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LOW-FLOW CHARACTERISTICS AND FLOW DURATION OF NEW JERSEY STREAMS

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Low-flow frequency curve.--A graph showing the relation between the magnitude and frequency of the annual lowest mean flow for a given number of consecutive days. Low-flow frequency is expressed as the average interval, in years, between recurrence of an annual minimum flow less than that shown by the magnitude scale. The low-flow frequency relation is commonly presented as a family of curves with a separate curve for each number of consecutive days.

Partial-record site.--A location on a stream, canal, lake or reservoir where limited streamflow data, usually consisting of streamflow measurements, are collected over a period of years for use in hydrologic analysis.

Regulation.--The artificial manipulation of the flow of a stream, such as, by the operation of reservoirs, cranberry bogs, or artificial lakes.

Recurrence interval.--The time interval, in years, within which a given hydrologic event will, on the average, be less or more than a given value one time. It is the reciprocal of the probability that the given hydrologic event will not be exceeded or will be exceeded in any one year. For example, a 20-year low-flow is one that has a 5 percent chance of not being exceeded in any one year.

Water year.--The 12-month period, October 1 through September 30, designated by the calendar year in which it ends.

GLOSSARY

Some hydrologic and statistical terms and concepts defined in the context in which they are used in this report are listed below:

Climatic year.--The 12-month period beginning April 1 of the year indicated. This period is used because it splits the usual high-water period of the year and allows the low-water season to occur entirely in 1 year.

Cubic foot per second (ft^3/s or cu ft/s).--The rate of discharge equivalent to a stream whose channel is 1 square foot in cross-sectional area and whose average velocity is 1 foot per second.

Diversion.--The taking of water from a stream or other body of water upstream from the gaging station into a canal, pipe, or other conduit.

Drainage area.--Computed at specified locations, it is that area, measured in a horizontal plane, which is so enclosed by a topographic divide that direct surface water from precipitation normally would drain by gravity into the stream above the specified point.

Flow, natural.--The flow of a stream as it occurs under natural conditions; that is, not subjected to any regulation or diversions.

Flow, regulated.--The flow of a stream that has been subjected to any artificial or man-made storage, augmentation or diversions.

Flow-duration curve.--A cumulative-frequency curve that shows the percentage of time that specified discharges are exceeded. The flow-duration curve is based on the total period of record, but the chronologic sequence of flows is omitted from consideration in the preparation of the curve. Therefore, it is impossible to tell from the flow-duration curve alone whether varying periods of low flow all occurred during one drought period or were scattered over a number of years. The flow-duration curve is, however, useful for studying the flow characteristics of a stream over its entire range of discharge.

Gaging station.--A site on a stream, canal, lake or reservoir where systematic observations of gage height or discharge are obtained.

FACTORS FOR CONVERTING INCH-POUND UNITS TO METRIC (SI) UNITS

For those readers who may prefer to use metric units rather than inch-pound units, the conversion factors for the terms used in this report are listed below:

| <u>Multiply inch-pound unit</u> | <u>By</u> | <u>To obtain metric units</u> |
|--|-----------|--|
| cubic foot per second (ft ³ /s or cu ft/s) | 0.02832 | cubic meter per second (m ³ /s or cu m/s) |
| cubic foot per second per square mile (ft ³ /s)/mi ² or cu ft/s/sq mi | 0.01093 | cubic meter per second per square kilometer (m ³ /s)/km ² or cu m/s/sq km |
| foot (ft) | 0.3048 | meter (m) |
| mile (mi) | 1.609 | kilometer (km) |
| square mile (mi ² or sq mi) | 2.590 | square kilometer (km ² or sq km) |

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ABSTRACT

Low-flow frequency and flow-duration data for 400 continuous-record and partial-record gaging stations in New Jersey are tabulated in this report. The amount of data analyzed at each site varies from the complete daily discharge record for the continuous-record gaging stations, some of which have been in operation for over 50 years, to limited discharge measurements for partial-record sites.

Daily discharges through 1975 for continuous-record stations with 7 or more years of record were analyzed by digital computer. From these computer summaries, low-flow frequency tables for all gaging stations on unregulated streams with 10 or more years of record were tabulated. Flow-duration tables were also compiled for streams with at least 7 years of streamflow record.

For continuous-record gaging stations with less than 10 years of record, for highly regulated streams, and for partial-record sites, only observed or estimated annual minimum mean discharges for 7 consecutive days with recurrence intervals of 2 and 10 years are given.

INTRODUCTION

As the population increases, more water is needed for homes, industry, sanitation, irrigation, and recreation. Planning for present or future water supply needs requires information on the magnitude and frequency of available streamflow. This information is often supplied by low-flow frequency and flow-duration data.

This report presents low-flow frequency and flow-duration data for streams in New Jersey and is an expansion and update of a report by S.L. Laskowski (1970). It was compiled by the U.S. Geological Survey in cooperation with the New Jersey Department of Environmental Protection, Division of Water Resources.

Low-flow data are useful in determining the location for municipal water supply and sewage disposal systems. These data indicate the occurrence of flows less than those required for municipal water supply without storage, or flows insufficient to

dilute industrial wastes and municipal sewage to acceptable pollution levels. Industries such as chemical plants, textile mills, and refineries require low-flow frequency and flow-duration data to locate sites for present or future expansion, since such sites would require the availability of an adequate water supply. Low-flow data are also helpful in determining whether a water-utilization project is economically feasible, whether it can be operated without shortage, and, if not, the amount of water available for storage.

Low-flow frequency and flow-duration curves were computed where sufficient daily discharge records through 1975 were available. Significant data from these curves are presented in tables that show how frequently, on the average, the flow of a stream will be less than an average minimum flow for a given number of consecutive days. Also shown is the percentage of time that a specified mean daily discharge will be exceeded. For partial-record sites and continuous gaging stations with insufficient daily discharge records, correlation methods were used to estimate low flow.

METHOD OF STUDY

The methods of plotting, computing, and presenting low-flow frequency and flow-duration data used in this report were developed by the U.S. Geological Survey (Riggs, 1972 and Searcy, 1959).

Since 1897, continuous-record stream gaging stations have been operated for various periods of time at approximately 175 sites in New Jersey. Daily, monthly, and annual discharges for most of these stations are published in U.S. Geological Survey Water-Supply Papers and annual Water-Data Reports.

Using daily streamflow records collected at these stations through the 1975 water year, statistical summaries for continuous stations with 7 or more years of record were prepared. A sample statistical summary for Whippany River at Morristown, N.J. is shown in figures 1 and 2. These summaries were used as a data base for computing low-flow frequency curves and flow-duration tables.

STATION NUMBER 01381500

✓ LOWEST MEAN VALUE AND RANKING FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31
 DISCHARGE, IN CUBIC FEET PER SECOND
 MEAN
 WHIPPANY R AT MORRISTOWN NJ

