



## Weather Bureau Technical Papers

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## 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 prepared<sup>1</sup>. 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 reports<sup>2</sup> of other surveys supplementing the recording-gage data with

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

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 27 stations with five years or more of record are shown in table 3.

A. E. Brown, Jr. supervised the project for New Jersey. James L. Keister compiled the data which were then checked by John T. Lindgren. Marian I. Hammer did the typing.

Table 1. - Maximum Monthly Amounts for New Jersey

Duration (hours)	Maximum Amount	Location	Date	Duration (hours)	Maximum Amount	Location	Date
JANUARY							
1	0.80	Lakehurst	1/1948	1	2.43	Atlantic City	23/1945
2	0.97	Lakehurst	1/1948	2	3.83	Atlantic City	22/1903
		Sandy Hook	1/1923	3	4.35	Atlantic City	22/1903
3	1.37	Sandy Hook	1/1923	6	5.38	Atlantic City	22/1903
6	1.80	Atlantic City	23/1919	12	6.41	New Milford	23/1946
12	2.59	Atlantic City	1-2/1948	24	7.58	New Milford	22-23/1946
24	2.97	Rahway	3-4/1944	AUGUST			
FEBRUARY							
1	0.68	Sandy Hook	20/1924	1	3.98	Atlantic City	21/1933
2	1.09	Sandy Hook	20/1924	2	5.15	Atlantic City	21/1933
3	1.42	Sandy Hook	20/1924	3	5.41	Atlantic City	21/1933
6	1.91	Sandy Hook	20/1924	6	6.04	Atlantic City	13/1919
12	2.21	Sandy Hook	20/1924	12	8.08	Atlantic City	13/1919
24	2.68	Long Branch Trenton	7/1941 4-5/1920	24	8.64	Atlantic City	13-14/1919
MARCH							
1	0.81	Sandy Hook	26/1946	1	3.82	Wanaque Raymond Dam	24/1946
2	1.09	Atlantic City	19/1906	2	4.38	Wanaque Raymond Dam	24/1946
		Rahway	6/1943	3	4.92	Wanaque Raymond Dam	24/1946
3	1.50	Hightstown	13/1944	6	5.79	Wanaque Raymond Dam	24/1946
6	2.22	Hightstown	13/1944	12	6.09	Atlantic City	5-6/1935
12	2.63	Atlantic City	19/1906	24	9.07	Atlantic City	5-6/1935
24	2.63	Atlantic City	19/1906	OCTOBER			
APRIL							
1	1.44	Millville	24/1944	1	1.51	Atlantic City	16/1942
2	1.69	Lumberton	Apr. 30-May 1, 1947	2	2.53	Sandy Hook	26/1943
3	2.44	Millville	24/1944	3	3.30	Marlboro	26/1943
6	2.81	Lumberton	Apr. 30-May 1, 1947	6	4.30	Atlantic City	9/1903
12	2.90	Lumberton	Apr. 30-May 1, 1947	12	5.64	Marlboro	26/1943
24	3.30	Millville	24/1944	24	9.21	Atlantic City	8-9/1903
MAY							
1	1.51	Elizabethport	30/1948	1	1.50	Charlotteburg	8/1947
2	2.31	Sandy Hook	18-19/1945	2	2.06	Charlotteburg	8/1947
3	2.60	Rahway	31/1940	3	2.64	Charlotteburg	8/1947
6	3.30	Orange	31/1940	6	3.33	Charlotteburg	8/1947
12	3.56	Orange	31/1940	12	4.30	Glassboro	25/1950
24	3.57	Orange	31/1940	24	4.88	Atlantic City	16-17/1935
JUNE							
1	2.34	Trenton WB City	30/1939	1	1.20	Lakehurst	30/1948
2	2.78	Trenton WB City	30/1939	2	1.70	Lakehurst	30/1948
3	2.80	Atlantic City	29/1920	3	2.04	Atlantic City	14/1907
6	2.95	Freehold	30/1941	6	2.68	Atlantic City	14/1907
12	3.79	Freehold	30/1941	12	3.45	Atlantic City	14/1907
24	4.79	Trenton WB City	26-27/1938	24	3.56	Long Branch	26/1947

Table 2. - Maximum Amounts for New Jersey

Duration (hours)	Maximum Amount	Location	Date
1	3.98	Atlantic City	Aug. 21, 1933
2	5.15	Atlantic City	Aug. 21, 1933
3	5.41	Atlantic City	Aug. 21, 1933
6	6.04	Atlantic City	Aug. 13, 1919
12	8.08	Atlantic City	Aug. 13, 1919
24	9.21	Atlantic City	Oct. 8-9, 1903

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	0	2	12	7	6	0	0	0
2	0	0	0	0	1	2	12	4	7	0	1	0
3	0	0	0	0	1	2	10	5	9	0	0	0
6	0	0	0	0	0	0	6	9	10	0	2	0
12	0	0	0	0	0	0	4	8	10	2	3	0
24	0	0	0	0	0	0	11	4	7	3	2	0

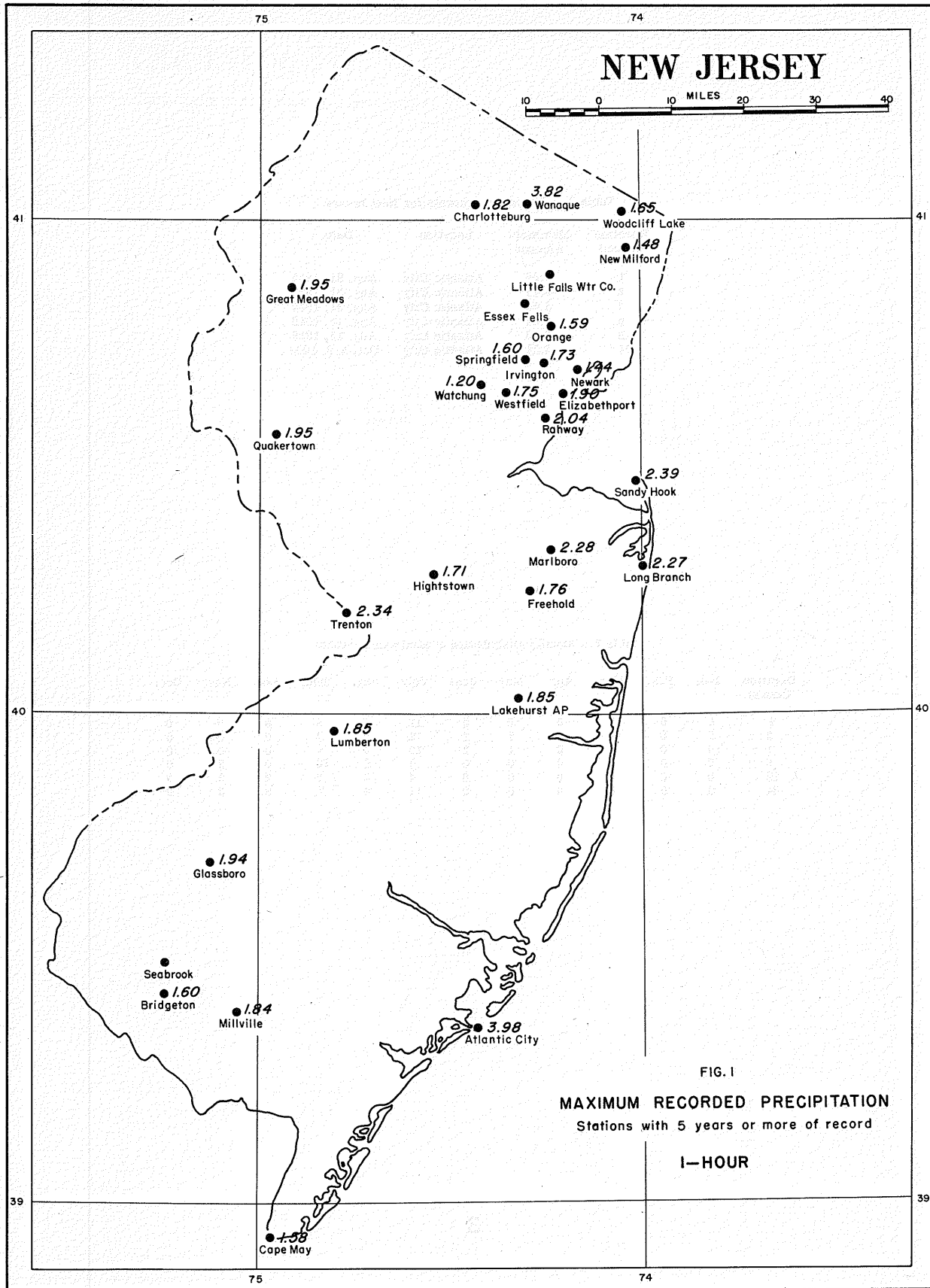


FIG. 1  
**MAXIMUM RECORDED PRECIPITATION**  
 Stations with 5 years or more of record  
**1-HOUR**

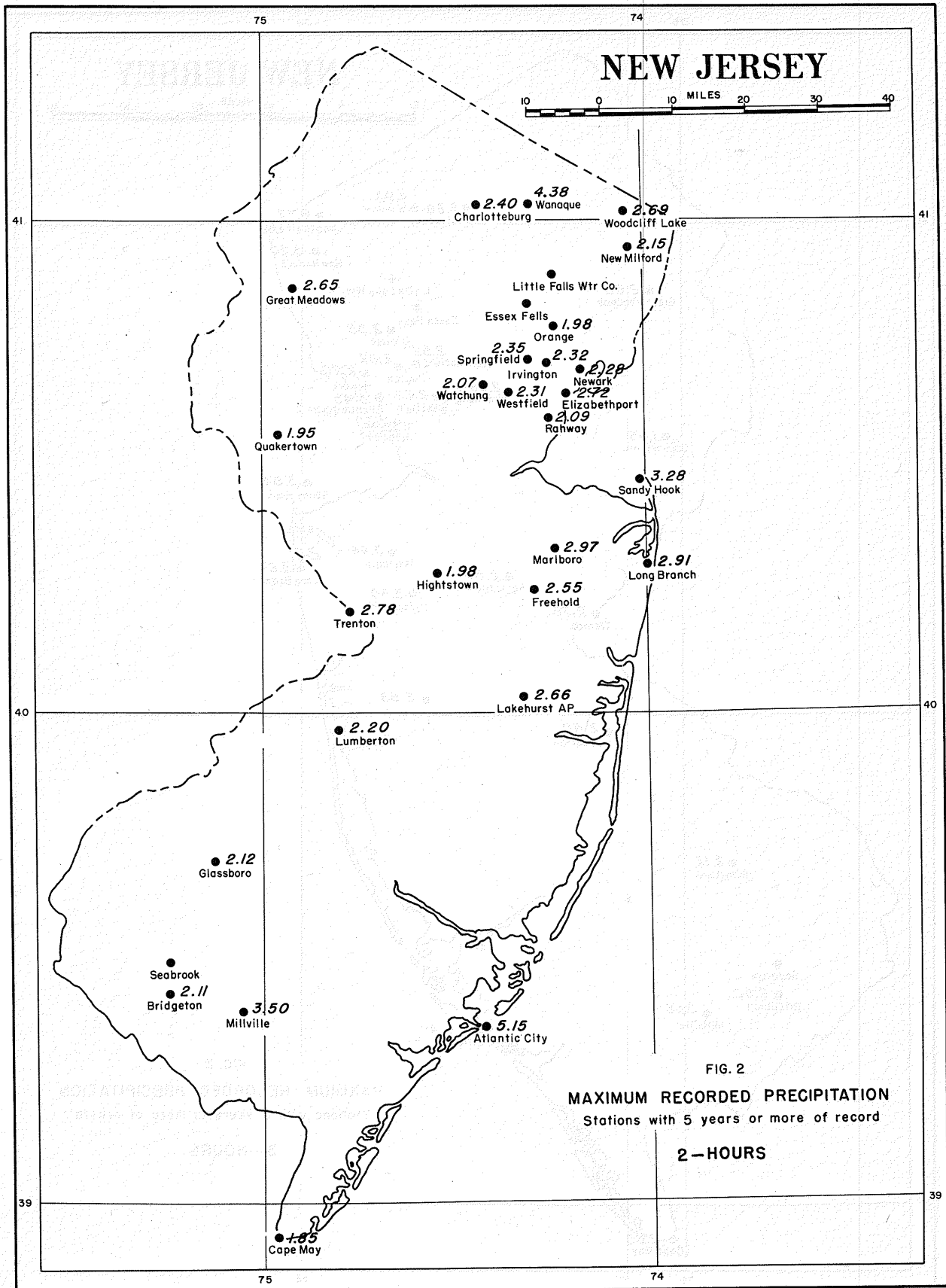


FIG. 2  
**MAXIMUM RECORDED PRECIPITATION**  
 Stations with 5 years or more of record  
**2-HOURS**

