage basin: POTOMAC

County: GARRETT

Lat. 39° 30'N Long. 79° 08'W

Elev.(ft.) 1460

Period of record: 1949-1950

Month	Amt. Date	Duration (hours)					
		1	2	3	6	12	24
Jan.	0.17 29/1950	0.30 29/1950	0.37 29/1950	0.47 29/1950	0.69 29-30/1950	0.72 29-30/1950	
Feb.	0.28 9/1950	0.50 9/1950	0.71 9/1950	0.83 9/1950	0.92 9/1950	0.95 9/1950	
Mar.	0.12 8/1950	0.19 21/1950	0.27 21/1950	0.39 13/1950	0.58 20-21/1950	0.64 12-13/1950	
Apr.	0.31 30/1950	0.50 30/1950	0.50 30/1950	0.50 30/1950	0.51 30/1950	0.98 30/1950	
May	0.29 2/1950	0.42 2/1950	0.52 2-3/1950	0.78 15/1950	1.06 15/1950	1.06 15/1950	
Jun.	0.38 10/1950	0.39 10/1950	0.44 10/1950	0.62 18-19/1950	0.72 18-19/1950	0.72 18-19/1950	
Jul.	0.66 10/1950	0.89 10/1950	1.00 10/1950	1.20 9-10/1950	1.23 9-10/1950	1.24 9-10/1950	
Aug.	0.17 30/1950	0.20 30/1950	0.21 30/1950	0.33 30/1950	0.35 30/1950	0.35 30/1950	
Sep.	0.49 21/1950	0.81 21/1950	1.21 21/1950	1.93 21/1950	2.85 21/1950	3.36 21-22/1950	
Oct.	0.26 15/1949	0.35 9/1950	0.42 14/1949	0.58 14/1949	0.97 14-15/1949	0.99 14-15/1949	
Nov.	0.22 29/1949	0.38 28-29/1949	0.50 28-29/1949	0.73 28-29/1949	1.12 28-29/1949	1.12 28-29/1949	
Dec.	0.26 7/1950	0.50 7/1950	0.66 7/1950	0.78 7/1950	0.99 7/1950	1.00 7/1950	
Annual	0.66 7/10/50	0.89 7/10/50	1.21 9/21/50	1.93 9/21/50	2.85 9/21/50	3.36 9/21-22/50	

Station: SHARPTOWN, MARYLAND

Drainage basin: CHESAPEAKE

County: WICOMICO

Lat. 38° 33'N Long. 75° 43'W

Elev.(ft.) 10

Period of record: 1941-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.40 1/1948	0.68 1/1948	0.78 1/1948	1.01 3/1944	1.74 13/1948	2.66 12-13/1948
Feb.	Amt. Date	0.28 19/1946	0.44 14/1946	0.59 6-7/1942	0.90 6-7/1942	1.10 13/1945	1.10 13/1945
Mar.	Amt. Date	0.61 28/1950	0.87 2-3/1942	1.14 2-3/1942	1.37 2-3/1942	1.70 31-1/1948	1.75 31-1/1948
Apr.	Amt. Date	0.61 16/1947	0.96 16/1947	1.29 16/1947	1.46 16/1947	1.71 1/1948	1.75 31-1/1948
May	Amt. Date	2.16 15/1950	2.46 15/1950	2.67 15/1950	3.01 15/1950	3.17 15/1950	3.44 15-16/1950
Jun.	Amt. Date	1.20 2/1945	1.46 2/1945	1.79 2/1945	2.38 2-3/1945	2.45 2-3/1945	2.45 2-3/1945
Jul.	Amt. Date	1.39 20/1945	2.08 2/1946	2.70 2/1946	4.22 2/1946	4.50 2/1946	4.53 2/1946
Aug.	Amt. Date	2.08 18/1946	2.31 18/1946	2.38 23/1945	2.43 23/1945	2.70 19-20/1941	3.05 3-4/1948
Sep.	Amt. Date	0.98 14/1944	1.83 14/1944	2.50 14/1944	3.15 14/1944	3.20 14/1944	3.25 14-15/1944
Oct.	Amt. Date	0.69 23/1945	1.29 23/1945	1.65 23/1945	2.16 23/1945	2.54 5/1948	3.49 5-6/1948
Nov.	Amt. Date	0.86 1/1949	1.34 1/1949	1.57 1/1949	1.89 1/1949	2.15 24-25/1950	2.46 27-28/1944
Dec.	Amt. Date	0.48 13/1941	0.68 13/1941	0.95 5/1945	1.61 5/1945	2.16 5/1945	2.34 5-6/1945
Annual	Amt. Date	2.16 5/15/50	2.46 5/15/50	2.70 7/2/46	4.22 7/2/46	4.50 7/2/46	4.53 7/2/46