| YEAR | 1 | 3 | 7 | 14 | 30 | 60 | 90 | 120 | 183 |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1923 | 14.00 42 | 14.00 39 | 15.00 40 | 15.00 35 | 17.00 33 | 18.00 28 | 19.00 24 | 24.00 28 | 30.00 31 |
| 1924 | 7.00 8 | 7.00 6 | 7.10 4 | 8.40 4 | 9.40 4 | 11.00 8 | 12.00 4 | 13.00 7 | 18.00 9 |
| 1925 | 11.00 27 | 12.00 30 | 12.00 22 | 13.00 24 | 15.00 26 | 17.00 24 | 21.00 29 | 21.00 23 | 22.00 15 |
| 1926 | 11.00 28 | 11.00 20 | 12.00 23 | 13.00 25 | 17.00 34 | 19.00 29 | 24.00 33 | 27.00 34 | 29.00 28 |
| 1927 | 8.00 11 | 11.00 21 | 12.00 24 | 14.00 31 | 15.00 27 | 19.00 30 | 24.00 34 | 27.00 35 | 31.00 32 |
| 1928 | 18.00 51 | 19.00 52 | 22.00 53 | 24.00 52 | 31.00 53 | 40.00 53 | 43.00 52 | 44.00 52 | 47.00 47 |
| 1929 | 18.00 52 | 18.00 50 | 21.00 52 | 24.00 53 | 28.00 52 | 33.00 50 | 34.00 47 | 37.00 46 | 49.00 49 |
| 1930 | 8.00 12 | 8.00 8 | 9.30 9 | 10.00 12 | 12.00 12 | 13.00 11 | 15.00 13 | 18.00 16 | 22.00 16 |
| 1931 | 6.80 6 | 6.80 5 | 7.00 3 | 7.20 3 | 8.10 2 | 10.00 3 | 12.00 5 | 12.00 3 | 16.00 3 |
| 1932 | 10.00 22 | 11.00 22 | 11.00 15 | 12.00 16 | 13.00 16 | 14.00 15 | 15.00 14 | 16.00 13 | 24.00 19 |
| 1933 | 4.20 1 | 4.60 1 | 4.70 1 | 5.20 1 | 6.30 1 | 7.40 1 | 7.90 1 | 11.00 1 | 18.00 10 |
| 1934 | 11.00 29 | 11.00 23 | 11.00 16 | 13.00 26 | 16.00 30 | 20.00 36 | 26.00 38 | 35.00 44 | 44.00 45 |
| 1935 | 8.90 17 | 9.10 12 | 12.00 25 | 13.00 27 | 18.00 35 | 19.00 31 | 26.00 39 | 32.00 41 | 44.00 46 |
| 1936 | 13.00 39 | 13.00 37 | 14.00 36 | 14.00 32 | 14.00 19 | 20.00 32 | 19.00 25 | 27.00 36 | 27.00 24 |
| 1937 | 8.00 13 | 9.40 14 | 9.90 13 | 10.00 13 | 12.00 13 | 13.00 12 | 14.00 10 | 15.00 12 | 17.00 7 |
| 1938 | 12.00 36 | 12.00 31 | 12.00 26 | 13.00 28 | 15.00 28 | 21.00 37 | 22.00 30 | 24.00 29 | 29.00 29 |
| 1939 | 9.10 18 | 17.00 47 | 20.00 50 | 21.00 48 | 24.00 47 | 33.00 51 | 44.00 53 | 46.00 53 | 52.00 50 |
| 1940 | 5.70 4 | 6.50 3 | 8.00 6 | 8.60 5 | 9.50 5 | 10.00 4 | 13.00 6 | 13.00 4 | 14.00 1 |
| 1941 | 15.00 43 | 15.00 40 | 18.00 46 | 18.00 42 | 21.00 43 | 26.00 42 | 31.00 43 | 31.00 39 | 36.00 38 |
| 1942 | 7.70 9 | 9.00 10 | 9.40 10 | 9.80 9 | 10.00 6 | 11.00 5 | 13.00 7 | 14.00 8 | 17.00 8 |
| 1943 | 11.00 30 | 11.00 24 | 12.00 27 | 17.00 40 | 19.00 39 | 20.00 33 | 24.00 35 | 29.00 37 | 56.00 51 |
| 1944 | 11.00 31 | 11.00 25 | 11.00 17 | 12.00 17 | 16.00 29 | 17.00 25 | 19.00 26 | 23.00 24 | 29.00 30 |
| 1945 | 8.10 14 | 8.20 9 | 9.10 8 | 9.60 8 | 10.00 7 | 13.00 13 | 14.00 11 | 14.00 9 | 19.00 11 |
| 1946 | 17.00 49 | 17.00 48 | 19.00 48 | 22.00 49 | 24.00 48 | 28.00 47 | 34.00 48 | 41.00 51 | 43.00 43 |
| 1947 | 16.00 47 | 16.00 45 | 16.00 41 | 18.00 43 | 19.00 40 | 20.00 34 | 22.00 31 | 24.00 30 | 28.00 27 |
| 1948 | 13.00 37 | 13.00 38 | 13.00 35 | 14.00 33 | 14.00 20 | 16.00 18 | 19.00 27 | 24.00 31 | 34.00 38 |
| 1949 | 15.00 44 | 15.00 41 | 15.00 37 | 16.00 36 | 17.00 31 | 17.00 26 | 19.00 28 | 20.00 21 | 27.00 25 |
| 1950 | 10.00 23 | 11.00 26 | 12.00 28 | 12.00 18 | 14.00 21 | 14.00 16 | 15.00 15 | 15.00 10 | 16.00 4 |
| 1951 | 12.00 32 | 12.00 32 | 12.00 29 | 13.00 29 | 14.00 22 | 16.00 19 | 18.00 19 | 19.00 20 | 26.00 22 |
| 1952 | 17.00 48 | 18.00 49 | 18.00 47 | 19.00 44 | 22.00 44 | 27.00 43 | 34.00 49 | 37.00 47 | 40.00 39 |
| 1953 | 9.60 20 | 12.00 33 | 15.00 38 | 17.00 41 | 17.00 32 | 21.00 38 | 30.00 42 | 32.00 40 | 44.00 44 |
| 1954 | 11.00 24 | 11.00 27 | 12.00 30 | 12.00 19 | 13.00 17 | 13.00 14 | 15.00 16 | 17.00 14 | 21.00 13 |
| 1955 | 9.60 21 | 10.00 17 | 11.00 18 | 12.00 20 | 14.00 18 | 18.00 27 | 19.00 20 | 23.00 25 | 25.00 20 |
| 1956 | 8.80 16 | 9.10 11 | 9.70 12 | 9.90 10 | 11.00 10 | 16.00 20 | 19.00 21 | 25.00 32 | 40.00 40 |
| 1957 | 15.00 45 | 15.00 42 | 16.00 42 | 16.00 37 | 18.00 36 | 24.00 41 | 26.00 40 | 27.00 33 | 31.00 33 |
| 1958 | 9.20 19 | 9.50 16 | 10.00 14 | 11.00 14 | 12.00 14 | 12.00 9 | 13.00 8 | 13.00 5 | 17.00 5 |
| 1959 | 12.00 33 | 13.00 34 | 13.00 31 | 16.00 38 | 18.00 37 | 22.00 39 | 24.00 36 | 24.00 26 | 31.00 34 |
| 1960 | 12.00 34 | 13.00 35 | 13.00 32 | 14.00 30 | 18.00 38 | 20.00 35 | 23.00 32 | 24.00 27 | 27.00 23 |
| 1961 | 16.00 46 | 17.00 46 | 18.00 43 | 22.00 50 | 24.00 45 | 27.00 44 | 33.00 45 | 34.00 42 | 41.00 41 |
| 1962 | 4.70 2 | 9.40 15 | 12.00 19 | 13.00 21 | 15.00 23 | 16.00 21 | 17.00 17 | 18.00 17 | 23.00 17 |
| 1963 | 7.70 10 | 11.00 18 | 12.00 20 | 13.00 22 | 15.00 24 | 16.00 22 | 17.00 18 | 19.00 18 | 22.00 14 |
| 1964 | 8.40 15 | 9.20 13 | 9.50 11 | 10.00 11 | 11.00 11 | 13.00 10 | 14.00 12 | 15.00 11 | 19.00 12 |
| 1965 | 4.70 3 | 4.80 2 | 5.80 2 | 7.20 2 | 8.40 3 | 9.40 2 | 9.60 2 | 11.00 2 | 14.00 2 |
| 1966 | 6.20 5 | 6.70 4 | 7.70 5 | 9.00 6 | 10.00 8 | 11.00 6 | 11.00 3 | 13.00 6 | 17.00 6 |
| 1967 | 6.90 7 | 7.40 7 | 8.20 7 | 9.20 7 | 11.00 9 | 11.00 7 | 13.00 9 | 17.00 15 | 23.00 18 |
| 1968 | 11.00 25 | 11.00 19 | 13.00 33 | 15.00 34 | 20.00 41 | 22.00 40 | 26.00 37 | 29.00 38 | 35.00 36 |
| 1969 | 12.00 35 | 12.00 28 | 13.00 34 | 13.00 23 | 15.00 25 | 17.00 23 | 19.00 22 | 21.00 22 | 28.00 26 |
| 1970 | 19.00 53 | 20.00 53 | 21.00 51 | 22.00 51 | 26.00 50 | 34.00 52 | 36.00 50 | 38.00 48 | 43.00 42 |
| 1971 | 11.00 26 | 12.00 29 | 12.00 21 | 12.00 15 | 13.00 15 | 15.00 17 | 19.00 23 | 19.00 19 | 26.00 21 |
| 1972 | 13.00 38 | 13.00 36 | 15.00 39 | 16.00 39 | 20.00 42 | 27.00 45 | 30.00 41 | 36.00 45 | 63.00 52 |
| 1973 | 14.00 40 | 15.00 43 | 18.00 44 | 20.00 45 | 24.00 46 | 30.00 49 | 32.00 44 | 40.00 49 | 68.00 53 |
| 1974 | 18.00 50 | 19.00 51 | 20.00 49 | 20.00 46 | 28.00 51 | 29.00 48 | 39.00 51 | 40.00 50 | 48.00 48 |
| 1975 | 14.00 41 | 15.00 44 | 18.00 45 | 20.00 47 | 25.00 49 | 28.00 46 | 34.00 46 | 34.00 43 | 36.00 37 |

Figure 1.-- Sample computer printout of low-flow data for Whippany River at
 Morristown, New Jersey

DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

DISCHARGE, IN CUBIC FEET PER SECOND

MEAN

WHIPPANY R. AT MORRISTOWN NJ

| CLASS YEAR | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | |
|---------------|-------------------------|---|---|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| | NUMBER OF DAYS IN CLASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1922 | | | | | 4 | 22 | 26 | 19 | 32 | 27 | 20 | 18 | 26 | 33 | 42 | 24 | 20 | 18 | 6 | 11 | 3 | 4 | 2 | 5 | 2 | 1 | | | | | | | | | | |
| 1923 | | | | 25 | 3 | 17 | 13 | 21 | 72 | 31 | 34 | 23 | 26 | 25 | 25 | 12 | 6 | 7 | 3 | 7 | 4 | 7 | | | | | | | | | | | | | | |
| 1924 | | | | 8 | | 12 | 50 | 19 | 21 | 18 | 16 | 17 | 29 | 30 | 42 | 18 | 17 | 18 | 17 | 11 | 7 | 6 | 2 | 3 | | | | | | | | | | | | |
| 1925 | | | | | 1 | 24 | 10 | 109 | 37 | 27 | 23 | 23 | 16 | 19 | 10 | 17 | 17 | 8 | 10 | 5 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | | | | | | |
| 1926 | | | | | 1 | | 5 | 16 | 12 | 25 | 35 | 37 | 39 | 33 | 37 | 41 | 22 | 15 | 13 | 12 | 6 | 1 | 5 | 1 | 4 | 1 | 2 | 1 | 1 | | | | | | | |
| 1927 | | | | | | | | | 6 | 18 | 20 | 56 | 52 | 48 | 54 | 40 | 18 | 16 | 12 | 8 | 5 | 3 | 4 | 4 | 1 | | | | | | | | | | | |
| 1928 | | | | | | | | | 2 | 1 | 5 | 17 | 37 | 59 | 61 | 57 | 43 | 13 | 30 | 10 | 6 | 4 | 9 | 1 | 5 | 3 | 1 | | | | | | | | | |
| 1929 | | | | | 3 | | 27 | 24 | 5 | 27 | 21 | 25 | 37 | 50 | 30 | 23 | 20 | 12 | 22 | 11 | 10 | 3 | 6 | 4 | | | | | | | | | | | | |
| 1930 | | | | | 5 | 14 | 28 | 30 | 16 | 37 | 35 | 12 | 23 | 42 | 52 | 27 | 18 | 6 | 6 | 5 | 4 | | | 2 | 2 | 1 | | | | | | | | | | |
| 1931 | | | | | 5 | 13 | 9 | 20 | 24 | 28 | 35 | 23 | 26 | 34 | 41 | 29 | 17 | 23 | 9 | 5 | 7 | 6 | 2 | 2 | 4 | 2 | | | | | | | | | | |
| 1932 | | | | 7 | 21 | 12 | 14 | 13 | 28 | 42 | 30 | 20 | 24 | 28 | 31 | 22 | 26 | 15 | 8 | 6 | 10 | 4 | 2 | 1 | 1 | | | | | | | | | | | |
| 1933 | | | | 3 | 1 | 4 | | 3 | 8 | 7 | 23 | 11 | 16 | 14 | 13 | 22 | 47 | 48 | 34 | 19 | 25 | 21 | 17 | 7 | 4 | 4 | 2 | | | | | | | | | |
| 1934 | | | | | | 3 | 2 | 10 | | 9 | 20 | 33 | 49 | 51 | 38 | 34 | 26 | 18 | 24 | 15 | 8 | 7 | 4 | 2 | 3 | 6 | 1 | | | | | | | | | |
| 1935 | | | | | | | | 15 | 22 | 26 | 25 | 18 | 18 | 45 | 47 | 39 | 39 | 29 | 12 | 12 | 6 | 3 | 2 | 2 | 1 | 2 | 2 | | | | | | | | | |
| 1936 | | | | | | 5 | 35 | 45 | 37 | 19 | 20 | 26 | 18 | 20 | 27 | 26 | 15 | 18 | 16 | 18 | 8 | 3 | 11 | 5 | 4 | 1 | 1 | 4 | | | | | | | | |
| 1937 | | | | | 1 | 1 | 36 | 33 | 18 | 25 | 25 | 19 | 21 | 15 | 29 | 36 | 36 | 28 | 14 | 6 | 8 | 4 | 4 | 2 | 1 | 1 | 1 | 1 | | | | | | | | |
| 1938 | | | | | | | | 4 | 9 | 11 | 21 | 26 | 45 | 41 | 62 | 50 | 33 | 18 | 9 | 17 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 1 | 3 | | | | | | | |
| 1939 | | | | 1 | 4 | | 9 | 13 | 26 | 6 | 13 | 15 | 18 | 13 | 25 | 28 | 31 | 24 | 18 | 13 | 16 | 36 | 14 | 7 | 8 | 7 | 3 | 5 | 1 | 1 | | | | | | |
| 1940 | | | | | | 20 | 49 | 31 | 22 | 33 | 28 | 9 | 20 | 18 | 15 | 19 | 21 | 23 | 20 | 12 | 5 | 5 | 3 | 5 | 3 | 3 | 1 | | | | | | | | | |
| 1941 | | | | | | 11 | 26 | 10 | 24 | 29 | 28 | 22 | 23 | 39 | 49 | 30 | 19 | 23 | 16 | 2 | 6 | 2 | 1 | 3 | 1 | | | | | | | | | | | |
| 1942 | | | | | 1 | 13 | 33 | 25 | 22 | 31 | 32 | 33 | 29 | 25 | 17 | 26 | 19 | 14 | 11 | 9 | 4 | 2 | 2 | 2 | 5 | 4 | 1 | 3 | | | | | | | | |
| 1943 | | | | | | 8 | 10 | 20 | 12 | 22 | 12 | 6 | 25 | 45 | 57 | 45 | 32 | 27 | 14 | 9 | 7 | 4 | 5 | 2 | | | | | | | | | | | | |
| 1944 | | | | | 3 | 15 | 16 | 25 | 26 | 29 | 26 | 38 | 32 | 24 | 21 | 16 | 19 | 19 | 21 | 12 | 6 | 5 | 3 | 4 | 1 | | | | | | | | | | | |
| 1945 | | | | | 1 | 6 | 26 | 4 | 4 | 6 | 21 | 43 | 49 | 32 | 30 | 29 | 18 | 20 | 17 | 23 | 7 | 8 | 8 | 8 | 3 | 1 | 1 | | | | | | | | | |
| 1946 | | | | | | | | | 3 | 7 | 27 | 36 | 35 | 51 | 42 | 44 | 29 | 26 | 19 | 14 | 4 | 9 | 9 | 2 | | | | | | | | | | | | |
| 1947 | | | | | | | | | 9 | 43 | 68 | 39 | 26 | 28 | 19 | 24 | 38 | 21 | 20 | 8 | 5 | 5 | 2 | 5 | 2 | 1 | 1 | 1 | | | | | | | | |
| 1948 | | | | | | | | | 13 | 20 | 13 | 24 | 28 | 31 | 44 | 23 | 23 | 28 | 22 | 27 | 24 | 14 | 10 | 7 | 6 | 3 | 2 | 1 | 2 | 1 | | | | | | |
| 1949 | | | | | | | | | 12 | 26 | 30 | 54 | 39 | 25 | 16 | 7 | 12 | 25 | 37 | 28 | 19 | 15 | 3 | 2 | 5 | 5 | 2 | | | | | | | | | |
| 1950 | | | | | | | | | 12 | 34 | 43 | 38 | 38 | 25 | 34 | 37 | 36 | 21 | 19 | 7 | 8 | 7 | 2 | 2 | 1 | | | | | | | | | | | |
| 1951 | | | | | | 1 | 17 | 20 | 17 | 30 | 21 | 21 | 36 | 29 | 27 | 28 | 36 | 22 | 20 | 9 | 5 | 9 | 5 | 5 | 5 | 2 | 2 | 2 | | | | | | | | |
| 1952 | | | | | | | | | 4 | 14 | 32 | 30 | 19 | 12 | 38 | 34 | 49 | 36 | 34 | 20 | 7 | 11 | 5 | 11 | 2 | 1 | 3 | 1 | 2 | | | | | | | |
| 1953 | | | | | 1 | 1 | 27 | 10 | 41 | 38 | 13 | 20 | 19 | 13 | 27 | 18 | 37 | 19 | 24 | 10 | 13 | 11 | 7 | 7 | 2 | 2 | 3 | 1 | 1 | | | | | | | |
| 1954 | | | | | 1 | 15 | 33 | 33 | 53 | 47 | 29 | 29 | 34 | 32 | 26 | 8 | 5 | 3 | 5 | 4 | 3 | | 4 | 1 | | | | | | | | | | | | |
| 1955 | | | | | 7 | 16 | 10 | 9 | 28 | 41 | 33 | 28 | 31 | 40 | 48 | 23 | 14 | 10 | 10 | 5 | | 4 | 2 | 2 | | | | | | | | | | | | |
| 1956 | | | | | | 3 | 25 | 33 | 38 | 43 | 24 | 25 | 38 | 36 | 32 | 20 | 17 | 11 | 8 | 3 | 5 | 3 | 1 | | | | | | | | | | | | | |
| 1957 | | | | | 3 | 27 | 24 | 19 | 29 | 20 | 32 | 23 | 31 | 39 | 39 | 22 | 17 | 11 | 10 | 4 | 5 | 2 | 3 | 2 | 1 | 1 | 1 | | | | | | | | | |
| 1958 | | | | | 2 | 15 | 19 | 18 | 30 | 38 | 23 | 26 | 25 | 23 | 20 | 12 | 20 | 25 | 21 | 13 | 10 | 6 | 9 | 5 | 2 | 1 | | | | | | | | | | |
| 1959 | | | | | | 6 | 19 | 40 | 41 | 53 | 56 | 30 | 39 | 27 | 17 | 12 | 7 | 5 | 1 | 5 | 2 | 1 | 2 | 1 | 1 | 1 | | | | | | | | | | |
| 1960 | | | | | | 4 | 17 | 42 | 32 | 25 | 26 | 43 | 44 | 37 | 34 | 18 | 10 | 9 | 3 | 9 | 3 | 4 | 2 | 1 | 2 | 1 | 2 | 1 | | | | | | | | |
| 1961 | | | | | 1 | 1 | 1 | 1 | 6 | 23 | 22 | 42 | 79 | 45 | 24 | 16 | 12 | 12 | 24 | 12 | 19 | 7 | 8 | 3 | 2 | 4 | | | | | | | | | | |
| 1962 | | | | | 1 | 1 | 1 | 1 | 7 | 30 | 57 | 37 | 63 | 35 | 19 | 17 | 15 | 18 | 20 | 8 | 9 | 4 | 3 | 3 | 1 | 1 | | | | | | | | | | |
| 1963 | | | | | | 11 | 19 | 16 | 25 | 26 | 42 | 63 | 57 | 29 | 15 | 16 | 8 | 9 | 9 | 11 | 5 | 1 | | 2 | 1 | | | | | | | | | | | |
| 1964 | | | | | 2 | 2 | 6 | 10 | 10 | 36 | 13 | 28 | 29 | 27 | 26 | 27 | 11 | 16 | 26 | 22 | 20 | 17 | 12 | 9 | 5 | 7 | 4 | 1 | | | | | | | | |
| 1965 | | | | | | 3 | 21 | 63 | 33 | 28 | 21 | 34 | 29 | 22 | 49 | 29 | 6 | 11 | 5 | 4 | 1 | 3 | | 1 | | | | | | | | | | | | |
| 1966 | | | | | 1 | 9 | 28 | 19 | 25 | 27 | 57 | 36 | 23 | 35 | 25 | 27 | 13 | 18 | 2 | 6 | 4 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | | | | | | | | |
| 1967 | | | | | | 7 | 4 | 15 | 31 | 42 | 40 | 41 | 25 | 48 | 28 | 23 | 21 | 8 | 14 | 8 | 3 | 5 | 1 | | | | | | | | | | | | | |
| 1968 | | | | | | 2 | 9 | 22 | 25 | 31 | 41 | 29 | 44 | 29 | 41 | 24 | 23 | 10 | 13 | 6 | 2 | 6 | 4 | 1 | 1 | 1 | 2 | | | | | | | | | |
| 1969 | | | | | | 5 | 24 | 8 | 23 | 55 | 56 | 52 | 35 | 40 | 22 | 16 | 2 | 6 | 5 | 5 | 4 | 5 | 1 | | | | | | | | | | | | | |
| 1970 | | | | | | 6 | 19 | 29 | 18 | 28 | 24 | 35 | 45 | 38 | 37 | 29 | 17 | 11 | 11 | 2 | 6 | 1 | 2 | 1 | | | | | | | | | | | | |
| 1971 | | | | | 1 | 16 | 15 | 29 | 21 | 28 | 31 | 30 | 29 | 43 | 24 | 22 | 17 | 17 | 14 | 4 | 8 | 2 | 4 | 4 | 3 | | | | | | | | | | | |
| 1972 | | | | | | 1 | 3 | 13 | 15 | 11 | 19 | 28 | 42 | 51 | 48 | 34 | 36 | 14 | 9 | 12 | 9 | 8 | 4 | 4 | 1 | 2 | | | | | | | | | | |
| 1973 | | | | | | 3 | 8 | 21 | 17 | 24 | 33 | 9 | 23 | 42 | 32 | 35 | 28 | 21 | 17 | 23 | 6 | 10 | 7 | 3 | 1 | 1 | | | | | | | | | | |
| 1974 | | | | | | 2 | 22 | 35 | 15 | 30 | 29 | 12 | 38 | 38 | 42 | 23 | 24 | 17 | 8 | 7 | 8 | 7 | 2 | 2 | 2 | 2 | | | | | | | | | | |
| 1975 | | | | | | | 7 | 35 | 8 | 8 | 14 | 18 | 38 | 51 | 53 | 36 | 20 | 21 | 13 | 14 | 6 | 5 | 3 | 5 | 2 | 3 | 3 | 1 | 1 | | | | | | | |