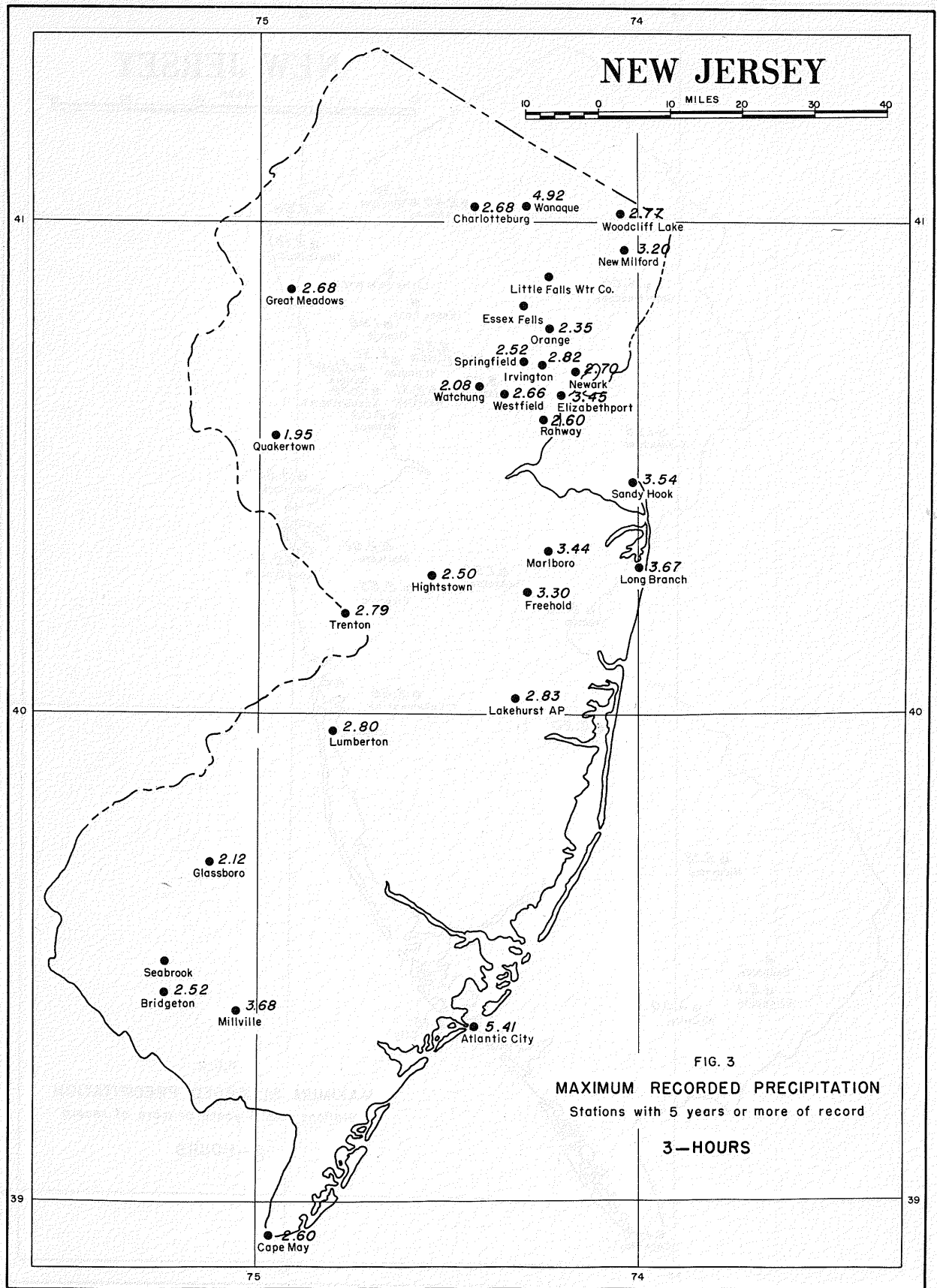


FIG. 3  
**MAXIMUM RECORDED PRECIPITATION**  
 Stations with 5 years or more of record  
**3-HOURS**



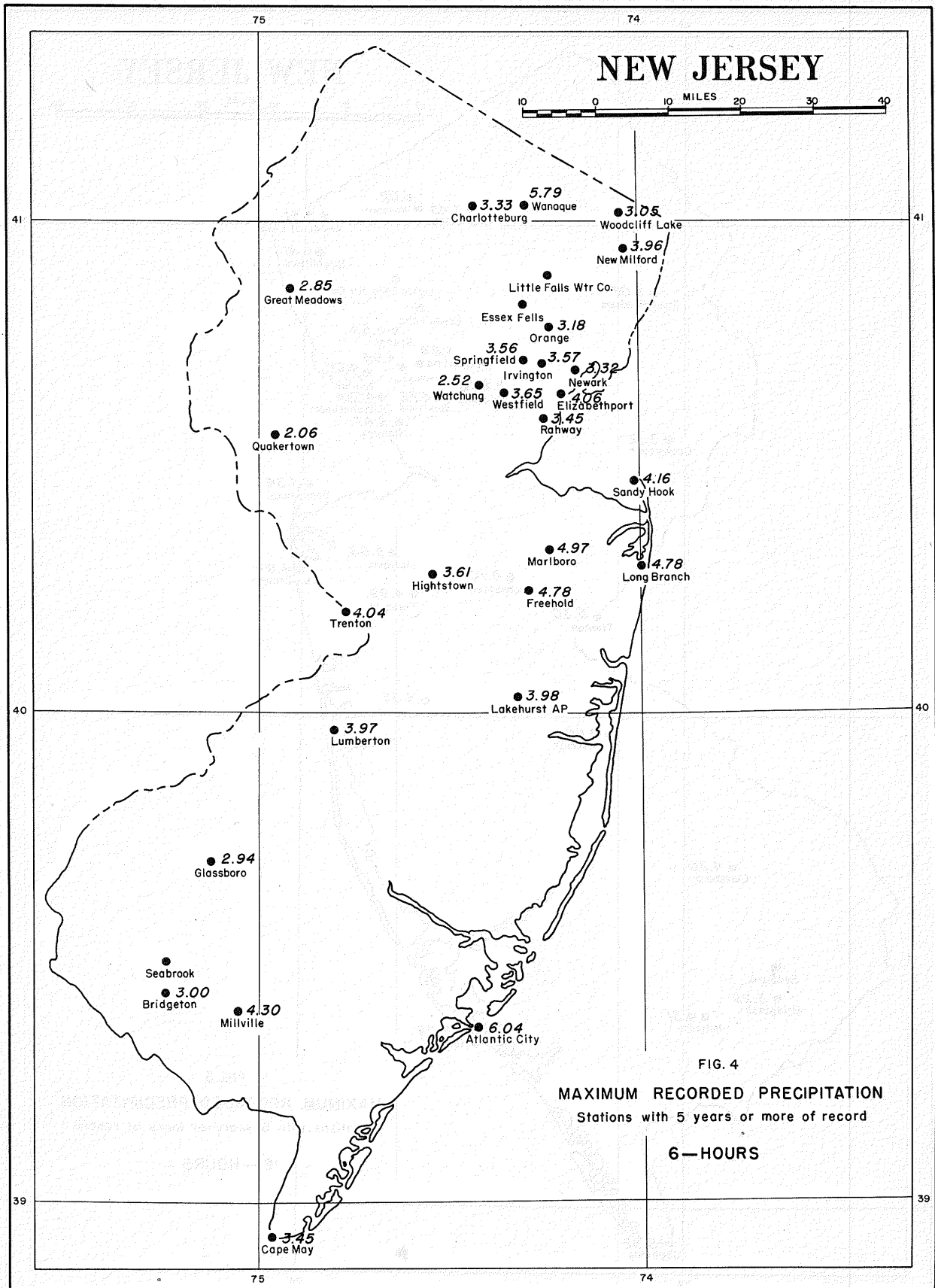


FIG. 4  
**MAXIMUM RECORDED PRECIPITATION**  
 Stations with 5 years or more of record  
**6—HOURS**

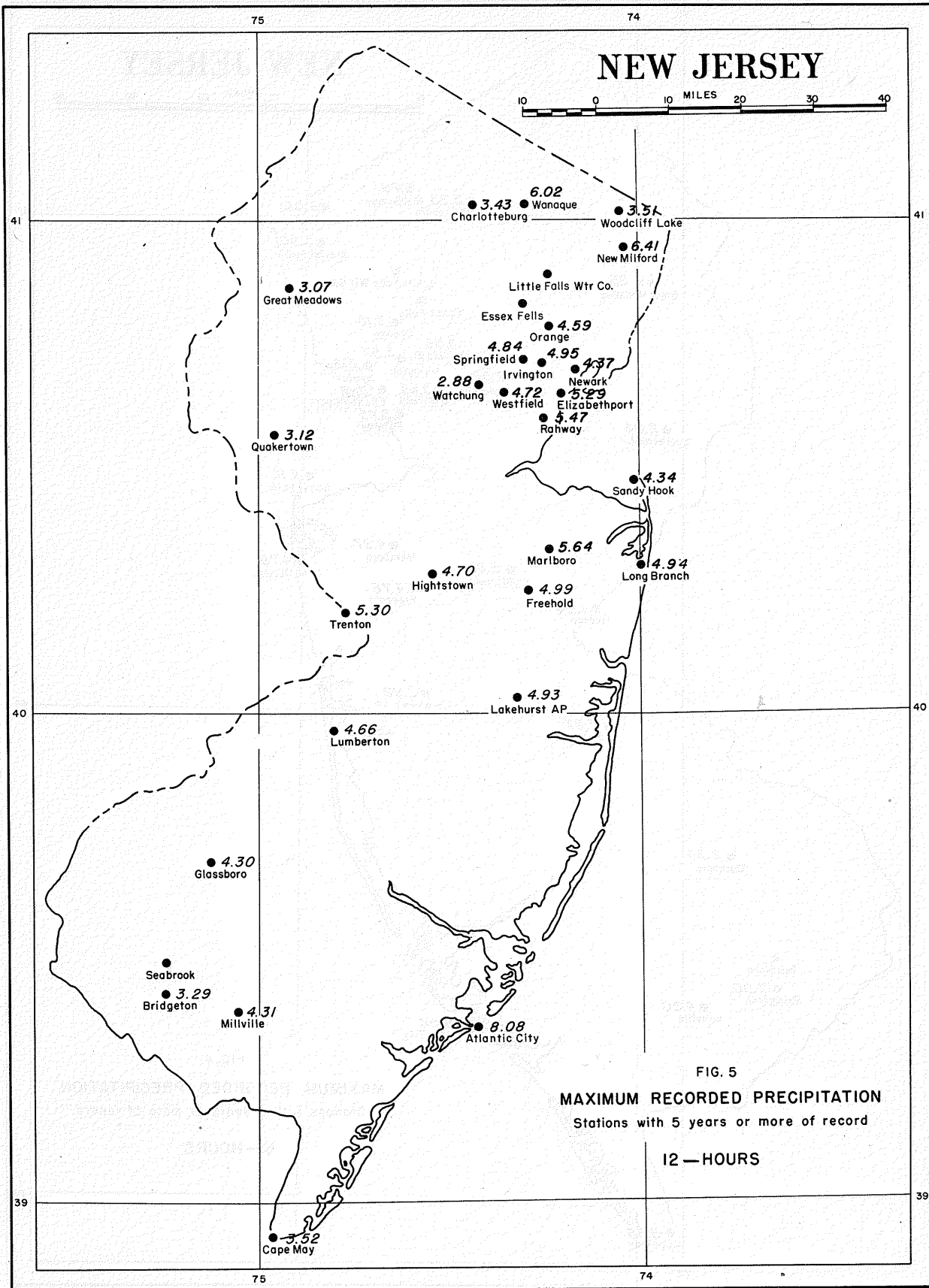


FIG. 5  
**MAXIMUM RECORDED PRECIPITATION**  
 Stations with 5 years or more of record  
 12 — HOURS

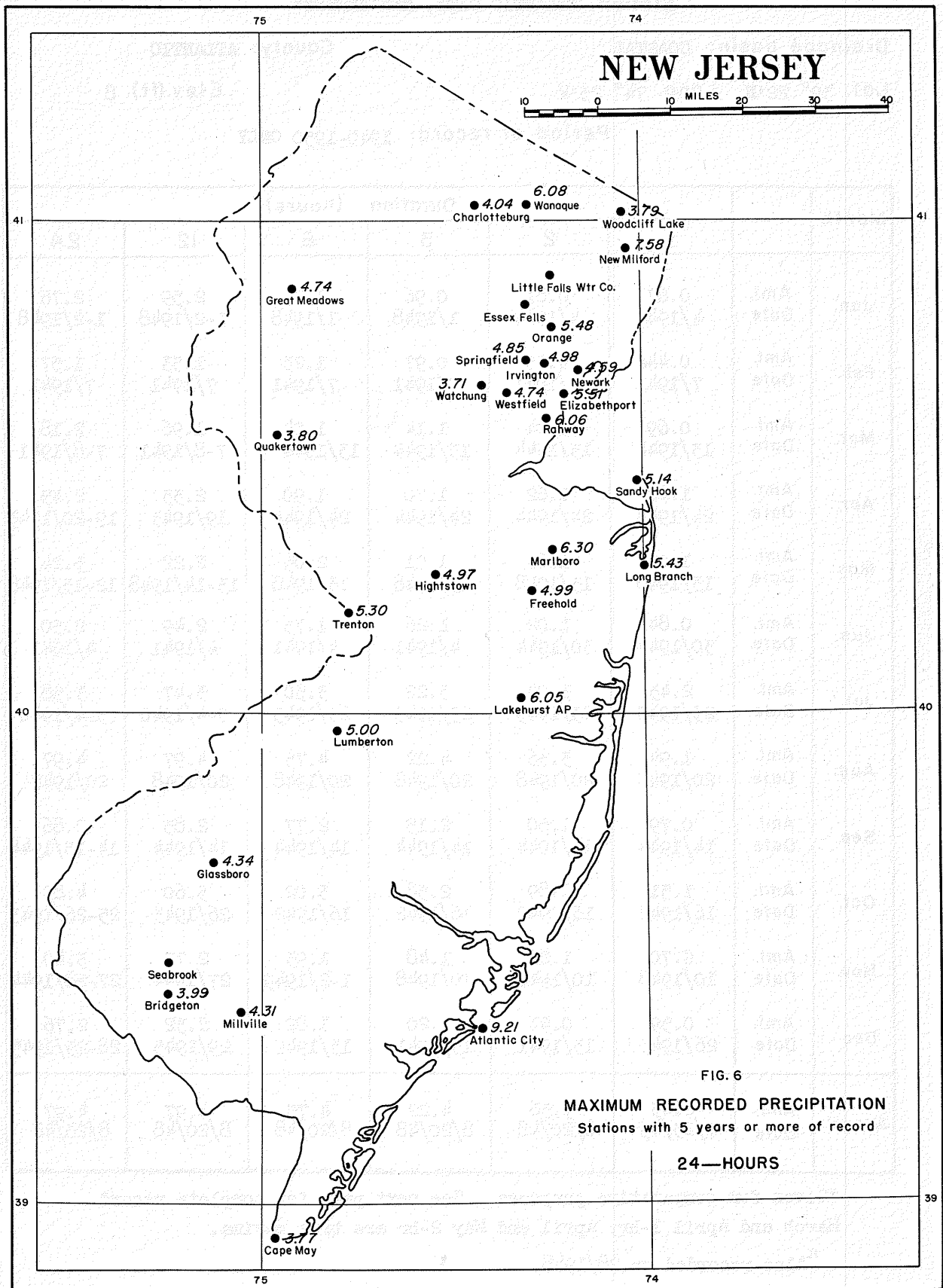


FIG. 6  
**MAXIMUM RECORDED PRECIPITATION**  
 Stations with 5 years or more of record  
 24—HOURS