Station: SINES DEEP CREEK, MARYLAND

Drainage basin: YOUGHIOGHENY

County: GARRETT

Lat. 39° 30'N Long. 79° 25'W

Elev.(ft.) 2030

Period of record: 1948-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.28 31/1950	0.50 31/1950	0.66 31/1950	1.12 31/1950	1.54 30-31/1950	1.69 30-31/1950
Feb.	Amt. Date	0.32 22/1949	0.52 22/1949	0.68 22/1949	0.89 8-9/1950	1.09 8-9/1950	1.15 8-9/1950
Mar.	Amt. Date	0.27 31/1949	0.34 13/1950	0.52 31/1949	0.82 13/1950	1.02 31/1949	1.16 31-1/1949
Apr.	Amt. Date	0.19 1/1950	0.36 1/1950	0.41 ^E 23/1950	0.57 ^E 23/1950	0.77 23/1950	1.16 31-1/1949
May	Amt. Date	1.32 27/1950	1.38 27/1950	1.42 27/1950	1.75 27-28/1950	1.82 27-28/1950	1.84 27-28/1950
Jun.	Amt. Date	0.95 18/1949	1.01 18/1949	1.06 18/1949	1.20 18/1949	1.46 10/1950	2.35 17-18/1949
Jul.	Amt. Date	0.99 14/1949	1.22 12/1949	1.70 12/1949	2.80 12/1949	3.50 12/1949	3.55 12/1949
Aug.	Amt. Date	0.89 2/1949	0.91 2/1949	0.93 2/1949	0.93 2/1949	1.03 17-18/1949	1.31 19/1950
Sep.	Amt. Date	1.93 11/1950	2.02 11/1950	2.03 11/1950	2.30 21/1950	3.03 21/1950	3.59 21-22/1950
Oct.	Amt. Date	0.28 9/1950	0.49 14/1949	0.57 ^a 14/1949	0.79 14/1949	0.87 14-15/1949	1.11 14-15/1949
Nov.	Amt. Date	0.24 2/1950	0.42 29/1949	0.52 29/1949	0.81 ^E 28-29/1949	1.33 28-29/1949	1.41 28-29/1949
Dec.	Amt. Date	0.47 15/1948	0.67 15/1948	0.97 15/1948	1.38 15/1948	1.98 15/1948	2.82 15-16/1948
Annual	Amt. Date	1.93 9/11/50	2.02 9/11/50	2.03 9/11/50	2.80 7/12/49	3.50 7/12/49	3.59 9/21-22/50

^aAlso recorded on 9/1950.

Station: UNIONVILLE, MARYLAND

Drainage basin: POTOMAC

County: FREDERICK

Lat. 39° 27' N Long. 77° 11' W

Elev. (ft.) 430

Period of record: 1940-1950

Month	Amt. Date	Duration (hours)					
		1	2	3	6	12	24
Jan.	0.48 1/1948	0.81 1/1948	1.12 1/1948	1.88 1/1948	2.47 1/1948	3.18 3-4/1944	
Feb.	0.27 ^a 6/1942	0.49 26/1945	0.67 26/1945	0.96 26/1946	1.02 20/1947	1.17 ^b 18-19/1940	
Mar.	0.36 22/1950	0.68 22/1950	0.96 2/1950	1.47 22/1950	1.97 22-23/1950	2.13 22-23/1950	
Apr.	0.42 30/1947	0.55 18/1949	0.72 18/1949	1.12 5/1941	1.68 8/1940	2.13 8/1940	
May	2.89 21/1942	3.12 21/1942	3.65 21/1942	3.82 21/1942	4.19 21/1942	4.99 21-22/1942	
Jun.	1.97 23/1944	2.21 12/1942	2.23 12/1942	2.73 1-2/1946	3.81 1-2/1946	5.59 1-2/1946	
Jul.	1.47 2/1941	2.06 31/1945	2.78 2/1941	2.86 2/1941	2.86 2/1941	2.87 2-3/1941	
Aug.	1.54 13/1942	2.38 13/1942	2.40 13/1942	4.07 13/1942	4.14 13-14/1942	4.14 13-14/1942	
Sep.	1.25 25/1940	1.37 25/1940	1.45 25/1940	2.38 25/1940	4.02 24-25/1940	4.21 24-25/1940	
Oct.	0.70 16/1943	0.93 16/1943	1.06 16/1943	1.69 15/1942	1.83 15-16/1942	2.76 15-16/1942	
Nov.	1.20 25/1950	1.52 25/1950	1.93 25/1950	2.52 25/1950	2.91 24-25/1950	3.01 24-25/1950	
Dec.	0.55 8/1944	0.83 4/1950	1.17 4/1950	1.63 3-4/1950	1.83 3-4/1950	1.90 28-29/1948	
Annual	2.89 5/21/42	3.12 5/21/42	3.65 5/21/42	4.07 8/13/42	4.19 5/21/42	5.59 6/1-2/46	