| CLASS | VALUE | TOTAL | ACCUM | PERCT | CLASS | VALUE | TOTAL | ACCUM | PERCT | CLASS | VALUE | TOTAL | ACCUM | PERCT |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | 0.00 | 0 | 19723 | 100.0 | 12 | 27.0 | 1639 | 12371 | 62.7 | 24 | 210 | 158 | 427 | 2.1 |
| 1 | 4.10 | 10 | 19723 | 100.0 | 13 | 32.0 | 1638 | 10732 | 54.4 | 25 | 250 | 79 | 269 | 1.3 |
| 2 | 5.00 | 28 | 19713 | 99.9 | 14 | 38.0 | 1570 | 9094 | 46.1 | 26 | 290 | 72 | 190 | .9 |
| 3 | 5.90 | 33 | 19685 | 99.8 | 15 | 45.0 | 1711 | 7524 | 38.1 | 27 | 350 | 45 | 118 | .5 |
| 4 | 7.00 | 134 | 19652 | 99.6 | 16 | 54.0 | 1370 | 5813 | 29.5 | 28 | 410 | 23 | 73 | .3 |
| 5 | 8.30 | 257 | 19518 | 99.0 | 17 | 64.0 | 1154 | 4443 | 22.5 | 29 | 490 | 18 | 50 | .2 |
| 6 | 9.80 | 648 | 19261 | 97.7 | 18 | 76.0 | 913 | 3289 | 16.7 | 30 | 580 | 13 | 32 | .1 |
| 7 | 12.00 | 832 | 18613 | 94.4 | 19 | 90.0 | 725 | 2376 | 12.0 | 31 | 690 | 11 | 19 | |
| 8 | 14.00 | 913 | 17781 | 90.2 | 20 | 110.0 | 470 | 1651 | 8.4 | 32 | 820 | 3 | 8 | |
| 9 | 16.00 | 1431 | 16868 | 85.5 | 21 | 130.0 | 278 | 1181 | 6.0 | 33 | 970 | 4 | 5 | |
| 10 | 19.00 | 1583 | 15437 | 78.3 | 22 | 150.0 | 280 | 903 | 4.6 | 34 | 1200 | 1 | 1 | |
| 11 | 23.00 | 1463 | 13854 | 70.2 | 23 | 180.0 | 196 | 623 | 3.2 | | | | | |

Low-flow frequency tables show the magnitude and frequency of annual minimum flows for given periods. Flow-duration tables show the percentage of time specified discharges were exceeded during a given period.

Low-flow frequency and flow-duration tables were prepared for natural and slightly regulated gaging sites with 10 or more years of record. For moderately and highly regulated gaging sites, and natural gaging sites with 7-9 years of record, a duration table and the 2- and 10- year 7-day low-flows are given. For gaging sites with significant periods of both regulated and unregulated flow, the statistical summaries were divided into two periods. For gaging sites with less than 7 years of record, and for all partial-record sites, flow-duration tables were not prepared, and only estimates of the 2- and 10-year 7-day low flows are given.

FLOW-DURATION ANALYSIS

The flow-duration curve is useful for analyzing the availability and variability of streamflow. The flow-duration curve, when based on many years of record, indicates the probable future behavior of a stream assuming the basin will not be significantly altered by man's activities. Duration curves are useful for preliminary and general studies but should be supplemented by detailed site data for specific investigations. (See Searcy, 1959.) A sample flow-duration curve is shown in figure 3.

The flow-duration tables are computed from mean daily discharge and are for the entire or some portion of the period of record. The flow-duration table is a magnitude-frequency summary of daily discharge. In these tables, the discharge that was exceeded for the indicated percentage of time is given in cubic feet and cubic meters per second.