Station: ATLANTIC CITY, NEW JERSEY\*

Drainage basin: COASTAL

County: ATLANTIC

Lat. 39° 22'N Long. 74° 25'W

Elev.(ft.) 8

Period of record: 1940-1950 ONLY

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.67 4/1944	0.81 4/1944	0.96 1/1948	1.78 1/1948	2.59 1-2/1948	2.76 1-2/1948
Feb.	Amt. Date	0.44 <sup>a</sup> 7/1941	0.75 7/1941	0.97 7/1941	1.23 7/1941	1.53 7/1941	1.57 7/1941
Mar.	Amt. Date	0.69 13/1944	0.84 13/1944	1.14 13/1944	1.54 13/1944	1.96 7-8/1941	2.18 7-8/1941
Apr.	Amt. Date	1.28 24/1944	1.62 24/1944	1.70 24/1944	1.90 24/1944	2.33 19/1943	2.45 19-20/1943
May	Amt. Date	1.02 13/1948	1.67 13/1948	1.91 13/1948	2.05 13/1948	2.22 13-14/1948	3.24 12-13/1948
Jun.	Amt. Date	0.84 30/1944	1.02 30/1944	1.26 4/1941	1.75 4/1941	2.49 4/1941	2.50 4/1941
Jul.	Amt. Date	2.43 23/1945	3.04 23/1945	3.22 23/1945	3.30 23/1945	3.47 3-4/1940	3.58 3-4/1940
Aug.	Amt. Date	1.94 20/1948	3.36 20/1948	4.22 20/1948	4.75 20/1948	4.97 20/1948	4.97 20/1948
Sep.	Amt. Date	0.79 14/1944	1.50 14/1944	2.15 14/1944	2.77 14/1944	2.85 14/1944	2.86 14-15/1944
Oct.	Amt. Date	1.51 16/1942	1.89 16/1942	2.58 16/1942	3.02 16/1942	3.60 26/1943	4.83 25-26/1943
Nov.	Amt. Date	0.70 10/1948	1.21 10/1948	1.48 10/1948	1.93 1-2/1949	2.77 27/1944	3.49 27-28/1944
Dec.	Amt. Date	0.59 26/1943	0.93 13/1941	1.20 13/1941	1.82 13/1941	2.32 29/1945	2.76 28-29/1945
Annual	Amt. Date	2.43 7/23/45	3.36 8/20/48	4.22 8/20/48	4.75 8/20/48	4.97 8/20/48	4.97 8/20/48

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

March and April 1-hr, April and May 2-hr are true maxima.

<sup>a</sup>Also recorded on 28/1948.

Station: ATLANTIC CITY, NEW JERSEY

Drainage basin: COASTAL

County: ATLANTIC

Lat. 39° 22'N Long. 74° 25'W

Elev.(ft.) 8

Period of record: 1897-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.68 3/1903	0.89 3/1903	1.04 <sup>a</sup> 23/1919	1.80 23/1919	2.59 1-2/1948	2.76 1-2/1948
Feb.	Amt. Date	0.56 25/1927	0.82 16/1903	1.12 16/1903	1.49 16/1903	1.85 16-17/1903	1.90 16-17/1903
Mar.	Amt. Date	0.69 13/1944	1.09 19/1906	1.40 19/1906	1.93 19/1906	2.63 19/1906	2.63 19/1906
Apr.	Amt. Date	1.28 24/1944	1.62 24/1944	1.70 24/1944	1.91 27-28/1928	2.46 27-28/1928	2.68 9-10/1932
May	Amt. Date	1.29 31/1906	1.67 13/1948	1.91 13/1948	2.17 10/1919	2.56 10/1919	3.24 12-13/1948
Jun.	Amt. Date	1.82 29/1920	2.75 29/1920	2.80 29/1920	2.81 29/1920	2.92 29-30/1920	4.22 10-11/1935
Jul.	Amt. Date	2.43 23/1945	3.83 22/1903	4.35 22/1903	5.38 22/1903	5.40 22/1903	5.41 22-23/1903
Aug.	Amt. Date	3.98 21/1933	5.15 21/1933	5.41 21/1933	6.04 13/1919	8.08 13/1919	8.64 13-14/1919
Sep.	Amt. Date	1.55 5/1935	2.79 11/1899	3.19 11/1899	4.42 5-6/1935	6.09 5-6/1935	9.07 5-6/1935
Oct.	Amt. Date	1.51 16/1942	1.89 16/1942	2.58 16/1942	4.30 9/1903	5.63 9/1903	9.21 8-9/1903
Nov.	Amt. Date	0.70 10/1948	1.21 10/1948	1.48 10/1948	2.08 17/1935	2.99 17/1935	4.88 16-17/1935
Dec.	Amt. Date	1.07 14/1907	1.65 21/1902	2.04 14/1907	2.68 14/1907	3.45 14/1907	3.52 14/1907
Annual	Amt. Date	3.98 8/21/33	5.15 8/21/33	5.41 8/21/33	6.04 8/13/19	8.08 8/13/19	9.21 10/8-9/03

<sup>a</sup>Also recorded on 7/1938.

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

Station: BRIDGETON, NEW JERSEY

Drainage basin: DELAWARE

County: CUMBERLAND

Lat. 39° 30'N Long. 75° 14'W

Elev.(ft.) 30

Period of record: 1942-1947 (BREAKS)

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.45 21/1947	0.59 21/1947	0.68 5-6/1944	0.90 3/1944	1.25 3/1944	1.62 3-4/1944
Feb.	Amt. Date	0.25 11/1943	0.45 11/1943	0.55 11/1943	0.75 11/1943	0.78 11/1943	0.78 11/1943
Mar.	Amt. Date	0.40 13/1944	0.75 13/1944	0.99 13/1944	1.16 13/1944	1.50 12-13/1944	1.56 12-13/1944
Apr.	Amt. Date	0.35 15/1944	0.55 15/1944	0.77 15/1944	1.00 15/1944	1.78 24/1944	1.98 23-24/1944
May	Amt. Date	0.63 21/1943	0.73 21/1943	1.03 14/1946	1.67 14/1946	1.72 14/1946	1.73 14/1946
Jun.	Amt. Date	0.77 23/1944	1.04 23/1944	1.04 23/1944	1.04 23/1944	1.09 23/1944	1.09 23/1944
Jul.	Amt. Date	1.25 17/1945	1.82 17/1945	2.52 17/1945	2.60 17/1945	2.90 17/1945	3.99 17-18/1945
Aug.	Amt. Date	1.52 17/1942	2.11 18/1946	2.27 18/1946	3.00 18/1946	3.29 18/1946	3.39 18/1946
Sep.	Amt. Date	1.60 18/1942	1.60 18/1942	1.95 14/1944	2.70 14/1944	2.73 14/1944	2.74 13-14/1944
Oct.	Amt. Date	0.50 14/1942	0.75 14/1942	1.00 14/1942	1.35 13-14/1942	1.67 28/1943	1.74 28/1943
Nov.	Amt. Date	0.35 2/1943	0.55 2/1943	0.65 <sup>a</sup> 2-3/1943	1.10 27/1944	2.03 27/1944	2.72 27/1944
Dec.	Amt. Date	0.50 26/1943	0.85 26/1943	1.05 26/1943	1.35 26/1943	1.56 26/1943	1.83 20-21/1946
Annual	Amt. Date	1.60 9/18/42	2.11 8/18/46	2.52 7/17/45	3.00 8/18/46	3.29 8/18/46	3.99 7/17-18/45

<sup>a</sup>Also recorded on 27/1944.

Station: CAPE MAY, NEW JERSEY

Drainage basin: COASTAL

County: CAPE MAY

Lat. 38° 57'N Long. 74° 55'W

Elev.(ft.) 17

Period of record: 1941-1950 (BREAKS)

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.37 5/1944	0.62 31/1942	0.67 <sup>a</sup> 31/1942	1.13 21-22/1949	1.70 21-22/1949	2.37 12-13/1948
Feb.	Amt. Date	0.47 7/1942	0.78 7/1942	1.13 7/1942	1.38 7/1942	1.40 6-7/1942	1.40 6-7/1942
Mar.	Amt. Date	0.58 22/1950	0.95 3/1942	1.14 2-3/1942	1.47 2-3/1942	1.64 12-13/1944	1.71 12-13/1944
Apr.	Amt. Date	0.68 9/1942	0.99 9/1942	1.06 9/1942	1.19 16/1947	1.67 19/1943	1.88 19/1943
May	Amt. Date	0.85 4/1947	1.07 13/1948	1.30 13/1948	1.83 4/1947	2.03 4/1947	2.12 12-13/1948
Jun.	Amt. Date	0.94 26/1947	0.96 26/1947	0.96 26/1947	1.10 16/1948	1.34 16/1948	1.35 16/1948
Jul.	Amt. Date	1.58 31/1942	1.78 31/1942	1.79 31/1942	1.79 31/1942	1.93 2/1946	2.05 2-3/1946
Aug.	Amt. Date	1.19 1/1948	1.70 31/1949	2.60 31/1949	2.70 31/1949	3.03 1/1948	3.39 1-2/1948
Sep.	Amt. Date	1.26 30/1948	1.78 30-1/1948	2.08 14/1944	3.45 14/1944	3.52 14/1944	3.52 14/1944
Oct.	Amt. Date	1.45 31/1949	1.78 30-1/1948	1.94 30-31/1949	2.36 30-31/1949	3.29 30-31/1949	3.77 30-31/1949
Nov.	Amt. Date	1.23 3/1946	1.85 3/1946	2.37 3/1946	2.80 3/1946	3.14 3/1946	3.40 3-4/1946
Dec.	Amt. Date	0.47 <sup>b</sup> 26/1943	0.67 15/1947	0.77 15/1947	1.50 29/1945	2.04 28-29/1945	2.54 28-29/1945
Annual	Amt. Date	1.58 7/31/42	1.85 11/3/46	2.60 8/31/49	3.45 9/14/44	3.52 9/14/44	3.77 11/30-31/49

<sup>a</sup>Also recorded on 5/1944.

<sup>b</sup>Also recorded on 15/1947



Station: CHARLOTTEBURG, NEW JERSEY

Drainage basin: PASSAIC

County: PASSAIC

Lat. 41° 02'N Long. 74° 26'W

Elev.(ft.) 760

Period of record: 1941-1948 (BREAKS)

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.30 31/1942	0.52 31/1942	0.69 31/1942	0.91 31/1942	1.07 31/1942	1.24 16-17/1941
Feb.	Amt. Date	0.28 7/1941	0.56 7/1941	0.80 7/1941	1.16 7/1941	1.60 7/1941	1.62 7/1941
Mar.	Amt. Date	0.43 21/1945	0.58 26/1946	0.70 26/1946	0.92 <sup>a</sup> 3/1942	1.27 <sup>b</sup> 2-3/1942	1.43 7-8/1941
Apr.	Amt. Date	0.35 1/1948	0.50 <sup>c</sup> 1/1948	0.70 14/1948	1.01 1/1948	1.12 1/1948	1.19 14/1948
May	Amt. Date	0.86 25/1947	0.97 29-30/1948	1.19 29-30/1948	1.67 27/1946	2.21 27/1946	2.44 26-27/1946
Jun.	Amt. Date	0.56 11/1946	0.77 20/1944	1.16 20/1944	1.27 20/1944	1.60 2/1946	2.03 1-2/1946
Jul.	Amt. Date	1.82 21/1946	2.40 21/1946	2.68 21/1946	2.84 21/1946	2.84 21/1946	4.04 21-22/1946
Aug.	Amt. Date	1.10 17/1942	1.32 17/1942	1.37 17/1942	1.81 9/1942	2.48 8-9/1942	2.60 8-9/1942
Sep.	Amt. Date	0.54 18/1945	0.97 13/1944	1.03 13/1944	1.41 18/1945	2.48 18/1945	2.68 18/1945
Oct.	Amt. Date	0.46 8/1948	0.55 8/1948	0.63 28/1947	0.79 8/1948	1.01 11-12/1946	1.47 11-12/1946
Nov.	Amt. Date	1.50 8/1947	2.06 8/1947	2.64 8/1947	3.33 8/1947	3.43 8/1947	3.43 8/1947
Dec.	Amt. Date	0.66 14/1941	0.89 13-14/1941	1.08 25/1945	1.70 25/1945	1.92 13-14/1941	2.51 13-14/1941
Annual	Amt. Date	1.82 7/21/46	2.40 7/21/46	2.68 7/21/46	3.33 11/8/47	3.43 11/8/47	4.04 7/21-22/46

<sup>a</sup>Also recorded on 26/1946.