^aAlso recorded on 26/1945.

^bAlso recorded on 20-21/1947.

Station: WASHINGTON WB CITY, DISTRICT OF COLUMBIA*

Drainage basin: POTOMAC

County: DISTRICT OF COLUMBIA

Lat. 38° 54'N Long. 77° 03'W

Elev.(ft.) 72

Period of record: 1940-1950 ONLY

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.39 18/1943	0.57 1/1948	0.68 1/1948	1.04 1/1948	1.45 28/1943	1.72 3-4/1944
Feb.	Amt. Date	0.30 6/1942	0.50 6/1942	0.69 6/1942	1.04 6-7/1942	1.22 6-7/1942	1.25 6-7/1942
Mar.	Amt. Date	0.66 23/1948	0.98 23/1948	1.26 23/1948	1.29 23-24/1948	1.56 28-29/1942	1.88 23-24/1948
Apr.	Amt. Date	0.77 30/1947	1.09 30/1947	1.12 30/1947	1.49 20/1940	2.02 19-20/1940	2.30 19-20/1940
May	Amt. Date	0.86 ^a 18/1946	1.25 15/1950	1.28 15/1950	1.58 13/1948	1.94 12-13/1948	2.18 12-13/1948
Jun.	Amt. Date	1.67 10/1945	2.16 10/1945	2.23 10/1945	2.23 10/1945	3.35 26-27/1942	3.40 26-27/1942
Jul.	Amt. Date	1.32 ^b 13/1941	2.29 23/1940	2.55 23/1940	2.60 23/1940	2.60 23/1940	2.76 31-1/1948
Aug.	Amt. Date	2.11 2/1944	3.23 2/1944	3.91 2/1944	4.71 2/1944	5.89 2/1944	6.15 2-3/1944
Sep.	Amt. Date	1.16 23/1946	1.84 10/1950	2.04 10/1950	2.73 10/1950	2.97 10/1950	3.12 9-10/1950
Oct.	Amt. Date	1.54 15/1942	2.19 15/1942	2.31 15/1942	2.51 15/1942	2.59 15-16/1942	3.01 15-16/1942
Nov.	Amt. Date	1.42 8/1943	2.02 8/1943	2.54 8/1943	2.70 8/1943	3.03 8-9/1943	3.20 8-9/1943
Dec.	Amt. Date	0.58 ^c 5/1941	0.79 4/1950	1.12 4/1950	1.46 4/1950	1.93 13/1941	2.21 12-13/1941
Annual	Amt. Date	2.11 8/2/44	3.23 8/2/44	3.91 8/2/44	4.71 8/2/44	5.89 8/2/44	6.15 8/2-3/44

*Given for comparative purposes. See next page for complete record.

^aAlso recorded on 22/1947 and 2/1949. ^bAlso recorded on 10/1942.

^cAlso recorded on 4/1950.

August 2 and 3 hour and all of November are true maxima.