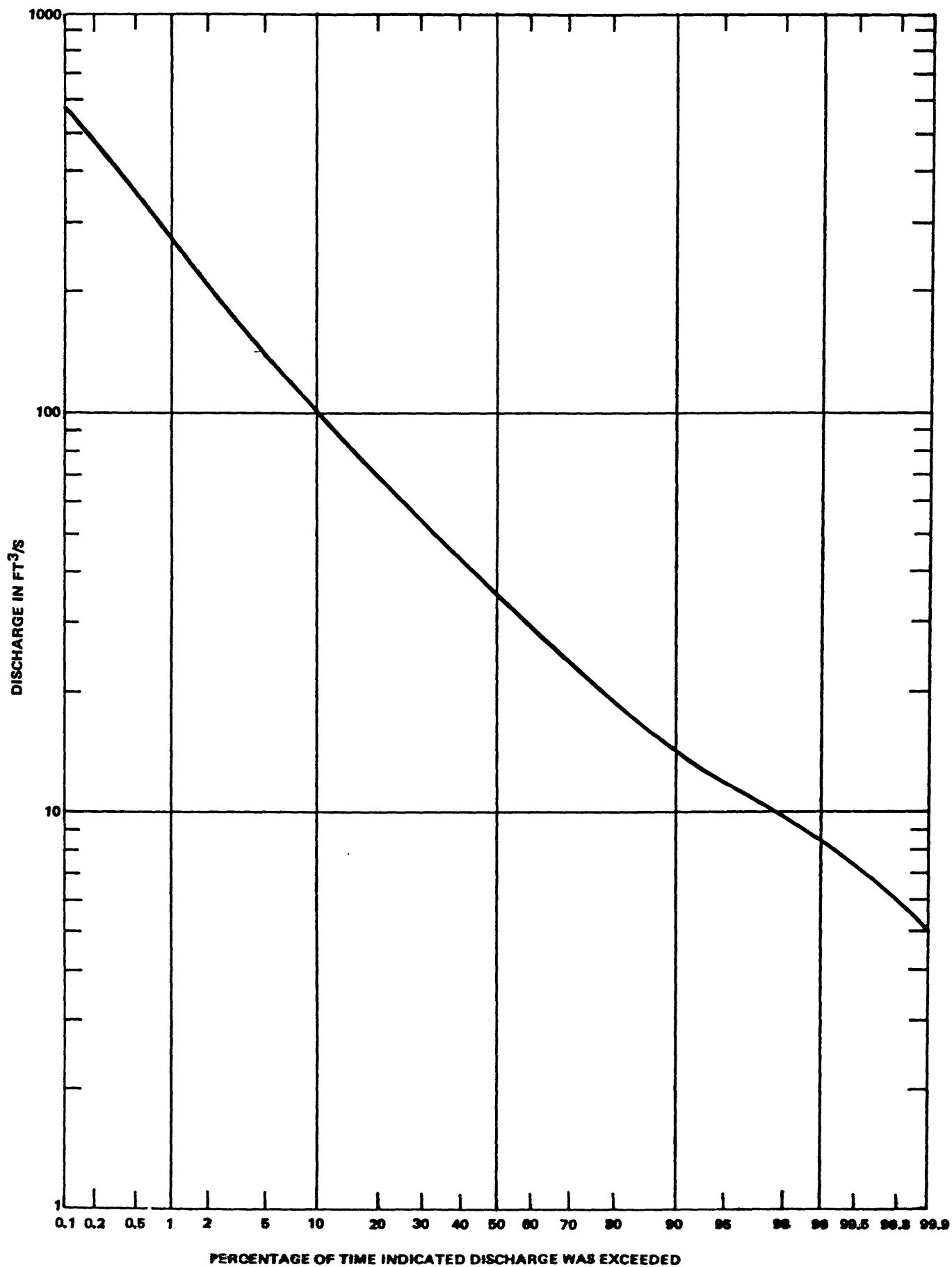


Figure 3.-- Flow-duration curve for Whippany River at Morristown, New Jersey

LOW-FLOW FREQUENCY ANALYSIS

Continuous Gaging Stations

For continuous-record gaging stations with 7 or more years of record, a computer program was used to select the annual minimum flows and to compute the mean, standard deviation, and coefficients of skew from a file of mean daily discharges. The program also fits a log-Pearson Type III probability distribution to the annual minimum and then plots the annual minimum flows versus various probabilities of nonexceedance. The result is a family of curves similar to those in figure 4.

For natural and slightly regulated gaging sites with 10 or more years of record, low-flow frequency data are only given for the lowest mean flow for 3, 7, 30 and 90 consecutive days. A sample computer printout is shown in figure 5. Discharges in cubic feet per second for as many as 11 recurrence intervals are computed by the program. In this report, only the 2-, 5-, 10-, and 20-year intervals are given both in cubic feet and cubic meters per second.

Unless otherwise specified, low-flow data are based on the climatic year beginning April 1.

For moderately and highly regulated gaging sites, and for natural gaging sites with 7-9 years of record, only the 2- and 10-year 7-day low flows are given. The user should exercise caution in using the data for moderately and highly regulated sites, since no assurance can be made that future changes in the pattern of regulation may invalidate some of the data presented in this report. Continuous-record gaging stations with less than 7 years of record are treated as partial-record sites.

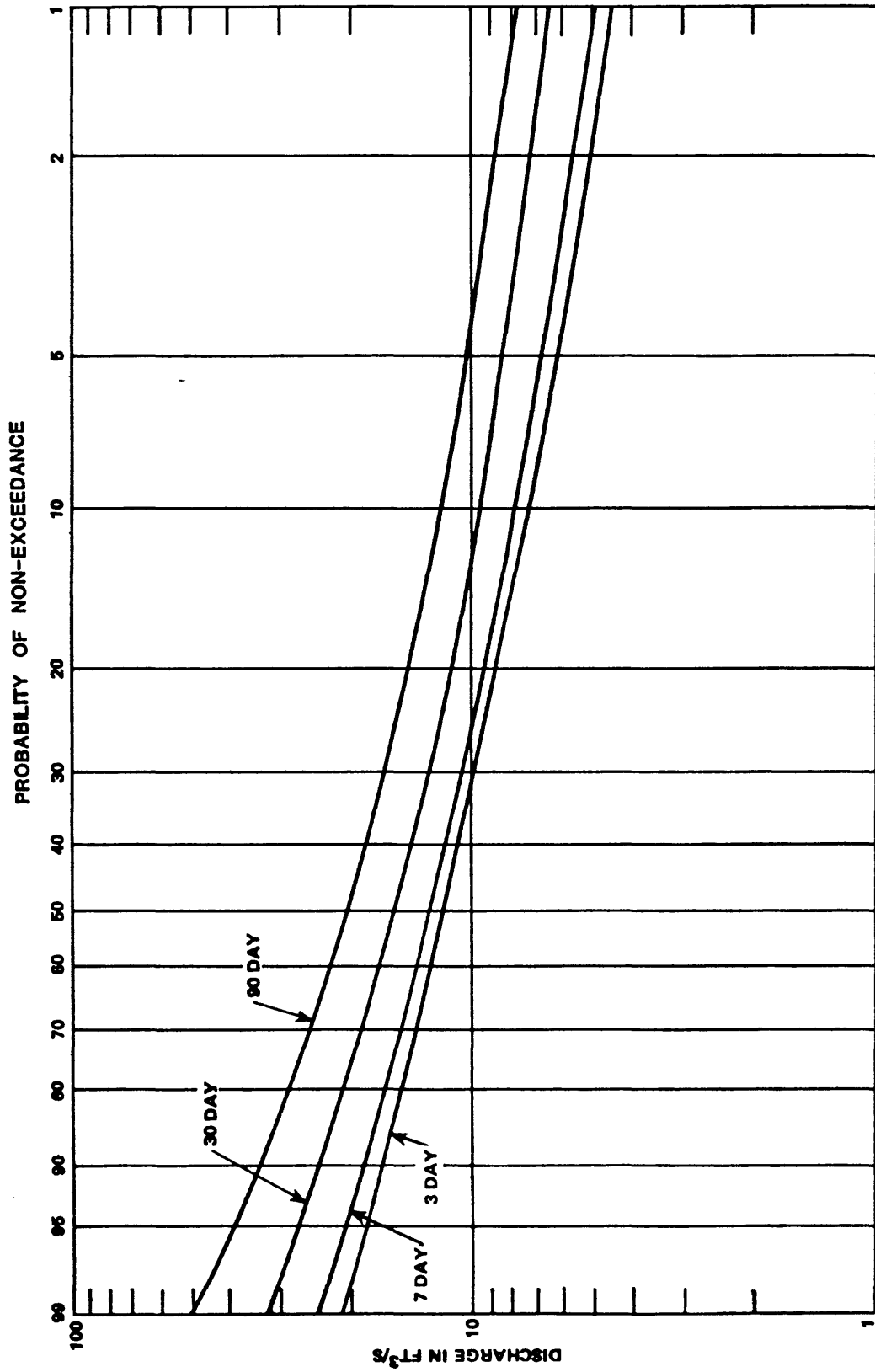


Figure 4.-- Low-flow frequency curves for Whippany River at Morristown, New Jersey

1923-1980, 12 MON PERIOD ENDING MARCH 31

7 DAY LOW VALUE

INPUT DATA (ZERO VALUES OMITTED)

| | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 15.000 | 7.100 | 12.000 | 12.000 | 12.000 | 21.000 | 9.300 | 7.000 | 11.000 |
| 4.700 | 11.000 | 12.000 | 14.000 | 14.000 | 20.000 | 8.000 | 18.000 | 9.400 |
| 12.000 | 11.000 | 9.100 | 19.000 | 19.000 | 13.000 | 12.000 | 12.000 | 18.000 |
| 15.000 | 12.000 | 11.000 | 9.700 | 9.700 | 13.000 | 13.000 | 18.000 | 12.000 |
| 12.000 | 9.500 | 5.800 | 7.700 | 7.700 | 13.000 | 21.000 | 12.000 | 15.000 |
| 18.000 | 20.000 | 18.000 | 32.000 | 32.000 | 15.000 | 28.000 | | |

MEAN = 13.679

VARIANCE = 25.589

STANDARD DEVIATION = 5.058

SKEWNESS = 1.203

STANDARD ERROR OF SKEWNESS = 0.314

SERIAL CORRELATION COEFFICIENT = 0.257

COEFFICIENT OF VARIATION = 0.370

MEAN LOGS = 1.108

VARIANCE LOGS = 0.025

STANDARD DEVIATION LOGS = 0.157

SKEWNESS LOGS = -0.142

STANDARD ERROR OF SKEWNESS LOGS = 0.314

SERIAL CORRELATION COEFFICIENT LOGS = 0.279

COEFFICIENT OF VARIATION LOGS = 0.142

NON EXCEED PROB RECURRANCE INTERVAL PARAMETER VALUE

| | | |
|--------|--------|--------|
| 0.0100 | 100.00 | 5.334 |
| 0.0200 | 50.00 | 5.947 |
| 0.0500 | 20.00 | 6.984 |
| 0.1000 | 10.00 | 8.037 |
| 0.2000 | 5.00 | 9.497 |
| 0.5000 | 2.00 | 12.948 |
| 0.8000 | 1.25 | 17.441 |
| 0.9000 | 1.11 | 20.283 |
| 0.9600 | 1.04 | 23.742 |
| 0.9800 | 1.02 | 26.233 |
| 0.9900 | 1.01 | 28.660 |

Figure 5.-- Sample low-flow summary for Whippany River at Morristown, New Jersey

Partial-Record Sites

Low-flow frequencies for continuous gaging stations with 7 or more years of record were tabulated from the statistical summaries. For short-term continuous gaging stations and partial-record sites, correlation analysis was used to determine low-flow magnitude and frequency.