<sup>b</sup>Also recorded on 7-8/1941.

<sup>c</sup>Also recorded on 21/1948.



Station: ELIZABETHPORT, NEW JERSEY

Drainage basin: PASSAIC

County: UNION

Lat. 40° 39'N Long. 74° 12'W

Elev.(ft.) 30

Period of record: 1940-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.39 2/1948	0.67 2/1948	0.79 2/1948	1.35 2/1948	1.76 21-22/1949	2.94 3-4/1944
Feb.	Amt. Date	0.42 7/1941	0.74 7/1941	1.03 7/1941	1.52 7/1941	1.97 7/1941	1.99 7/1941
Mar.	Amt. Date	0.53 6/1943	1.00 6/1943	1.27 6/1943	2.04 13/1944	2.32 12-13/1944	2.35 12-13/1944
Apr.	Amt. Date	0.48 14/1945	0.69 1/1948	0.89 1/1948	1.44 8/1940	1.57 1/1948	1.68 23-24/1944
May	Amt. Date	1.51 30/1948	1.78 30/1948	1.92 30/1948	2.46 30/1948	2.76 30/1948	3.14 30-31/1940
Jun.	Amt. Date	0.72 <sup>a</sup> 7/1942	1.05 7/1942	1.37 7/1942	1.76 2/1946	2.96 2/1946	3.63 1-2/1946
Jul.	Amt. Date	1.83 20/1944	1.85 20/1944	1.98 21/1948	2.08 21/1948	2.41 13/1948	3.39 22-23/1946
Aug.	Amt. Date	1.74 9/1942	1.94 9/1942	2.13 9/1942	2.90 9/1942	3.86 9/1942	3.90 9/1942
Sep.	Amt. Date	1.90 13/1944	2.72 13/1944	3.45 13/1944	4.06 13/1944	5.29 13/1944	5.51 12-13/1944
Oct.	Amt. Date	1.25 26/1943	2.24 26/1943	2.87 26/1943	3.28 26/1943	4.58 26/1943	5.12 26/1943
Nov.	Amt. Date	0.84 8/1947	1.35 8/1947	1.77 8/1947	2.51 8/1947	2.59 8/1947	2.59 8/1947
Dec.	Amt. Date	0.49 13/1941	0.76 13/1941	1.00 13/1941	1.50 13/1941	2.08 13/1941	2.44 30-31/1948
Annual	Amt. Date	1.90 9/13/44	2.72 9/13/44	3.45 9/13/44	4.06 9/13/44	5.29 9/13/44	5.51 9/12-13/44

<sup>a</sup>Also recorded on 24/1944.

Station: ESSEX FELLS SERVICE BLDG., NEW JERSEY

Drainage basin: PASSAIC

County: ESSEX

Lat. 40° 50'N Long. 74° 17'W

Elev.(ft.) 330

Period of record: 1949-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.20 10/1950	0.30 10/1950	0.35 10/1950	0.47 10/1950	0.47 10/1950	0.47 10/1950
Feb.	Amt. Date	0.20 14/1950	0.33 14/1950	0.37 14/1950	0.55 14/1950	0.69 14/1950	1.18 13-14/1950
Mar.	Amt. Date	0.25 23/1950	0.46 23/1950	0.69 23/1950	1.19 23/1950	1.39 22-23/1950	1.42 22-23/1950
Apr.	Amt. Date	0.24 20/1950	0.40 20/1950	0.48 20/1950	0.50 20/1950	0.68 20/1950	0.74 20/1950
May	Amt. Date	0.12 29/1950	0.21 29/1950	0.31 29/1950	0.51 29/1950	0.63 29/1950	0.63 29/1950
Jun.	Amt. Date	0.19 1/1950	0.37 1/1950	0.42 1/1950	0.43 1/1950	0.51 1/1950	0.51 1/1950
Jul.	Amt. Date	0.54 10/1950	0.86 10/1950	1.18 10/1950	1.79 10/1950	1.96 10/1950	1.96 10/1950
Aug.	Amt. Date	0.70 20/1950	1.35 20/1950	1.57 20/1950	1.70 20/1950	1.72 20/1950	2.59 19-20/1950
Sep.	Amt. Date	0.30 13/1949	0.49 13/1949	0.57 13/1949	1.04 30/1949	1.19 30/1949	1.26 12-13/1949
Oct.	Amt. Date	0.25 26/1949	0.34 <sup>a</sup> 26/1949	0.42 26/1949	0.63 26/1949	0.77 9-10/1950	0.79 9-10/1950
Nov.	Amt. Date	1.12 25/1950	1.23 25/1950	1.33 25/1950	1.91 25/1950	3.19 25/1950	3.31 25/1950
Dec.	Amt. Date	0.32 8/1950	0.61 8/1950	0.81 8/1950	1.50 8/1950	2.00 7-8/1950	2.32 7-8/1950
Annual	Amt. Date	1.12 11/25/50	1.35 8/20/50	1.57 8/20/50	1.91 11/25/50	3.19 11/25/50	3.31 11/25/50

<sup>a</sup>Also recorded on 9/1950.

Station: FREEHOLD, NEW JERSEY

Drainage basin: RARITAN

County: MONMOUTH

Lat. 40° 15'N Long. 74° 17'W

Elev.(ft.) 194

Period of record: 1940-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.67 31/1942	0.84 31/1942	0.96 31/1942	1.18 1/1948	1.44 1-2/1948	1.67 1-2/1948
Feb.	Amt. Date	0.38 7/1941	0.72 7/1941	1.01 7/1941	1.31 7/1941	1.66 7/1941	1.75 7/1941
Mar.	Amt. Date	0.52 13/1944	0.78 13/1944	0.99 13/1944	1.71 13/1944	2.20 12-13/1944	2.20 12-13/1944
Apr.	Amt. Date	0.77 1/1948	1.07 1/1948	1.23 1/1948	1.64 <sup>a</sup> 30-1/1947	1.86 1/1948	1.89 1/1948
May	Amt. Date	0.95 25/1948	1.74 25/1948	1.91 25/1948	2.31 25/1948	2.33 25/1948	2.36 25-26/1948
Jun.	Amt. Date	1.43 30/1941	1.63 28/1946	2.14 30/1941	2.95 30/1941	3.79 30/1941	3.82 29-30/1941
Jul.	Amt. Date	1.72 23/1945	2.30 23/1945	2.85 23/1945	3.18 23/1945	3.44 23/1945	3.79 22-23/1946
Aug.	Amt. Date	1.76 20/1950	2.55 20/1950	3.11 20/1950	3.40 20/1950	3.47 20/1950	3.74 19-20/1950
Sep.	Amt. Date	1.25 13/1944	2.28 14/1944	3.30 14/1944	4.78 14/1944	4.99 14/1944	4.99 14/1944
Oct.	Amt. Date	1.24 18/1947	1.37 26/1943	1.90 26/1943	2.38 26/1943	3.51 26/1943	4.02 26/1943
Nov.	Amt. Date	0.86 25/1950	1.05 8/1947	1.25 8/1947	1.97 8/1947	2.72 25/1950	3.65 28-29/1945
Dec.	Amt. Date	0.39 13/1941	0.73 13/1941	1.01 13/1941	1.52 13/1941	2.26 13/1941	2.65 13-14/1941
Annual	Amt. Date	1.76 8/20/50	2.55 8/20/50	3.30 9/14/44	4.78 9/14/44	4.99 9/14/44	4.99 9/14/44

<sup>a</sup>Also recorded on 1/1948.

Station: GLASSBORO, NEW JERSEY

Drainage basin: DELAWARE

County: GLOUCESTER

Lat. 39° 42'N Long. 75° 07'W

Elev.(ft.) 150 EST

Period of record: 1941-1950 (BREAKS)

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.40 1/1948	0.60 1/1948	0.80 1/1948	1.30 1/1948	1.80 1-2/1948	2.10 1-2/1948
Feb.	Amt. Date	0.25 28/1948	0.40 19/1946	0.58 19/1946	0.83 19-20/1946	1.02 19-20/1946	1.02 19-20/1946
Mar.	Amt. Date	0.46 22/1950	0.80 3/1942	0.96 22-23/1950	1.44 22-23/1950	1.72 22-23/1950	1.72 22-23/1950
Apr.	Amt. Date	0.76 30/1947	0.98 30/1947	1.39 30-1/1947	1.61 30-1/1947	1.69 1/1948	1.74 1/1948
May	Amt. Date	1.26 5/1944	1.26 5/1944	1.39 30-1/1947	1.61 30-1/1947	1.95 13/1948	2.00 13/1948
Jun.	Amt. Date	1.48 12/1942	1.66 12/1942	1.73 12/1942	1.74 11-12/1946	2.09 11-12/1946	2.14 11-12/1946
Jul.	Amt. Date	1.94 5/1950	2.12 5/1950	2.12 5/1950	2.94 10/1950	3.00 10/1950	3.00 10/1950
Aug.	Amt. Date	1.15 5/1941	1.30 25/1941	1.30 25/1941	1.30 25/1941	1.90 1/1948	2.80 2-3/1944
Sep.	Amt. Date	1.42 14/1944	1.60 14/1944	1.76 14/1944	2.00 14/1944	2.48 14-15/1944	2.78 14-15/1944
Oct.	Amt. Date	1.05 29/1947	1.46 29/1947	1.52 29/1947	1.58 28-29/1947	1.96 28-29/1947	2.04 26-27/1943
Nov.	Amt. Date	0.60 25/1950	1.10 25/1950	1.70 25/1950	2.74 25/1950	4.30 25/1950	4.34 25/1950
Dec.	Amt. Date	0.44 26/1943	0.62 26/1943	0.78 25/1945	1.09 25/1945	1.30 20-21/1946	2.17 20-21/1946
Annual	Amt. Date	1.94 7/5/50	2.12 7/5/50	2.12 7/5/50	2.94 7/10/50	4.30 11/25/50	4.34 11/25/50

Station: GREAT MEADOWS, NEW JERSEY

Drainage basin: RARITAN

County: WARREN

Lat. 40° 52'N Long. 74° 55'W

Elev.(ft.) 540

Period of record: 1945-1950 (BREAKS)

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.25 20/1947	0.34 10/1950	0.51 10/1950	0.78 10/1950	0.80 10/1950	0.96 19-20/1947
Feb.	Amt. Date	0.18 14/1948	0.33 14/1948	0.42 9/1950	0.70 9/1950	0.96 9/1950	1.00 9/1950
Mar.	Amt. Date	0.69 8/1950	0.87 8/1950	1.01 8/1950	1.29 8/1950	1.34 8/1950	1.48 8-9/1950
Apr.	Amt. Date	0.82 30/1947	1.06 30/1947	1.07 30/1947	1.59 30/1947	1.83 30-1/1947	1.90 30-1/1947
May	Amt. Date	0.60 24/1950	1.00 24/1950	1.07 24/1950	1.25 24/1950	1.83 30-1/1947	2.75 26-27/1946
Jun.	Amt. Date	1.08 24/1948	1.35 24/1948	1.37 24/1948	1.53 19/1947	1.93 2/1946	2.35 14-15/1947
Jul.	Amt. Date	1.95 18/1945	2.65 18/1945	2.68 18/1945	2.85 18/1945	3.03 18/1945	4.74 18-19/1945
Aug.	Amt. Date	0.89 12/1949	1.17 9/1947	1.26 1/1945	1.40 24/1945	2.00 24/1945	2.38 24-25/1945
Sep.	Amt. Date	1.00 14/1945	1.12 14/1945	1.24 14/1945	1.44 14/1945	1.55 14/1945	1.55 14/1945
Oct.	Amt. Date	0.47 19/1947	0.53 12/1946	0.63 <sup>a</sup> 12/1946	0.87 25-26/1949	0.93 25-26/1949	0.93 25-26/1949
Nov.	Amt. Date	0.70 9/1950	0.99 9/1950	1.04 9/1950	1.85 25/1950	3.07 25/1950	3.21 25/1950
Dec.	Amt. Date	0.23 <sup>b</sup> 21/1946	0.41 26/1949	0.56 26/1949	1.02 26-27/1949	1.50 4/1950	1.67 4/1950
Annual	Amt. Date	1.95 7/18/45	2.65 7/18/45	2.68 7/18/45	2.85 7/18/45	3.07 11/25/50	4.74 7/18-19/45

<sup>a</sup>Also recorded on 25-26/1949.

<sup>b</sup>Also recorded on 26/1947 and 26/1949.