Station: WASHINGTON WB CITY, DISTRICT OF COLUMBIA

Drainage basin: POTOMAC

County: DISTRICT OF COLUMBIA

Lat. 38° 54'N Long. 77° 03'W

Elev.(ft.) 72

Period of record: 1889-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.57 24/1899	0.88 21/1902	1.23 21/1902	1.41 3/1914	1.72 2-3/1936	2.98 12-13/1915
Feb.	Amt. Date	0.62 21/1937	0.79 28/1939	0.96 28/1939	1.26 16/1899	1.60 4/1932	2.29 6/1896
Mar.	Amt. Date	1.02 24/1905	1.19 24/1905	1.34 27-28/1932	1.76 27-28/1932	2.06 27-28/1932	2.80 3-4/1909
Apr.	Amt. Date	0.78 21/1927	1.15 21/1927	1.52 11/1919	1.90 11/1919	2.37 11-12/1913	3.20 11-12/1913
May	Amt. Date	1.57 3/1936	1.88 3/1936	2.17 3/1936	2.94 19/1900	3.14 19/1900	3.50 7-8/1889
Jun.	Amt. Date	2.66 8/1900	3.22 2/1900	3.45 2/1900	3.48 2/1900	3.56 1-2/1900	3.56 1-2/1900
Jul.	Amt. Date	2.79 13/1922	3.33 5/1905	3.47 5/1905	3.69 5/1905	3.72 5-6/1905	4.22 5-6/1905
Aug.	Amt. Date	2.48 24/1906	3.23 2/1944	3.91 2/1944	5.38 11-12/1928	6.20 11-12/1928	7.31 11-12/1928
Sep.	Amt. Date	3.42 12/1934	3.91 4/1939	4.14 2/1922	5.15 2/1922	5.16 2/1922	5.16 2/1922
Oct.	Amt. Date	2.29 20/1910	2.63 20/1910	2.86 19-20/1910	3.10 19-20/1910	3.62 19-20/1910	3.67 19-20/1910
Nov.	Amt. Date	1.42 8/1943	2.02 8/1943	2.54 8/1943	2.70 8/1943	3.03 8-9/1943	3.20 8-9/1943
Dec.	Amt. Date	0.59 14/1918	1.06 13/1909	1.35 13/1909	1.68 13/1909	2.22 13/1909	2.43 13/1909
Annual	Amt. Date	3.42 9/12/34	3.91 9/4/39	4.14 9/2/22	5.38 8/11-12/28	6.20 8/11-12/28	7.31 8/11-12/28

All values are true maxima

Station: WASHINGTON (NATL AIRPORT), D. C.

Drainage basin: POTOMAC

County: DISTRICT OF COLUMBIA

Lat. 38° 51'N Long. 77° 02'W

Elev.(ft.) 14

Period of record: 1943-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.42 1/1948	0.61 1/1948	0.77 1/1948	1.06 1/1948	1.40 28/1943	1.73 12-13/1948
Feb.	Amt. Date	0.27 19/1946	0.41 19/1946	0.62 19/1946	0.80 19/1946	0.93 19/1946	0.93 19/1946
Mar.	Amt. Date	0.36 22/1950	0.63 22/1950	0.92 31-1/1948	1.25 31-1/1948	1.75 31-1/1948	1.77 31-1/1948
Apr.	Amt. Date	0.58 27/1950	0.88 1/1948	1.10 1/1948	1.25 31-1/1948	1.75 31-1/1948	1.77 31-1/1948
May	Amt. Date	1.08 28/1943	1.34 30/1948	1.60 22/1949	1.76 22/1949	2.25 13/1948	2.62 12-13/1948
Jun.	Amt. Date	1.47 7/1947	2.91 7/1947	3.20 7/1947	3.44 7/1947	3.44 7/1947	3.67 7-8/1947
Jul.	Amt. Date	1.84 27/1944	1.85 27/1944	1.85 27/1944	1.85 27/1944	2.04 17-18/1945	3.67 31-1/1948
Aug.	Amt. Date	1.51 19/1950	2.62 23/1950	3.39 2/1944	4.26 2/1944	5.18 2/1944	5.31 2-3/1944
Sep.	Amt. Date	0.91 15/1947	1.67 10/1950	1.76 10/1950	2.21 10/1950	2.70 10/1950	2.97 9-10/1950
Oct.	Amt. Date	0.74 28/1947	0.94 28/1947	1.01 28/1947	1.40 28/1949	1.81 22-23/1950	2.33 25-26/1943
Nov.	Amt. Date	0.82 8/1943	1.42 8/1943	1.97 8/1943	2.36 8/1943	3.03 8-9/1943	3.13 8-9/1943
Dec.	Amt. Date	0.46 4/1950	0.76 4/1950	0.91 4/1950	1.32 4/1950	1.45 3-4/1950	1.63 3-4/1950
Annual	Amt. Date	1.84 7/27/44	2.91 6/7/47	3.39 8/2/44	4.26 8/2/44	5.18 8/2/44	5.31 8/2-3/44