The 2- and 10-year 7-day low flows for low-flow partial-record sites were estimated by plotting base-flow discharge measurements made during various seasons against concurrent daily discharges at nearby long-term continuous gaging stations. A regression analysis was then performed to establish the mathematical relationship between the two sites. This relationship is expressed as

$$Y = A (X)^B$$

where

Y = discharge at the partial-record site,
X = discharge at the continuous gaging station,
A = Y - intercept of the correlation line, and
B = slope of the correlation line.

The regression line used was the "structural line" referred to by Riggs (1968) which is approximately midway between the two regression lines developed by the least-squares method in the Y-direction and the X-direction. Low-flow frequencies for the partial-record site were computed by substituting into the equation known 2- and 10-year 7-day low-flow frequency values for the continuous gaging station. Each partial-record site was correlated with two or more nearby continuous gaging stations, and the 2- and 10-year 7-day low flows were estimated by combining the results of each correlation analysis.

A minicomputer was used for computation of low-flow relationships and plotting of correlation curves. A sample plot and printout for a typical partial-record site are shown in figures 6 and 7.

To determine the accuracy of the low flows estimated for partial-record sites, the standard error was calculated by the method described by Hardison and Moss (1972) for 15 low-flow partial-record sites. This method considers both (1) the error in correlation of the low-flow partial-record station with the index gaging station, and (2) the standard error of the low-flow frequency of the index gaging station. The standard error of the 36 index stations used in this study for the 7-day 10-year low flows using Hardison's method (1969) ranged from 6 to 35 percent with a mean of 12 percent. The standard error of the 7-day 10-year low flow for the 15 low-flow partial-record sites ranged from 23 to 154 percent with a mean of 56 percent.

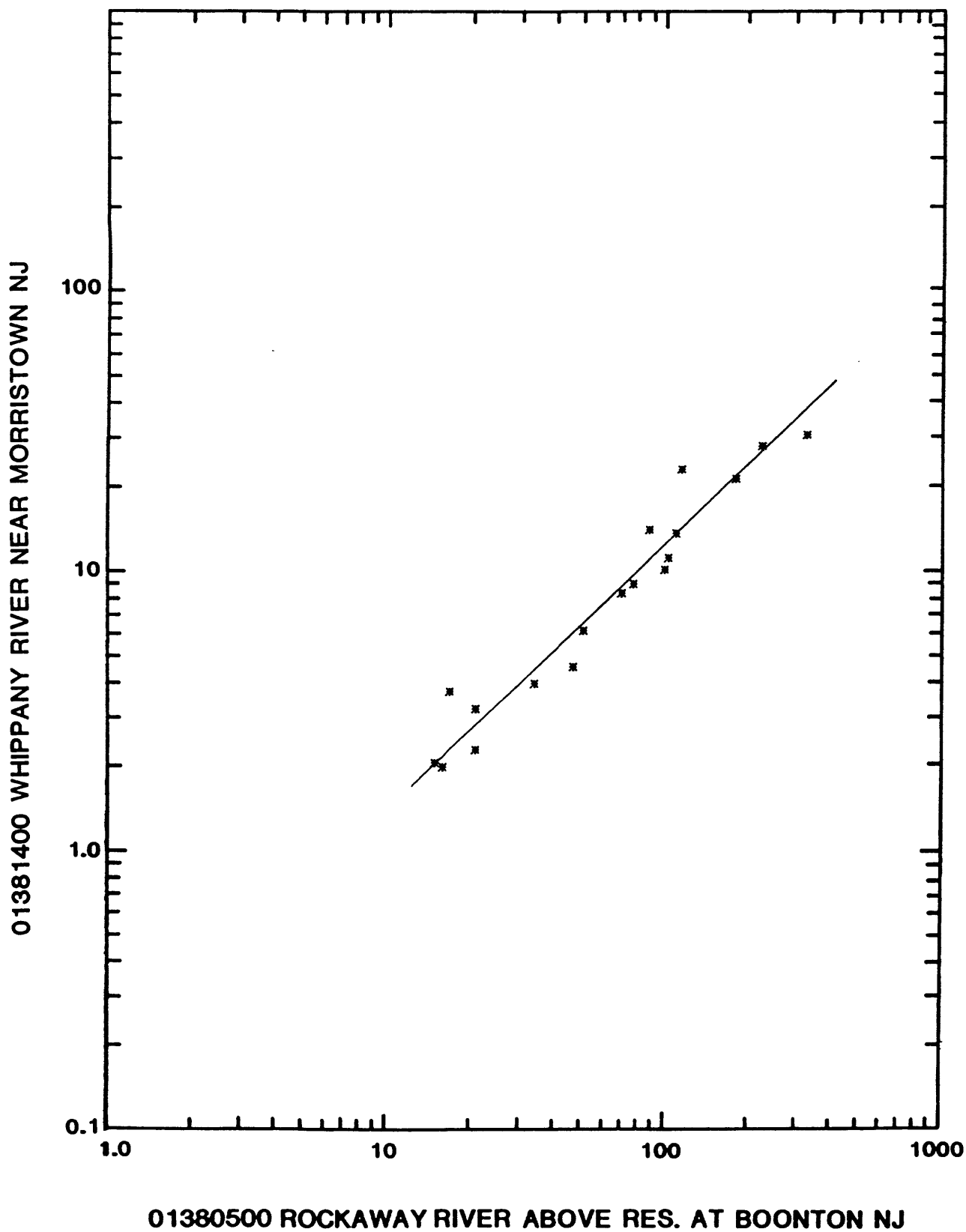


Figure 6.-- Sample of computer plot of low-flow correlation curve for Whippany River near Morristown, New Jersey

LOW-FLOW CORRELATION ANALYSIS

File- 381400-C

X = DISCHARGE (CFS) AT 01380500 ROCKAWAY RIVER ABOVE RESERVOIR AT BOONTON NJ
Y = DISCHARGE (CFS) AT 01381400 WHIPPANY RIVER NEAR MORRISTOWN NJ

| X | Y |
|-----|------|
| 21 | 2.32 |
| 100 | 10.2 |
| 21 | 3.25 |
| 15 | 2.08 |
| 103 | 11.2 |
| 17 | 3.75 |
| 16 | 2.01 |
| 88 | 14.1 |
| 77 | 9.07 |
| 115 | 23.2 |
| 34 | 4 |
| 70 | 8.4 |
| 225 | 28.2 |
| 47 | 4.58 |
| 326 | 30.9 |
| 181 | 21.5 |
| 51 | 6.2 |
| 110 | 13.7 |

LOG X: MEAN= 1.782 , STD DEV= .4117 , STD ERROR EST= .102
LOG Y: MEAN= .8884 , STD DEV= .3913 , STD ERROR EST= .09692

Correlation Coeff= .9688

LEAST SQUARE FIT IN Y DIRECTION

Intercept 1= .1754
Slope 1= .9226

LEAST SQUARE FIT IN X DIRECTION

Intercept 2= .1391
Slope 2= .9792

Final Equation Is $Y = (.1565)X + (.9505)$

7-DAY 2-YEAR LOW-FLOW PREDICTION

013805.00= 30
013814.00= 3.968

7-DAY 10-YEAR LOW-FLOW PREDICTION

013805.00= 16
013814.00= 2.183

Figure 7.-- Sample statistical summary of low-flow correlation data for
Whippany River near Morristown, New Jersey

The station numbers of the continuous gaging stations that were used for correlations are listed in the description of each partial-record site. The correlation analysis of each site was rated either excellent, good, fair, or poor, depending upon the number of base-flow measurements available for analysis, the value of the correlation coefficients, and whether the site was regulated or had streamflow diverted from it upstream. Where it is impossible to estimate low-flow frequencies by correlation, the lowest discharge measurements made at the site and the corresponding dates are listed.

The 2- and 10-year 7-day low flows for continuous gaging stations with less than 7 years of record were estimated using correlation. Fifteen to twenty base-flow daily discharges randomly selected over the period of record were used for correlation instead of base-flow discharge measurements.

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LOW-FLOW CHARACTERISTICS OF GAGING SITES

Flow-duration and low-flow frequency data for continuous-record gaging stations and low-flow partial-record sites in New Jersey are tabulated in this section.

New Jersey is subdivided into seven map segments for locating the stations on maps and indexing them in downstream order. (See figure 8.) Each segment comprises one or more river basins or a part of a river basin. Each section of the report contains one or two map segments, an index of the stations in downstream order, and individual station descriptions and data. The station index lists the location of each station on 7.5-minute U.S. Geological Survey topographic maps. The location of each station and an identifying map number is shown on the map segment.