Station: HIGHTSTOWN PUMPING STATION, NEW JERSEY

Drainage basin: RARITAN

County: MERCER

Lat. 40° 17'N Long. 74° 32'W

Elev.(ft.) 75

Period of record: 1944-1950 (BREAKS)

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.18 16/1945	0.28 <sup>a</sup> 3/1944	0.41 3/1944	0.73 9/1944	1.20 13/1948	1.82 3-4/1944
Feb.	Amt. Date	0.34 19/1946	0.65 19/1946	0.83 19/1946	1.30 19/1946	1.81 19-20/1946	1.81 19-20/1946
Mar.	Amt. Date	0.57 26/1946	1.02 13/1944	1.50 13/1944	2.22 13/1944	2.44 12-13/1944	2.44 12-13/1944
Apr.	Amt. Date	0.42 18/1949	0.54 24/1944	0.75 24/1944	1.11 24/1944	1.58 24/1944	1.85 23-24/1944
May	Amt. Date	0.59 14/1946	0.93 14/1946	1.14 14/1946	1.63 14/1946	1.67 14-15/1946	1.67 14-15/1946
Jun.	Amt. Date	0.82 12/1948	1.22 12/1948	1.62 12/1948	1.74 12-13/1948	2.89 <sup>b</sup> 10/1944	4.25 1-2/1946
Jul.	Amt. Date	1.28 10/1947	1.98 22/1946	2.36 22/1946	3.34 10/1950	3.79 10/1950	4.97 22-23/1946
Aug.	Amt. Date	1.71 17/1946	1.84 17/1946	2.50 3/1950	3.61 3/1950	3.85 3/1950	3.85 3/1950
Sep.	Amt. Date	1.14 13/1944	1.52 13/1944	2.42 13/1944	3.20 13/1944	4.70 13/1944	4.92 13/1944
Oct.	Amt. Date	0.42 26/1949	0.47 26/1949	0.52 26/1949	0.79 25-26/1949	1.12 20-21/1944	1.25 20-21/1944
Nov.	Amt. Date	0.66 25/1950	0.90 25/1950	1.19 25/1950	1.77 25/1950	2.50 25/1950	2.58 25/1950
Dec.	Amt. Date	0.33 11/1944	0.55 21/1949	0.79 11-12/1944	1.13 21/1949	1.55 21-22/1949	1.67 21-22/1949
Annual	Amt. Date	1.71 8/17/46	1.98 7/22/46	2.50 8/3/50	3.61 8/3/50	4.70 9/13/44	4.97 7/22-23/46

<sup>a</sup>Also recorded on 16/1945.

<sup>b</sup>Also recorded on 2/1946.

Station: IRVINGTON, NEW JERSEY

Drainage basin: COASTAL

County: ESSEX

Lat. 40° 43' N Long. 74° 15' W

Elev.(ft.) 120 EST

Period of record: 1940-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.32 20/1947	0.56 21/1949	0.72 4/1944	1.20 4/1944	1.75 14-15/1940	2.62 3-4/1944
Feb.	Amt. Date	0.41 7/1941	0.69 7/1941	0.94 7/1941	1.40 7/1941	1.78 7/1941	1.78 7/1941
Mar.	Amt. Date	0.65 6/1943	1.00 6/1943	1.32 6/1943	1.90 13/1944	2.12 <sup>a</sup> 6/1943	2.17 6/1943
Apr.	Amt. Date	0.58 6/1949	0.75 1/1948	1.00 24/1944	1.46 1/1948	1.74 24/1944	2.13 23-24/1944
May	Amt. Date	0.96 21/1946	1.44 31/1940	2.09 31/1940	2.99 31/1940	3.22 30-31/1940	3.28 30-31/1940
Jun.	Amt. Date	1.13 24/1948	1.29 24/1948	1.38 24/1948	1.56 2/1946	2.58 2/1946	3.29 1-2/1946
Jul.	Amt. Date	1.17 21/1946	1.63 11/1950	1.88 11/1950	1.93 11/1950	2.07 11/1950	2.20 23/1946
Aug.	Amt. Date	1.61 25/1941	2.17 9/1942	2.68 9/1942	3.57 9/1942	4.95 9/1942	4.98 9/1942
Sep.	Amt. Date	1.73 14/1945	2.32 13/1944	2.82 13/1944	3.03 13/1944	3.88 13/1944	4.10 12-13/1944
Oct.	Amt. Date	1.10 26/1943	1.84 26/1943	2.27 26/1943	2.67 26/1943	3.95 26/1943	4.53 26/1943
Nov.	Amt. Date	0.68 8/1947	1.23 8/1947	1.64 8/1947	2.44 8/1947	2.56 8/1947	2.56 8/1947
Dec.	Amt. Date	0.60 13/1941	0.94 13/1941	1.12 13/1941	1.68 13/1941	2.46 13/1941	2.63 30-31/1948
Annual	Amt. Date	1.73 9/14/45	2.32 9/13/44	2.82 9/13/44	3.57 8/9/42	4.95 8/9/42	4.98 8/9/42

<sup>a</sup>Also recorded on 12-13/1944



Station: LAKEHURST, NEW JERSEY

Drainage basin: COASTAL

County: OCEAN

Lat. 40° 02'N Long. 74° 19'W

Elev.(ft.) 128

Period of record: 1941-1949

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.80 1/1948	0.97 1/1948	1.14 1/1948	1.41 1/1948	1.70 1/1948	1.87 1-2/1948
Feb.	Amt. Date	0.37 7/1941	0.67 7/1941	0.81 7/1941	1.07 7/1941	1.38 7/1941	1.40 7/1941
Mar.	Amt. Date	0.36 13/1944	0.72 13/1944	1.05 13/1944	1.56 13/1944	1.86 12-13/1944	1.93 12-13/1944
Apr.	Amt. Date	0.70 1/1948	0.93 1/1948	1.05 1/1948	1.37 1/1948	1.45 1/1948	1.86 15-16/1944
May	Amt. Date	0.57 22/1947	0.85 22/1947	1.10 22/1947	1.31 22/1947	1.31 22/1947	1.32 12-13/1946
Jun.	Amt. Date	0.87 17/1943	0.98 17/1943	1.09 17/1943	1.47 13/1941	2.01 13/1941	2.06 13/1941
Jul.	Amt. Date	1.34 23/1948	1.73 7/1943	1.96 7/1943	2.42 7/1943	2.95 7/1943	3.16 1-2/1942
Aug.	Amt. Date	1.25 3/1948	1.90 19/1946	2.15 19/1946	3.19 19/1946	3.21 19/1946	3.21 19/1946
Sep.	Amt. Date	1.85 18/1942	2.66 18/1942	2.83 18/1942	3.98 14/1944	4.38 14/1944	4.38 14/1944
Oct.	Amt. Date	1.05 26/1943	1.89 26/1943	2.49 26/1943	3.51 26/1943	4.93 26/1943	6.05 25-26/1943
Nov.	Amt. Date	0.50a 8/1943	0.90 12/1947	1.29 12/1947	1.57 11-12/1947	2.38 28-29/1945	3.38 20-21/1944
Dec.	Amt. Date	1.20 30/1948	1.70 30/1948	1.83 30/1948	2.03 30/1948	2.24 30/1948	3.12 30-31/1948
Annual	Amt. Date	1.85 9/18/42	2.66 9/18/42	2.83 9/18/42	3.98 9/14/44	4.93 10/26/43	6.05 10/25-26/43

<sup>a</sup>Also recorded on 12/1947.



Station: LITTLE FALLS, NEW JERSEY

Drainage basin: PASSAIC

County: PASSAIC

Lat. 40° 53'N Long. 74° 14'W

Elev.(ft.) 157

Period of record: 1948-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.26 5/1949	0.46 21/1949	0.62 21/1949	1.05 21-22/1949	1.38 21-22/1949	1.73 5-6/1949
Feb.	Amt. Date	0.20 22/1949	0.36 22/1949	0.38 <sup>a</sup> 22/1949	0.57 14/1950	0.80 14/1950	1.44 13-14/1950
Mar.	Amt. Date	0.32 23/1950	0.57 23/1950	0.80 23/1950	1.29 23/1950	1.64 22-23/1950	1.70 22-23/1950
Apr.	Amt. Date	0.41 6/1949	0.79 6/1949	1.08 6/1949	1.51 5-6/1949	1.60 5-6/1949	1.70 18-19/1949
May	Amt. Date	0.40 30/1948	0.70 30/1948	0.90 30/1948	1.34 30/1948	1.43 30/1948	2.20 30/1948
Jun.	Amt. Date	1.32 24/1948	1.88 24/1948	2.23 24/1948	2.27 24/1948	2.27 24/1948	2.34 7/1948
Jul.	Amt. Date	1.00 19/1948	1.43 10/1950	1.61 10/1950	2.38 10/1950	2.49 10/1950	2.49 10/1950
Aug.	Amt. Date	0.75 12/1948	0.94 12/1948	1.13 20/1950	1.57 12/1948	2.32 12/1948	2.48 11-12/1948
Sep.	Amt. Date	0.34 10/1950	0.43 <sup>b</sup> 29/1949	0.55 29/1949	1.03 29/1949	1.30 29/1949	1.38 29/1949
Oct.	Amt. Date	0.34 10/1950	0.60 9-10/1950	0.70 9-10/1950	0.84 9-10/1950	0.92 9-10/1950	0.92 9-10/1950
Nov.	Amt. Date	0.46 25/1950	0.66 25/1950	0.74 4/1950	1.23 25/1950	2.29 25/1950	2.58 25/1950
Dec.	Amt. Date	0.37 4/1950	0.57 8/1950	0.86 8/1950	1.49 8/1950	2.03 7-8/1950	2.78 31/1948
Annual	Amt. Date	1.32 6/24/48	1.88 6/24/48	2.23 6/24/48	2.38 7/10/50	2.49 7/10/50	2.78 12/31/48

<sup>a</sup>Also recorded on 14/1950.

<sup>b</sup>Also recorded on 10/1950.

Station: LONG BRANCH, NEW JERSEY

Drainage basin: COASTAL

County: MONMOUTH

Lat. 40° 18'N Long. 74° 00'W

Elev.(ft.) 34

Period of record: 1940-1950

Month	Amt. Date	Duration (hours)					
		1	2	3	6	12	24
Jan.	0.42 24/1941	0.83 24/1941	1.12 24/1941	1.63 24/1941	1.71 24/1941	2.44 3-4/1944	
Feb.	0.48 <sup>a</sup> 7/1941	0.91 7/1941	1.23 7/1941	1.79 7/1941	2.21 7/1941	2.29 7/1941	
Mar.	0.45 <sup>b</sup> 26/1946	0.79 21/1950	1.02 13/1944	1.56 13/1944	1.90 12-13/1944	2.00 12-13/1944	
Apr.	0.86 1/1948	1.26 1/1948	1.39 1/1948	1.83 1/1948	1.98 1/1948	2.02 1-2/1948	
May	0.92 18/1945	1.05 19-20/1943	1.30 19-20/1943	1.41 14/1946	1.70 30/1948	1.87 30-31/1948	
Jun.	1.78 18/1945	1.97 18/1945	2.13 10/1944	2.54 10/1944	3.29 10/1944	3.49 1-2/1946	
Jul.	2.27 1/1942	2.68 11/1942	3.06 11/1942	3.29 11/1942	3.30 10-11/1942	5.43 1-2/1942	
Aug.	1.37 22/1948	1.50 19/1946	2.04 20/1950	3.03 20/1950	3.80 2-3/1944	4.17 2-3/1944	
Sep.	1.65 14/1944	2.91 14/1944	3.67 14/1944	4.78 14/1944	4.94 14/1944	4.94 14/1944	
Oct.	1.05 26/1943	1.48 26/1943	1.76 26-27/1943	2.12 26-27/1943	3.92 26-27/1943	5.10 26-27/1943	
Nov.	0.70 4/1947	1.12 4/1947	1.73 4/1947	2.83 4/1947	3.49 4/1947	3.60 3-4/1947	
Dec.	0.81 13/1941	1.23 13/1941	1.50 13/1941	2.42 13/1942	2.91 13/1942	3.56 26/1947	
Annual	2.27 7/1/42	2.91 9/14/44	3.67 9/14/44	4.78 9/14/44	4.94 9/14/44	5.43 7/1-2/42	

<sup>a</sup>Also recorded on 4/1947.

<sup>b</sup>Also recorded on 21/1950.

Station: LUMBERTON, NEW JERSEY

Drainage basin: DELAWARE

County: BURLINGTON

Lat. 39° 58'N Long. 74° 48'W

Elev.(ft.) 25

Period of record: 1945-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.35 1/1948	0.59 1/1948	0.82 1/1948	1.25 1/1948	1.66 1-2/1948	1.88 1-2/1948
Feb.	Amt. Date	0.25 <sup>a</sup> 19/1946	0.47 19/1949	0.62 19/1946	0.86 19-20/1946	1.15 19-20/1946	1.15 19-20/1946
Mar.	Amt. Date	0.30 15/1946	0.49 15/1946	0.66 22-23/1950	0.89 22-23/1950	1.16 18/1946	1.38 18/1946
Apr.	Amt. Date	0.62 30/1947	1.69 30-1/1947	2.31 30-1/1947	2.81 30-1/1947	2.90 30-1/1947	3.18 30-1/1947
May	Amt. Date	1.38 1/1947	1.69 30-1/1947	2.31 30-1/1947	2.81 30-1/1947	2.90 30-1/1947	3.18 30-1/1947
Jun.	Amt. Date	0.92 30/1948	1.04 11/1946	1.11 11/1946	1.29 30/1948	1.70 11-12/1946	2.00 1-2/1946
Jul.	Amt. Date	1.85 21/1947	2.20 21-22/1947	2.80 10/1950	3.97 10/1950	4.66 10/1950	5.00 10/1950
Aug.	Amt. Date	1.28 7/1947	1.56 7/1947	1.76 7/1947	1.95 7/1947	2.20 7/1947	2.21 7/1947
Sep.	Amt. Date	1.26 24/1946	1.52 24/1946	1.60 24/1946	1.67 24/1946	1.68 24/1946	1.68 24/1946
Oct.	Amt. Date	0.58 29/1947	0.60 29/1947	0.76 23/1950	1.41 23/1950	1.73 22-23/1950	1.73 22-23/1950
Nov.	Amt. Date	1.17 25/1950	1.79 28/1945	2.09 25/1950	2.57 <sup>b</sup> 28-29/1945	4.14 25/1950	4.18 25/1950
Dec.	Amt. Date	0.42 29/1950	0.63 29/1950	0.81 30/1948	1.13 30/1948	1.69 30/1948	2.39 30-31/1948
Annual	Amt. Date	1.85 7/21/47	2.20 7/21-22/47	2.80 7/10/50	3.97 7/10/50	4.66 7/10/50	5.00 7/10/50

<sup>a</sup>Also recorded on 22/1949.

<sup>b</sup>Also recorded on 25/1950.

Station: MARLBORO, NEW JERSEY

Drainage basin: COASTAL

County: MONMOUTH

Lat. 40° 20'N Long. 74° 14'W

Elev.(ft) 120

Period of record: 1940-1950

Month	Amt. Date	Duration (hours)					
		1	2	3	6	12	24
Jan.	0.44 31/1942	0.66 31/1942	0.76 31/1942	1.14 1/1948	1.42 1/1948	2.45 3-4/1944	
Feb.	0.40 19/1946	0.70 7/1941	0.95 7/1941	1.26 7/1941	1.60 7/1941	1.66 7/1941	
Mar.	0.48 13/1944	0.92 13/1944	1.26 13/1944	1.82 13/1944	2.13 12-13/1944	2.20 12-13/1944	
Apr.	0.72 1/1948	1.01 1/1948	1.09 1/1948	1.46 1/1948	1.62 1/1948	1.81 23-24/1944	
May	0.94 16/1946	1.54 25/1948	1.98 25/1948	2.48 25/1948	2.56 25/1948	2.56 25/1948	
Jun.	1.04 10/1944	1.64 10/1944	2.20 10/1944	2.44 10/1944	3.49 10/1944	3.74 1-2/1946	
Jul.	2.10 16/1950	2.97 16/1950	3.38 20/1946	3.45 20/1946	3.45 20/1946	3.65 20-21/1946	
Aug.	2.28 22/1948	2.34 22/1948	2.34 22/1948	2.56 3/1950	2.70 3/1950	3.21 3-4/1949	
Sep.	1.37 14/1944	2.52 14/1944	3.44 14/1944	4.97 14/1944	5.14 14/1944	5.14 14/1944	
Oct.	1.48 26/1943	2.53 26/1943	3.30 26/1943	4.20 26/1943	5.64 26/1943	6.30 26/1943	
Nov.	0.71 23/1950	1.19 23/1950	1.54 23/1950	2.13 4/1947	3.01 28-29/1945	3.85 28-29/1945	
Dec.	0.45 21/1946	0.71 13/1941	0.94 13/1941	1.49 13/1941	2.21 13/1941	2.71 20-21/1946	
Annual	2.28 8/22/48	2.97 7/16/50	3.44 9/14/44	4.97 9/14/44	5.64 10/26/43	6.30 10/26/43	

Station: MILLVILLE, NEW JERSEY

Drainage basin: MAURICE

County: CUMBERLAND

Lat. 39° 24'N Long. 75° 03'W

Elev.(ft.) 60

Period of record: 1941-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.50 24/1941	0.74 24/1941	0.84 24/1941	1.30 1/1948	1.89 1/1948	2.28 3-4/1944
Feb.	Amt. Date	0.50 14/1948	0.72 14/1948	0.75 <sup>a</sup> 7/1942	1.16 7/1942	1.28 7/1942	1.32 6-7/1942
Mar.	Amt. Date	0.62 3/1942	0.94 3/1942	1.06 3/1942	1.62 13/1944	1.99 12-13/1944	2.01 12-13/1944
Apr.	Amt. Date	1.44 24/1944	1.48 24/1944	2.44 24/1944	2.70 24/1944	2.82 24/1944	3.30 24/1944
May	Amt. Date	0.80 13/1948	1.16 1/1947	1.50 1/1947	1.89 1/1947	2.18 27/1946	2.26 27/1946
Jun.	Amt. Date	1.28 26/1947	1.56 13/1941	1.74 18/1944	2.32 13/1941	2.56 13/1941	2.86 13-14/1941
Jul.	Amt. Date	1.20 31/1941	1.30 31/1941	1.35 31/1941	1.69 5-6/1949	2.09 2/1942	3.41 1-2/1942
Aug.	Amt. Date	1.38 3/1945	1.88 20/1948	2.07 20/1948	2.26 20/1948	3.42 2/1944	3.91 2-3/1944
Sep.	Amt. Date	1.84 14/1944	3.50 14/1944	3.68 14/1944	4.30 14/1944	4.31 14/1944	4.31 14/1944
Oct.	Amt. Date	0.70 16/1942	1.40 15-16/1942	1.46 15-16/1942	1.94 15-16/1942	2.25 15-16/1942	2.41 15-16/1942
Nov.	Amt. Date	0.59 10/1942	0.88 25/1950	1.32 25/1950	2.18 25/1950	3.10 25/1950	3.49 25/1950
Dec.	Amt. Date	0.83 26/1943	1.10 26/1943	1.30 26/1943	1.60 26/1943	1.87 26/1943	2.13 30-31/1948
Annual	Amt. Date	1.84 9/14/44	3.50 9/14/44	3.68 9/14/44	4.30 9/14/44	4.31 9/14/44	4.31 9/14/44

<sup>a</sup>Also recorded 7/1949.

Station: NEWARK AIRPORT, NEW JERSEY

Drainage basin: COASTAL

County: ESSEX

Lat. 40° 42'N Long. 74° 10'W

Elev.(ft.) 11

Period of record: 1944-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.35 20/1947	0.57 20/1947	0.77 21/1949	1.11 21/1949	1.66 21-22/1949	1.81 21-22/1949
Feb.	Amt. Date	0.23 20/1947	0.41 20/1947	0.55 20/1947	0.86 20-21/1947	1.21 20-21/1947	1.39 20-21/1947
Mar.	Amt. Date	0.36 26/1946	0.70 26/1946	0.84 26/1946	1.21 23/1950	1.40 22-23/1950	1.43 22-23/1950
Apr.	Amt. Date	0.48 6/1949	0.72 1/1948	0.94 1/1948	1.35 1/1948	1.64 5/1947	1.77 4-5/1947
May	Amt. Date	0.54 27/1946	0.72 27/1946	1.08 27/1946	1.56 27/1946	2.21 27/1946	2.31 27/1946
Jun.	Amt. Date	0.95 24/1948	1.15 24/1948	1.20 24/1948	1.59 2/1946	2.67 2/1946	3.38 1-2/1946
Jul.	Amt. Date	1.35 21/1948	2.28 21/1948	2.70 21/1948	2.78 21/1948	2.78 21/1948	3.42 22-23/1946
Aug.	Amt. Date	1.44 16/1947	1.57 16/1947	1.58 16/1947	1.97 16-17/1947	2.01 16-17/1947	2.65 19-20/1950
Sep.	Amt. Date	1.42 2/1947	1.96 13/1944	2.24 13/1944	3.32 13/1944	4.37 13/1944	4.59 12-13/1944
Oct.	Amt. Date	0.62 6/1945	0.84 6/1945	0.96 6/1945	1.47 20-21/1944	1.87 20-21/1944	2.07 20-21/1944
Nov.	Amt. Date	0.78 8/1947	1.37 8/1947	1.68 8/1947	2.38 8/1947	2.52 25/1950	2.94 20-21/1944
Dec.	Amt. Date	0.29 26/1947	0.57 26/1947	0.76 26/1947	1.19 26/1947	2.03 26/1947	2.57 30-31/1948
Annual	Amt. Date	1.44 8/16/47	2.28 7/21/48	2.70 7/21/48	3.32 9/13/44	4.37 9/13/44	4.59 9/12-13/44



Station: NEW MILFORD, NEW JERSEY

Drainage basin: HACKENSACK

County: BERGEN

Lat. 40° 57'N Long. 74° 02'W

Elev.(ft.) 12

Period of record: 1940-1950 (BREAKS)

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.52 18/1943	0.65 14/1940	0.88 14/1940	1.46 14/1940	2.10 14-15/1940	2.16 14-15/1940
Feb.	Amt. Date	0.40 7/1941	0.70 7/1941	1.01 7/1941	1.65 7/1941	2.19 7/1941	2.22 7/1941
Mar.	Amt. Date	0.50 31/1945	0.74 31/1945	0.93 15/1946	1.28 3/1942	1.74 21-22/1942	1.83 21-22/1942
Apr.	Amt. Date	0.53 8/1940	0.90 8/1940	1.19 8/1940	1.77 8/1940	2.19 5/1947	2.36 4-5/1947
May	Amt. Date	0.79 17/1946	1.13 30/1948	1.47 17/1946	1.84 31/1940	2.25 17/1946	2.25 17/1946
Jun.	Amt. Date	1.06 7/1948	1.34 7/1948	1.41 7/1948	1.41 7/1948	2.24 2/1946	2.71 1-2/1946
Jul.	Amt. Date	1.48 10/1950	2.15 20/1943	3.20 20/1943	3.96 23/1946	6.41 23/1946	7.58 22-23/1946
Aug.	Amt. Date	1.05 16/1942	1.81 16/1942	2.38 25/1941	3.26 9/1942	4.35 9/1942	4.41 9/1942
Sep.	Amt. Date	1.07 14/1944	2.02 14/1944	2.71 14/1944	3.46 14/1944	3.52 14/1944	3.57 14-15/1944
Oct.	Amt. Date	0.58 19/1947	0.92 19/1947	0.93 19/1947	1.54 15/1943	2.41 15/1943	2.87 26-27/1943
Nov.	Amt. Date	0.66 4/1950	0.97 4/1950	1.16 4/1950	1.67 11-12/1947	2.14 11-12/1947	2.28 20-21/1944
Dec.	Amt. Date	0.40 30/1942	0.66 13/1941	0.90 13/1941	1.39 13/1941	2.08 13/1941	2.60 13-14/1941
Annual	Amt. Date	1.48 7/10/50	2.15 7/20/43	3.20 7/20/43	3.96 7/23/46	6.41 7/23/46	7.58 7/22-23/46

Station: ORANGE, NEW JERSEY

Drainage basin: PASSAIC

County: ESSEX

Lat. 40° 47'N Long. 74° 14'W

Elev.(ft.) 140

Period of record: 1940-1950 (BREAKS)

Month		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	0.65 6/1949	0.93 6/1949	1.13 6/1949	1.59 8/1940	1.89 8/1940	2.00 8/1940
May	Amt. Date	1.00 31/1940	1.62 31/1940	2.16 31/1940	3.30 31/1940	3.56 31/1940	3.57 31/1940
Jun.	Amt. Date	1.15 28/1946	1.24 19/1945	1.49 19/1945	1.81 21/1945	2.44 1-2/1946	3.11 1-2/1946
Jul.	Amt. Date	1.59 27/1942	1.98 27/1942	2.35 27/1942	2.72 27/1942	4.32 27/1942	5.48 26-27/1942
Aug.	Amt. Date	1.16 25/1941	1.67 25/1941	2.34 9/1942	3.09 9/1942	4.59 9/1942	4.63 9/1942
Sep.	Amt. Date	1.39 14/1945	1.61 14/1944	2.11a 14/1944	2.93 14/1944	3.20 18/1945	3.63 18/1945
Oct.	Amt. Date	0.97 26/1943	1.59 26/1943	1.98 26/1943	2.51 26/1943	3.66 26/1943	4.45 26/1943
Nov.	Amt. Date	1.09 8/1947	1.73 8/1947	2.15 8/1947	3.18 8/1947	3.32 8/1947	3.32 8/1947
Dec.	Amt. Date		N O	R E C O R D			
Annual	Amt. Date	1.59 7/27/42	1.98 7/27/42	2.35 7/27/42	3.18 8/9/42	4.59 8/9/42	5.48 7/26-27/42

<sup>a</sup>Also recorded on 18/1945.



Station: QUAKERTOWN, NEW JERSEY

Drainage basin: DELAWARE

County: HUNTERDON

Lat. 40° 34'N Long. 74° 57'W

Elev.(ft.) 645

Period of record: 1940-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.42 5/1949	0.70 1/1945	0.80 1/1945	1.22 1/1945	1.57 14/1940	1.75 5-6/1949
Feb.	Amt. Date	0.22 7/1942	0.36 7/1942	0.46 7/1942	0.68 7/1941	1.00 <sup>a</sup> 7/1941	1.14 7/1942
Mar.	Amt. Date	0.48 21/1950	0.81 23/1949	1.00 21-22/1950	1.30 21-22/1950	1.44 21-22/1950	2.14 21-22/1950
Apr.	Amt. Date	0.62 30/1947	0.80 17/1945	1.08 17/1945	1.24 8/1940	1.77 30-1/1947	1.87 23-24/1944
May	Amt. Date	1.02 17/1946	1.34 17/1946	1.34 17/1946	1.74 17/1946	1.85 12/1943	2.78 12-13/1948
Jun.	Amt. Date	1.95 25/1948	1.95 25/1948	1.95 25/1948	1.95 25/1948	3.04 2/1946	3.64 1-2/1946
Jul.	Amt. Date	1.36 20/1943	1.60 20/1943	1.60 20/1943	1.72 2/1946	2.67 18/1945	3.80 18-19/1945
Aug.	Amt. Date	1.10 10/1943	1.12 10/1943	1.22 9/1942	2.06 9/1942	3.12 8-9/1942	3.14 8-9/1942
Sep.	Amt. Date	1.06 5/1949	1.50 5/1949	1.52 5/1949	1.53 5/1949	1.90 25/1940	2.49 25/1940
Oct.	Amt. Date	0.70 28/1947	1.02 28/1947	1.14 28/1947	1.44 28-29/1947	1.66 26/1943	2.21 26/1943
Nov.	Amt. Date	0.54 8/1947	0.78 22/1945	1.00 8/1947	1.86 8/1947	1.88 8/1947	1.92 8-9/1943
Dec.	Amt. Date	0.43 26/1943	0.72 25/1945	0.92 25/1945	1.46 26-27/1949	2.02 13/1941	2.46 30-31/1948
Annual	Amt. Date	1.95 6/25/48	1.95 6/25/48	1.95 6/25/48	2.06 8/9/42	3.12 8/8-9/42	3.80 7/18-19/45

<sup>a</sup>Also recorded on 7/1942.