The "period" on the low-flow frequency tables is in climatic years beginning April 1 of the indicated year, while the "period" on the flow-duration tables is in water years ending September 30 of the indicated year.

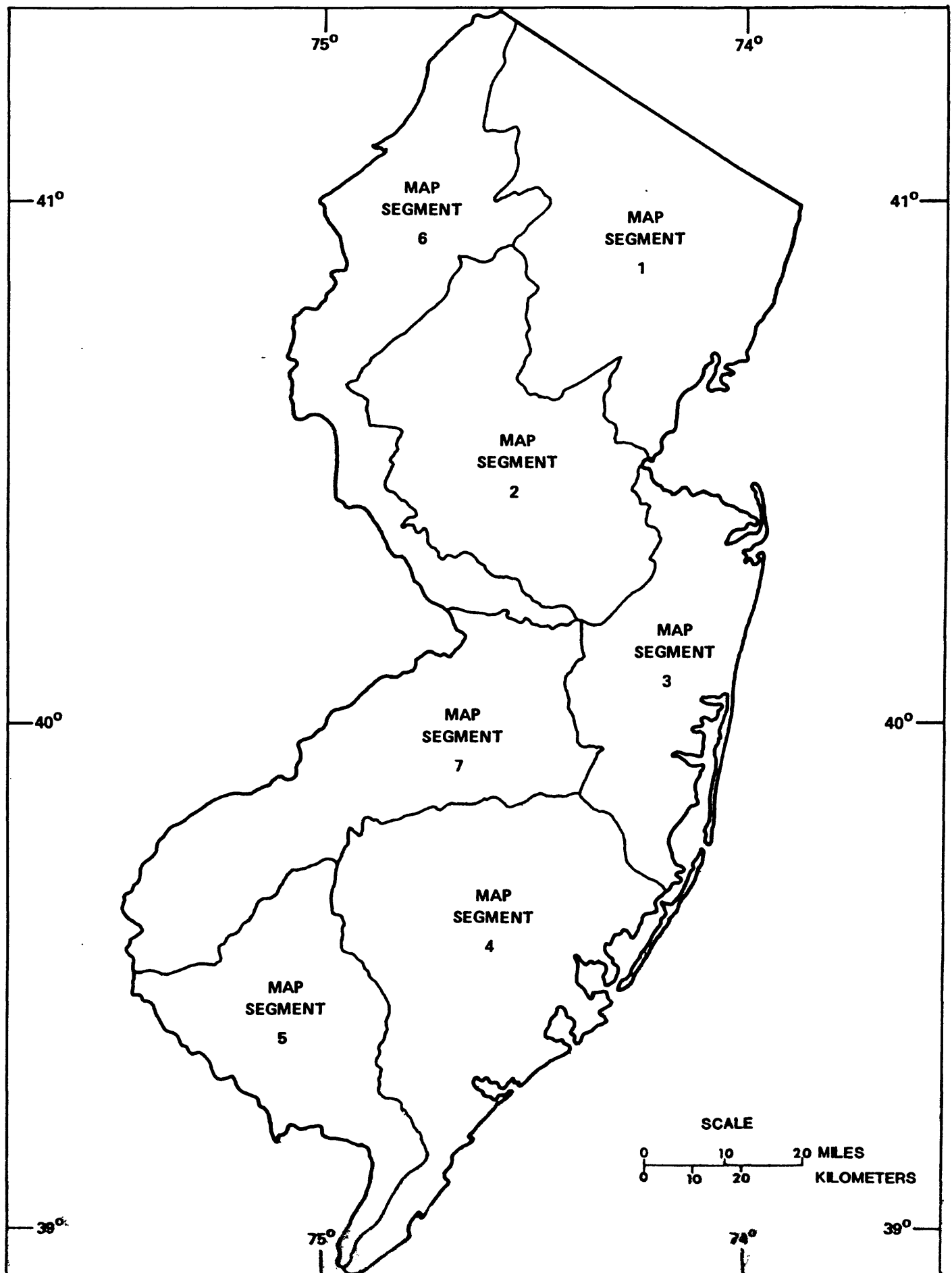


Figure 8.-- Index map of major New Jersey drainage basins

HUDSON, HACKENSACK, PASSAIC, ELIZABETH, AND RAHWAY RIVER BASINS

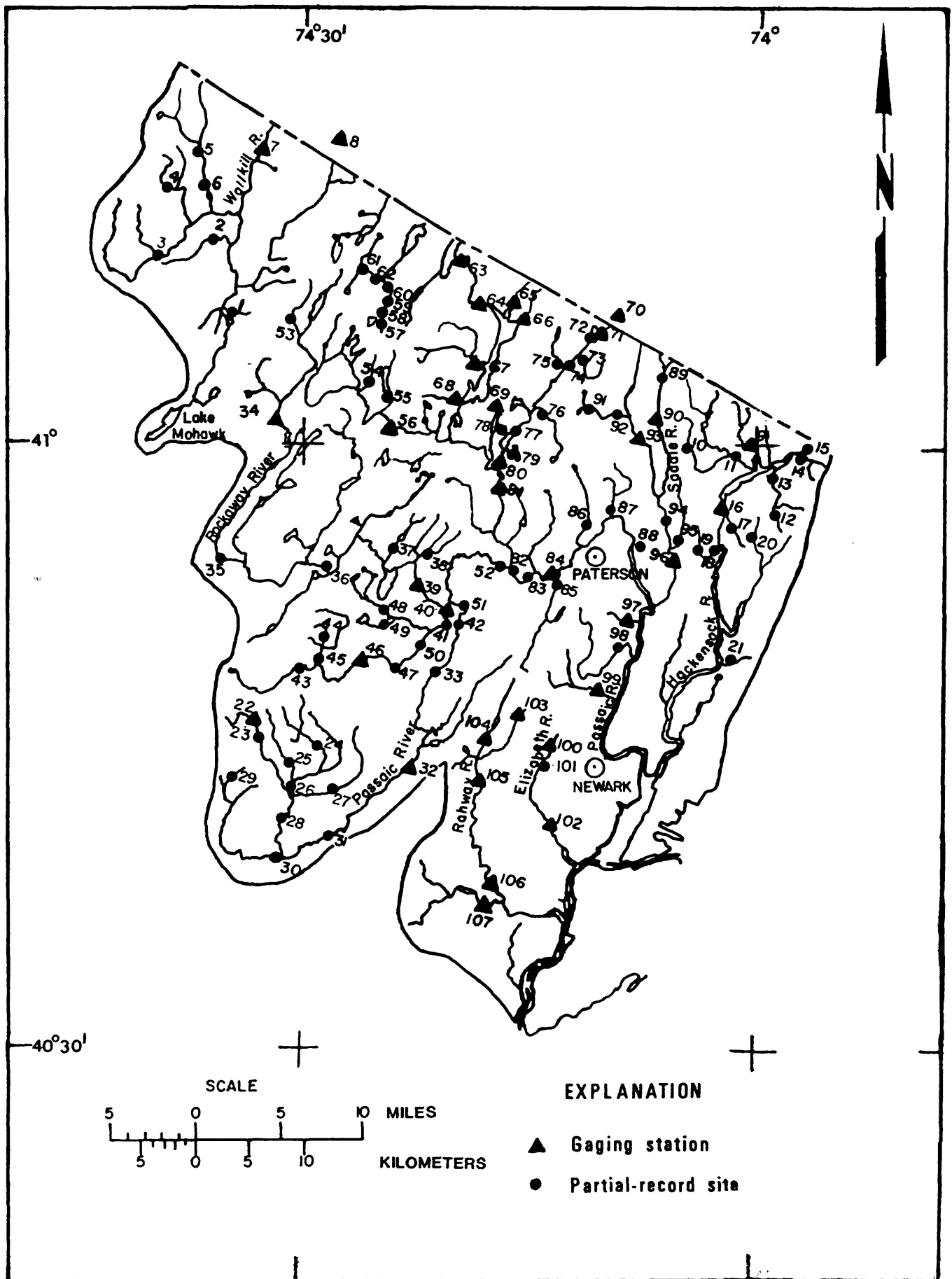


Figure 9.-- Map Segment 1 showing site locations in the Hudson, Hackensack,

Passaic, Elizabeth, and Rahway River basins

ELIZABETH RIVER BASIN - RAHWAY RIVER BASIN

| MAP NO. | STATION NUMBER | STATION NAME | QUADRANGLE MAP 7.5 MINUTE SERIES | PAGE |
|-----------------------------------|----------------|---|----------------------------------|------|
| HUDSON RIVER BASIN | | | | |
| RONDOUT CREEK: | | | | |
| 1 | 01367700 | WALKILL RIVER AT FRANKLIN----- | FRANKLIN----- | 21 |
| 2 | 01367750 | BEAVER RUN NEAR HAMBURG----- | HAMBURG----- | 21 |
| 3 | 01367800 | PAPAKATING CREEK AT PELLETTOWN----- | BRANCHVILLE----- | 21 |
| 4 | 01367850 | WEST BRANCH PAPAKATING CREEK AT MCCOYS CORNER----- | BRANCHVILLE----- | 21 |
| 5 | 01367890 | CLOVE BROOK ABOVE CLOVE ACRES LAKE, AT SUSSEX----- | HAMBURG----- | 22 |
| 6 | 01367900 | CLOVE BROOK AT SUSSEX----- | HAMBURG----- | 22 |
| 7 | 01368000 | WALLKILL RIVER NEAR UNIONVILLE, NY----- | UNIONVILLE----- | 22 |
| 8 | 01369000 | POCHUCK CREEK NEAR PINE ISLAND, NY----- | PINE ISLAND----- | 23 |
| HACKENSACK RIVER BASIN | | | | |
| 9 | 01377000 | HACKENSACK RIVER AT RIVERVALE----- | YONKERS----- | 23 |
| PASCACK BROOK: | | | | |
| 10 | 01377475 | MUSQUAPSINK BROOK NEAR WESTWOOD----- | HACKENSACK----- | 24 |
| 11 | 01377500 | PASCACK BROOK AT WESTWOOD----- | HACKENSACK----- | 24 |
| 12 | 01378350 | TENAKILL BROOK AT CRESSKILL----- | YONKERS----- | 24 |
| 13 | 01378385 | TENAKILL BROOK AT CLOSTER----- | YONKERS----- | 25 |
| 14 | 01378410 | DWARS KILL AT NORWOOD----- | YONKERS----- | 25 |
| 15 | 01378430 | TENAKILL BROOK TRIBUTARY AT NORWOOD----- | YONKERS----- | 25 |
| 16 | 01378500 | HACKENSACK RIVER AT NEW MILFORD----- | HACKENSACK----- | 25 |
| 17 | 01378520 | HIRSHFELD BROOK AT NEW MILFORD----- | HACKENSACK----- | 26 |
| 18 | 01378530 | FRENCH BROOK AT NEW BRIDGE----- | HACKENSACK----- | 26 |
| 19 | 01378560 | COLES BROOK AT HACKENSACK----- | HACKENSACK----- | 26 |
| 20 | 01378590 | METZLER BROOK AT ENGLEWOOD----- | YONKERS----- | 26 |
| 21 | 01378615 | WOLF CREEK AT RIDGEFIELD----- | WEEHAWKEN----- | 27 |
| PASSAIC RIVER BASIN | | | | |
| 22 | 01378690 | PASSAIC RIVER NEAR BERNARDSVILLE----- | BERNARDSVILLE----- | 27 |
| 23 | 01378700 | PASSAIC RIVER AT OUTLET OF OSBORN POND----- | BERNARDSVILLE----- | 27 |
| 24 | 01378750 | GREAT BROOK AT GREEN VILLAGE----- | CHATHAM----- | 27 |
| 25 | 01378800 | PRIMROSE BROOK NEAR NEW VERNON----- | BERNARDSVILLE----- | 28 |
| 26 | 01378850 | GREAT BROOK NEAR BASKING RIDGE----- | BERNARDSVILLE----- | 28 |
| 27 | 01378900 | BLACK BROOK NEAR MEYERSVILLE----- | CHATHAM----- | 28 |
| 28 | 01379000 | PASSAIC RIVER NEAR MILLINGTON----- | BERNARDSVILLE----- | 28 |
| DEAD RIVER: | | | | |
| 29 | 01379150 | HARRISONS BROOK AT LIBERTY CORNER----- | BERNARDSVILLE----- | 29 |
| 30 | 01379200 | DEAD RIVER NEAR MILLINGTON----- | BERNARDSVILLE----- | 29 |
| 31 | 01379300 | PASSAIC RIVER AT STIRLING----- | CHATHAM----- | 29 |
| 32 | 01379500 | PASSAIC RIVER NEAR CHATHAM----- | CHATHAM----- | 29 |