Station: RAHWAY, NEW JERSEY

Drainage basin: RAHWAY

County: UNION

Lat. 40° 36'N Long. 74° 15'W

Elev.(ft) 20

Period of record: 1940-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.36 31/1942	0.50 20/1947	0.66 28/1943	1.18 28/1943	1.71 28/1943	2.97 3-4/1944
Feb.	Amt. Date	0.35 7/1941	0.66 7/1941	0.92 7/1941	1.37 7/1941	1.80 7/1941	1.84 7/1941
Mar.	Amt. Date	0.59 6/1943	1.09 6/1943	1.38 6/1943	1.96 13/1944	2.23 12-13/1944	2.25 12-13/1944
Apr.	Amt. Date	0.49 1/1948	0.68 1/1948	0.94 8/1940	1.52 8/1940	1.73 8/1940	2.05 5-6/1941
May	Amt. Date	1.17 30/1948	2.09 31/1940	2.60 31/1940	3.10 31/1940	3.30 30-31/1940	3.30 30-31/1940
Jun.	Amt. Date	1.30 10/1944	1.41 10/1944	1.43 10/1944	1.70 2/1946	2.85 2/1946	3.45 1-2/1946
Jul.	Amt. Date	2.04 12/1941	2.09 12/1941	2.38 13/1948	2.96 13/1948	4.15 13/1948	4.30 22-23/1946
Aug.	Amt. Date	1.16 3/1948	1.73 9/1942	2.05 9/1942	2.97 9/1942	4.29 9/1942	4.30 9/1942
Sep.	Amt. Date	1.39 24/1946	1.87 24/1946	2.50 14/1944	3.45 14/1944	5.47 13/1944	6.06 12-13/1944
Oct.	Amt. Date	0.88 26/1943	1.48 26/1943	1.95 26/1943	2.55 26/1943	3.71 26/1943	4.23 25-26/1943
Nov.	Amt. Date	0.69 8/1947	1.33 8/1947	1.60 8/1947	2.51 8/1947	2.67 25/1950	2.90 25/1950
Dec.	Amt. Date	0.56 13/1941	0.80 13/1941	0.93 13/1941	1.32 13/1941	1.99 13/1941	2.32 30-31/1948
Annual	Amt. Date	2.04 7/12/41	2.09 5/31/40*	2.60 5/31/40	3.45 9/14/44	5.47 9/13/44	6.06 9/12-13/44

\*Also recorded on 7/12/41.

Station: SANDY HOOK, NEW JERSEY\*

Drainage basin: COASTAL

County: MONMOUTH

Lat. 40° 28'N Long. 74° 01'W

Elev.(ft.) 22

Period of record: 1940-1950 ONLY

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.36 31/1942	0.51 24/1941	0.70 24/1941	1.17 21/1949	1.73 28/1943	2.64 3-4/1944
Feb.	Amt. Date	0.41 7/1941	0.79 7/1941	1.08 7/1941	1.62 7/1941	2.17 7/1941	2.19 7/1941
Mar.	Amt. Date	0.81 26/1946	1.06 26/1946	1.19 <sup>a</sup> 13/1944	1.74 13/1944	2.01 12-13/1944	2.08 12-13/1944
Apr.	Amt. Date	0.57 <sup>b</sup> 24/1944	0.90 1/1948	0.96 1/1948	1.33 8/1940	1.62 24/1944	2.00 23-24/1944
May	Amt. Date	1.44 18/1945	2.31 18-19/1945	2.50 18-19/1945	2.68 18-19/1945	2.85 18-19/1945	3.14 18-19/1945
Jun.	Amt. Date	1.04 21/1948	1.41 21/1948	1.48 21/1948	1.74 2/1946	2.87 2/1946	3.83 1-2/1946
Jul.	Amt. Date	1.25 13/1948	1.66 13/1949	1.77 13/1949	2.62 13/1948	2.81 13-14/1948	3.34 1-2/1942
Aug.	Amt. Date	1.35 20/1950	2.22 20/1950	2.99 20/1950	3.18 20/1950	3.29 20/1950	3.57 19-20/1950
Sep.	Amt. Date	1.29 27/1945	2.08 14/1944	3.00 14/1944	4.06 14/1944	4.12 14/1944	4.12 14/1944
Oct.	Amt. Date	1.51 26/1943	1.79 26-27/1943	2.03 26-27/1943	2.40 26/1943	4.05 26-27/1943	4.84 26-27/1943
Nov.	Amt. Date	0.78 4/1947	1.33 4/1947	1.57 4/1947	2.33 4/1947	2.82 4/1947	2.97 4-5/1947
Dec.	Amt. Date	0.87 25/1945	1.12 13/1941	1.49 13/1941	2.32 13/1941	2.96 13/1941	3.33 13-14/1941
Annual	Amt. Date	1.51 10/26/43	2.31 5/18-19/45	3.00 9/14/44	4.06 9/14/44	4.12 9/14/44	4.84 9/26-27/43

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

<sup>a</sup>Also recorded on 26/1946. <sup>b</sup>Also recorded on 1/1948.

Station: SANDY HOOK, NEW JERSEY

Drainage basin: COASTAL

County: MONMOUTH

Lat. 40° 28'N Long. 74° 01'W

Elev.(ft.) 22

Period of record: 1915-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.73 11/1924	0.97 1/1923	1.37 1/1923	1.58 1/1923	1.73 28/1943	2.64 3-4/1944
Feb.	Amt. Date	0.68 20/1924	1.09 20/1924	1.42 20/1924	1.91 20/1924	2.21 20/1924	2.66 1-2/1915
Mar.	Amt. Date	0.81 26/1946	1.06 26/1946	1.20 28/1932	1.74 13/1944	2.44 27-28/1932	2.49 27-28/1932
Apr.	Amt. Date	0.81 14/1925	1.25 14/1925	1.39 14-15/1925	1.48 21/1920	1.92 21/1920	2.50 12/1933
May	Amt. Date	1.44 18/1945	2.31 18-19/1945	2.50 18-19/1945	2.68 18-19/1945	2.85 18-19/1945	3.14 18-19/1945
Jun.	Amt. Date	1.13 5/1933	1.41a 5/1933	1.59 30/1915	2.70 5-6/1933	2.87 2/1946	3.83 1-2/1946
Jul.	Amt. Date	1.98 15/1921	3.28 15/1921	3.54 15/1921	4.16 15/1921	4.28 15/1921	4.44 14-15/1921
Aug.	Amt. Date	2.39 10/1928	2.90 10/1928	2.99 20/1950	3.20 10/1928	3.34 10-11/1928	5.14 20-21/1938
Sep.	Amt. Date	1.30 14/1930	2.08 14/1944	3.00 14/1944	4.06 14/1944	4.34 18/1936	4.43 18/1936
Oct.	Amt. Date	1.51 26/1943	1.79 26-27/1943	2.03 26-27/1943	2.40 26/1943	4.05 26-27/1943	4.84 26-27/1943
Nov.	Amt. Date	0.78 4/1947	1.33 4/1947	1.57 4/1947	2.33 4/1947	2.82 4/1947	2.97 4-5/1947
Dec.	Amt. Date	0.87 25/1945	1.12 13/1941	1.49 13/1941	2.32 13/1941	2.96 13/1941	3.33 13-14/1941
Annual	Amt. Date	2.39 8/10/28	3.28 7/15/21	3.54 7/15/21	4.16 7/15/21	4.34 9/18/36	5.14 9/20-21/38

<sup>a</sup>Also recorded on 21/1948.

Station: SEABROOK, NEW JERSEY

Drainage basin: DELAWARE

County: CUMBERLAND

Lat. 39° 30'N Long. 75° 14'W

Elev.(ft.) 100

Period of record: 1949-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.12 31/1950	0.18 31/1950	0.24 31/1950	0.43 31/1950	0.47 30-31/1950	0.68 30-31/1950
Feb.	Amt. Date	0.10 9/1950	0.13 <sup>a</sup> 1/1950	0.16 1/1950	0.24 1/1950	0.43 1/1950	0.64 1/1950
Mar.	Amt. Date	0.32 22/1950	0.62 22-23/1950	0.81 22-23/1950	1.03 22-23/1950	1.14 22-23/1950	1.16 22-23/1950
Apr.	Amt. Date	0.27 28/1950	0.49 28/1950	0.54 28/1950	0.54 28/1950	0.54 28/1950	0.54 28/1950
May	Amt. Date	0.66 15/1950	0.69 15/1950	0.71 15/1950	0.72 15/1950	0.96 15/1950	1.02 14-15/1950
Jun.	Amt. Date	0.67 20/1950	0.96 20/1950	1.03 20/1950	1.06 20/1950	1.06 20/1950	1.25 20/1950
Jul.	Amt. Date	0.62 10/1950	0.77 10/1950	0.78 10/1950	0.91 10/1950	0.98 10/1950	0.98 10/1950
Aug.	Amt. Date	0.53 3/1950	0.58 3/1950	0.58 3/1950	0.67 3/1950	0.67 3/1950	0.67 3/1950
Sep.	Amt. Date	1.24 11/1950	2.40 11/1950	3.20 11/1950	5.76 11/1950	6.22 11/1950	6.66 10-11/1950
Oct.	Amt. Date	0.32 23/1950	0.57 23/1950	0.65 23/1950	0.89 23/1950	1.06 22-23/1950	1.06 22-23/1950
Nov.	Amt. Date	1.68 25/1950	2.85 25/1950	3.33 25/1950	4.92 25/1950	5.85 25/1950	6.57 25/1950
Dec.	Amt. Date	0.49 27/1949	0.55 27/1949	0.58 7-8/1950	0.66 7-8/1950	0.72 7-8/1950	0.94 27-28/1949
Annual	Amt. Date	1.68 11/25/50	2.85 11/25/50	3.33 11/25/50	5.76 9/11/50	6.22 9/11/50	6.66 9/11-12/50

<sup>a</sup>Also recorded on 9/1950.

Station: SPRINGFIELD, NEW JERSEY

Drainage basin: COASTAL

County: UNION

Lat. 40° 45'N Long. 74° 18'W

Elev.(ft) 420 EST

Period of record: 1940-1950

Month	Amt. Date	Duration (hours)					
		1	2	3	6	12	24
Jan.	0.31 <sup>a</sup> 31/1942	0.56 21/1949	0.76 21/1949	1.24 21/1949	1.72 3-4/1944	2.88 3-4/1944	
Feb.	0.45 7/1941	0.75 7/1941	1.01 7/1941	1.46 7/1941	1.88 7/1941	1.92 7/1941	
Mar.	0.57 26/1946	0.83 26/1946	1.00 26/1946	1.75 13/1944	2.07 12-13/1944	2.07 12-13/1944	
Apr.	0.52 1/1948	0.77 1/1948	1.01 1/1948	1.57 1/1948	1.70 1/1948	1.95 23-24/1944	
May	0.67 25/1948	1.02 25/1948	1.33 25/1948	2.22 25/1948	2.80 25/1948	2.80 25/1948	
Jun.	1.42 24/1948	1.70 19/1945	1.77 19/1945	1.85 19-20/1945	2.46 2/1946	3.10 1-2/1946	
Jul.	1.60 <sup>b</sup> 22/1947	2.35 13/1948	2.47 21/1945	3.31 18/1945	3.31 18/1945	4.69 22-23/1946	
Aug.	1.49 16/1942	2.04 9/1942	2.52 9/1942	3.56 9/1942	4.84 9/1942	4.85 8-9/1942	
Sep.	1.19 14/1945	1.80 18/1945	2.27 18/1945	2.55 18/1945	3.35 18/1945	3.65 18/1945	
Oct.	0.69 15/1943	1.32 26/1943	1.70 26/1943	2.12 26/1943	2.99 26/1943	3.50 26/1943	
Nov.	0.86 8/1947	1.53 8/1947	1.90 8/1947	2.70 8/1947	2.88 8/1947	3.21 20-21/1944	
Dec.	0.65 13/1941	1.08 13/1941	1.26 13/1941	1.69 13/1941	2.45 13/1941	2.89 30-31/1948	
Annual	1.60* 7/22/47	2.35 7/13/48	2.52 8/9/42	3.56 8/9/42	4.84 8/9/42	4.85 8/8-9/42	

<sup>a</sup>Also recorded on 20/1947.

<sup>b</sup>Also recorded on 13/1948.

\*Also recorded on 7/13/48.



Station: TRENTON, NEW JERSEY\*

Drainage basin: DELAWARE

County: MERCER

Lat. 40° 13'N Long. 74° 45'W

Elev.(ft.) 56

Period of record: 1940-1950 ONLY

Month	Amt. Date	Duration (hours)					
		1	2	3	6	12	24
Jan.	0.27 31/1942	0.52 5-6/1944	0.77 5-6/1944	1.02 5-6/1944	1.32 1-2/1948	1.78 1-2/1948	
Feb.	0.24 28/1948	0.43 7/1941	0.56 7/1941	0.85 7/1941	1.16 7/1941	1.29 14-15/1940	
Mar.	0.47 26/1946	0.73 13/1944	1.01 13/1944	1.89 13/1944	2.20 12-13/1944	2.20 12-13/1944	
Apr.	0.35 28/1950	0.76 30-1/1947	0.96 30-1/1947	1.56 8/1940	1.90 8/1940	1.93 8/1940	
May	0.81 16/1946	1.11 16/1946	1.16 16/1946	1.37 14/1946	1.69 30-31/1940	1.71 12-13/1948	
Jun.	1.11 11/1946	1.73 10/1944	2.04 17/1941	2.56 17/1941	2.56 17/1941	3.26 1-2/1946	
Jul.	1.68 17/1949	2.24 17/1949	2.28 17/1949	3.21 10/1950	3.57 10/1950	4.30 3-4/1941	
Aug.	1.83 16/1947	2.15 16/1947	2.47 3/1950	3.62 3/1950	3.73 3/1950	3.73 3/1950	
Sep.	1.89 1/1940	2.39 1/1940	2.48 1/1940	2.99 1/1940	3.76 1/1940	3.84 1/1940	
Oct.	0.81 29/1947	1.14 29/1947	1.22 17/1942	1.62 28-29/1947	2.31 28-29/1947	2.34 28-29/1947	
Nov.	1.06 4/1950	1.23 4/1950	1.29 4/1950	1.30 4/1950	2.27 25/1950	2.31 <sup>a</sup> 28-29/1945	
Dec.	0.46 30/1948	0.67 30/1948	0.90 30/1948	1.49 13/1941	2.05 13/1941	2.67 30-31/1948	
Annual	1.89 9/1/40	2.39 9/1/40	2.48 9/1/40	3.62 8/3/50	3.76 9/1/40	4.30 7/3-4/41	

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

<sup>a</sup>Also recorded on 25/1950.

Station: TRENTON WB CITY, NEW JERSEY

Drainage basin: DELAWARE

County: MERCER

Lat. 40° 13'N Long. 74° 45'W

Elev.(ft.) 56

Period of record: 1913-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.76 11/1924	0.96 11/1924	1.00 11/1924	1.22 9/1936	1.45 11/1922	2.22 12-13/1915
Feb.	Amt. Date	0.41 28/1939	0.66 20/1924	0.73 13/1930	1.29 13/1930	1.73 4-5/1920	2.68 4-5/1920
Mar.	Amt. Date	0.64 28/1932	0.93 28/1932	1.14 28/1932	1.89 13/1944	2.30 27-28/1932	2.61 27-28/1932
Apr.	Amt. Date	1.10 21/1927	1.40 21/1927	1.42 21/1927	1.70 3/1915	1.97 6-7/1924	2.31 6-7/1924
May	Amt. Date	0.89 22/1934	1.51 18/1929	1.56 18/1929	1.56 18/1929	1.69 30-31/1940	2.14 21-22/1918
Jun.	Amt. Date	2.34 30/1939	2.78 30/1939	2.79 27/1921	2.79 27/1921	3.19 26-27/1938	4.79 26-27/1938
Jul.	Amt. Date	1.68 17/1949	2.24 17/1949	2.28 17/1949	3.21 10/1950	3.57 10/1950	4.30 3-4/1941
Aug.	Amt. Date	1.92 18/1932	2.32 18/1932	2.58 7/1921	4.04 7/1921	5.30 7-8/1921	5.30 7-8/1921
Sep.	Amt. Date	1.89 1/1940	2.39 1/1940	2.48 1/1940	3.09 17/1934	3.76 1/1940	3.84 1/1940
Oct.	Amt. Date	0.81 29/1941	1.14 29/1947	1.30 1/1913	1.62 28-29/1947	2.31 28-29/1947	2.68 18-19/1927
Nov.	Amt. Date	1.06 4/1950	1.43 1/1932	1.57 1/1932	2.02 1/1932	2.27 25/1950	2.31 <sup>a</sup> 28-29/1945
Dec.	Amt. Date	0.46 30/1948	0.67 30/1948	0.90 30/1948	1.49 13/1941	2.05 13/1941	2.76 4-5/1927
Annual	Amt. Date	2.34 6/30/39	2.78 6/30/39	2.79 6/27/21	4.04 8/7/21	5.30 8/7-8/21	5.30 8/7-8/21

<sup>a</sup>Also recorded on 25/1950.

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



Station: WANAQUE RAYMOND DAM, NEW JERSEY

Drainage basin: PASSAIC

County: PASSAIC

Lat. 41° 02'N Long. 74° 19'W

Elev.(ft) 320

Period of record: 1941-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.30 6/1944	0.43 21/1949	0.54 21/1949	0.80 5/1949	1.38 5-6/1949	1.97 5-6/1949
Feb.	Amt. Date	0.58 1/1949	0.58 1/1949	0.58 1/1949	0.84 7/1942	1.04 7/1942	1.43 13-14/1950
Mar.	Amt. Date	0.40a 3/1942	0.70b 3/1942	0.98 23/1950	1.45 23/1950	1.76 22-23/1950	1.84 2-3/1942
Apr.	Amt. Date	0.61 30/1947	0.80 17/1945	0.90c 17/1945	1.57 5/1947	2.15 5/1947	2.30 4-5/1947
May	Amt. Date	0.67 18/1945	0.70 27/1946	0.86 27/1946	1.50 27/1946	2.49 27/1946	3.10 26-27/1946
Jun.	Amt. Date	0.71 19/1944	0.96 19/1944	1.31 19/1944	1.64 19/1944	1.89 2/1946	2.23 1-2/1946
Jul.	Amt. Date	1.44 23/1945	1.94d 23/1945	2.48 21/1946	2.60 21/1946	4.16 22-23/1945	4.42 22-23/1945
Aug.	Amt. Date	1.08 17/1942	1.21 15/1949	1.51 15/1949	1.53 15/1949	2.09 24/1945	2.51 24-25/1945
Sep.	Amt. Date	3.82 24/1946	4.38 24/1946	4.92 24/1946	5.79 24/1946	6.02 27/1946	6.08 24/1946
Oct.	Amt. Date	0.82 16/1943	0.82e 26/1942	1.12 26/1942	1.61 26/1942	1.73 26/1942	2.42 26/1943
Nov.	Amt. Date	0.90 8/1947	1.47 8/1947	1.68 8/1947	2.29 8/1947	2.83 25/1950	3.16 25/1950
Dec.	Amt. Date	0.62 27/1943	0.85 8/1944	1.24 8/1944	1.40 25/1945	1.87 26/1947	2.96 30-31/1948
Annual	Amt. Date	3.82 9/24/46	4.38 9/24/46	4.92 9/24/46	5.79 9/24/46	6.02 9/24/46	6.08 9/24/46

<sup>a</sup>Also recorded on 6/1943. <sup>b</sup>Also recorded on 6/1943. <sup>c</sup>Also recorded on 5/1947  
<sup>d</sup>Also recorded on 21/1946 <sup>e</sup>Also recorded on 16/1943. and 14/1948.

Station: WATCHUNG, NEW JERSEY

Drainage basin: PASSAIC

County: UNION

Lat. 40° 40'N Long. 74° 25'W

Elev.(ft.) 440 EST

Period of record: 1945-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.25 20/1947	0.44 21/1949	0.61 21/1949	1.04 21/1949	1.57 21-22/1949	1.71 21-22/1949
Feb.	Amt. Date	0.30 20/1946	0.46 22/1949	0.58 22/1949	0.76 22/1949	1.08 22/1949	1.16a 22/1949
Mar.	Amt. Date	0.29b 26/1946	0.57c 26/1946	0.77 23/1949	1.01 22-23/1950	1.14 22-23/1950	1.19 2-3/1947
Apr.	Amt. Date	0.53 1/1948	0.83 1/1948	0.93 1/1948	1.49 1/1948	1.62 1/1948	1.66 1-2/1948
May	Amt. Date	0.70d 12/1946	1.17 14/1946	1.40 14/1946	1.87 14/1946	1.89 14/1946	1.94 11-12/1946
Jun.	Amt. Date	1.06 24/1948	1.15 21/1945	1.19 21/1945	1.62 2/1946	2.64 2/1946	3.28 1-2/1946
Jul.	Amt. Date	0.88 21/1948	1.43 10/1950	1.66 10/1950	2.49 10/1950	2.81 10/1950	3.71 22-23/1946
Aug.	Amt. Date	1.20 20/1948	2.07 20/1948	2.08 20/1948	2.15 20/1948	2.31 20/1948	2.49 20-21/1948
Sep.	Amt. Date	0.91 2/1947	1.26 24/1946	1.55 24/1946	2.26 24/1946	2.88 24/1946	2.89 24-25/1946
Oct.	Amt. Date	0.49 28/1947	0.51 6/1945	0.58 6/1945	0.96 28/1947	1.39 28-29/1947	1.48 6-7/1945
Nov.	Amt. Date	0.75 8/1947	1.35 8/1947	1.68 8/1947	2.52 8/1947	2.80 25/1950	2.85 25/1950
Dec.	Amt. Date	0.57 28/1947	0.59e 28/1947	0.76 30/1948	1.22 25/1945	1.75 30/1948	3.13 30-31/1948
Annual	Amt. Date	1.20 8/20/48	2.07 8/20/48	2.08 8/20/48	2.52 11/8/47	2.88 9/24/46	3.71 7/22-23/46

<sup>a</sup>Also recorded on 13-14/1950. <sup>b</sup>Also recorded on 23/1949.

<sup>c</sup>Also recorded on 23/1949. <sup>d</sup>Also recorded on 14/1946.

<sup>e</sup>Also recorded on 27/1949.

Station: WESTFIELD, NEW JERSEY

Drainage basin: PASSAIC

County: UNION

Lat. 40° 39'N Long. 74° 21'W

Elev.(ft.) 135

Period of record: 1940-1950

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.38 2/1948	0.55 14/1940	0.78 14/1940	1.22a 14/1940	2.02 14-15/1940	2.71 3-4/1944
Feb.	Amt. Date	0.56 7/1941	0.82 7/1941	1.07 7/1941	1.50 7/1941	1.93 7/1941	1.96 7/1941
Mar.	Amt. Date	0.49b 3/1942	0.92 6/1943	1.21 6/1943	1.76 13/1944	2.05 12-13/1944	2.07 12-13/1944
Apr.	Amt. Date	0.48 24/1944	0.73 1/1948	1.00 8/1940	1.52 8/1940	1.84 8/1940	2.04 23-24/1944
May	Amt. Date	0.72 26/1943	1.30 31/1940	1.94 31/1940	2.78 31/1940	3.05 30-31/1940	3.05 30-31/1940
Jun.	Amt. Date	1.08 24/1948	1.32 19/1945	1.37 19/1945	1.56 2/1946	2.59 2/1946	3.27 1-2/1946
Jul.	Amt. Date	1.75 27/1942	2.31 27/1942	2.66 18/1945	3.65 18/1945	3.70 18/1945	4.48 22-23/1946
Aug.	Amt. Date	1.22 9/1942	1.88 9/1942	2.48 9/1942	3.63 9/1942	4.72 9/1942	4.74 9/1942
Sep.	Amt. Date	1.50 7/1943	2.10 7/1943	2.45 7/1943	2.47 7/1943	2.90 13/1944	3.30 17-18/1945
Oct.	Amt. Date	0.64 1/1943	0.72 1/1943	0.85 26/1943	1.29 26/1943	2.14 26/1943	2.59 26/1943
Nov.	Amt. Date	0.94 4/1947	1.77 4/1947	2.32 4/1947	3.26 4/1947	3.60 4/1947	3.67 3-4/1947
Dec.	Amt. Date	0.65 13/1941	1.04 13/1941	1.24 13/1941	1.72 13/1941	2.41 13/1941	2.77 30-31/1948
Annual	Amt. Date	1.75 7/27/42	2.31 7/27/42	2.66 7/18/45	3.65 7/18/45	4.72 8/9/42	4.74 8/9/42

<sup>a</sup>Also recorded on 5-6/1944.

<sup>b</sup>Also recorded on 6/1943.

Station: WOODCLIFF LAKE, NEW JERSEY

Drainage basin: HACKENSACK

County: BERGEN

Lat. 41° 01'N Long. 74° 03'W

Elev.(ft.) 103

Period of record: 1940-1950 (BREAKS)

Month		Duration (hours)					
		1	2	3	6	12	24
Jan.	Amt. Date	0.43 14/1940	0.78 14/1940	1.11 14/1940	1.65 14/1940	2.22 14-15/1940	2.25 14-15/1940
Feb.	Amt. Date	0.38 7/1941	0.72 7/1941	0.99 7/1941	1.64 7/1941	2.19 7/1941	2.21 7/1941
Mar.	Amt. Date	0.48 6/1943	0.80 6/1943	1.01 3/1942	1.64 3/1942	1.97 2-3/1942	2.07 2-3/1942
Apr.	Amt. Date	0.78 13/1949	1.22 8/1940	1.67 8/1940	2.25 8/1940	2.55 8/1940	2.65 8-9/1940
May	Amt. Date	0.67 14/1947	0.88 14/1947	1.02 14/1947	1.77 27/1946	2.79 27/1946	3.31 26-27/1946
Jun.	Amt. Date	1.07 20/1947	1.52 21/1945	1.63 21/1945	1.69 21/1945	1.92 2/1946	2.45 1-2/1946
Jul.	Amt. Date	1.65 12/1941	2.57 12/1941	2.57 12/1941	2.73 22-23/1945	3.51 22-23/1945	3.79 22-23/1946
Aug.	Amt. Date	0.96 26/1941	1.49 16/1941	1.60 16/1941	3.05 13/1946	3.42 9/1942	3.69 9/1942
Sep.	Amt. Date	1.64 1/1944	2.69 1/1944	2.77 1/1944	3.00 14/1944	3.05 14/1944	3.10 14-15/1944
Oct.	Amt. Date	0.36 26/1942	0.57 26/1942	0.89 26/1942	1.18 26/1942	1.27 26/1942	1.30 29-30/1940
Nov.	Amt. Date	0.96 8/1947	1.30 8/1947	1.51 8/1947	2.11 8/1947	2.45 8/1947	2.45 8/1947
Dec.	Amt. Date	0.56 25/1945	0.82 25/1945	1.03 25/1945	1.52 <sup>a</sup> 13/1941	2.18 13/1941	2.64 30-31/1948
Annual	Amt. Date	1.65 7/12/41	2.69 9/1/44	2.77 9/1/44	3.05 8/13/46	3.51 7/22-23/45	3.79 7/22-23/46

<sup>a</sup>Also recorded on 25/1945.