| 33 | 01379570 | PASSAIC RIVER AT HANOVER----- | CALDWELL----- | 30 |
| ROCKAWAY RIVER: | | | | |
| RUSSIA BROOK: | | | | |
| 34 | 01379630 | RUSSIA BROOK TRIBUTARY AT MILTON----- | FRANKLIN----- | 30 |
| 35 | 01379700 | ROCKAWAY RIVER AT BERKSHIRE VALLEY----- | DOVER----- | 30 |
| 36 | 01379750 | ROCKAWAY RIVER AT DOVER----- | DOVER----- | 30 |
| BEAVER BROOK: | | | | |
| 37 | 01380050 | HIBERNIA BROOK AT OUTLET OF LAKE TELEMAR----- | DOVER----- | 31 |
| 38 | 01380300 | STONY BROOK NEAR ROCKAWAY VALLEY----- | BOONTON----- | 31 |
| 39 | 01380500 | ROCKAWAY RIVER ABOVE RESERVOIR, AT BOONTON----- | BOONTON----- | 31 |
| 40 | 01381000 | ROCKAWAY RIVER BELOW RESERVOIR, AT BOONTON----- | BOONTON----- | 32 |
| 41 | 01381150 | CROOKED BROOK NEAR BOONTON----- | POMPTON PLAINS----- | 32 |
| 42 | 01381200 | ROCKAWAY RIVER AT PINE BROOK----- | CALDWELL----- | 32 |
| 43 | 01381400 | WHIPPANY RIVER NEAR MORRISTOWN----- | MENDHAM----- | 32 |
| WHIPPANY RIVER TRIBUTARY (NO. 1): | | | | |
| 44 | 01381470 | WHIPPANY RIVER TRIB NO. 2 AT GREYSTONE PARK STATE HOSPITAL----- | MENDHAM----- | 33 |
| 45 | 01381490 | WHIPPANY RIVER TRIBUTARY (NO. 1) AT MORRIS PLAINS----- | MORRISTOWN----- | 33 |
| 46 | 01381500 | WHIPPANY RIVER AT MORRISTOWN----- | MORRISTOWN----- | 33 |
| 47 | 01381600 | WHIPPANY RIVER NEAR WHIPPANY----- | MORRISTOWN----- | 33 |
| 48 | 01381700 | TROY BROOK AT TROY HILLS----- | MORRISTOWN----- | 34 |
| 49 | 01381750 | WEST BROOK AT TROY HILLS----- | MORRISTOWN----- | 34 |
| 50 | 01381800 | WHIPPANY RIVER NEAR PINE BROOK----- | CALDWELL----- | 34 |
| 51 | 01381900 | PASSAIC RIVER AT PINE BROOK----- | CALDWELL----- | 34 |
| 52 | 01382000 | PASSAIC RIVER AT TWO BRIDGES----- | POMPTON PLAINS----- | 35 |
| 53 | 01382050 | PEQUANNOCK RIVER NEAR STOCKHOLM----- | FRANKLIN----- | 35 |
| 54 | 01382360 | KANOUSE BROOK AT NEWFOUNDLAND----- | NEWFOUNDLAND----- | 35 |
| 55 | 01382450 | MACOPIN RIVER AT MACOPIN RESERVOIR----- | NEWFOUNDLAND----- | 35 |
| 56 | 01382500 | PEQUANNOCK RIVER AT MACOPIN INTAKE DAM----- | NEWFOUNDLAND----- | 36 |
| WANAQUE RIVER: | | | | |
| 57 | 01382870 | BELCHER CREEK AT STOWAWAY ROAD, AT WEST MILFORD----- | NEWFOUNDLAND----- | 36 |
| 58 | 01382880 | BELCHER CREEK TRIBUTARY AT WEST MILFORD----- | WAWAYANDA----- | 36 |
| 59 | 01382890 | BELCHER CREEK AT WEST MILFORD----- | GREENWOOD LAKE----- | 36 |
| 60 | 01382910 | MORSETOWN BROOK AT WEST MILFORD----- | GREENWOOD LAKE----- | 37 |
| 61 | 01382960 | GREEN BROOK NEAR WEST MILFORD----- | GREENWOOD LAKE----- | 37 |
| 62 | 01382990 | COOLEY BROOK NEAR WEST MILFORD----- | GREENWOOD LAKE----- | 37 |
| 63 | 01383500 | WANAQUE RIVER AT AWOSTING----- | WANAQUE----- | 37 |
| 64 | 01384000 | WANAQUE RIVER AT MONKS----- | WANAQUE----- | 38 |
| 65 | 01384500 | RINGWOOD CREEK NEAR WANAQUE----- | WANAQUE----- | 38 |
| 66 | 01385000 | CUPSAW BROOK NEAR WANAQUE----- | WANAQUE----- | 39 |
| 67 | 01386000 | WEST BROOK NEAR WANAQUE----- | WANAQUE----- | 39 |
| 68 | 01386500 | BLUE MINE BROOK NEAR WANAQUE----- | WANAQUE----- | 40 |
| 69 | 01387000 | WANAQUE RIVER AT WANAQUE----- | WANAQUE----- | 40 |
| RAMAPO RIVER: | | | | |
| 70 | 01387450 | MAHWAH RIVER NEAR SUFFERN, NY----- | SLOATSBURG----- | 41 |
| 71 | 01387500 | RAMAPO RIVER NEAR MAHWAH----- | RAMSEY----- | 41 |
| 72 | 01387520 | STAG BROOK NEAR MAHWAH----- | RAMSEY----- | 41 |
| 73 | 01387600 | DARLINGTON BROOK AT DARLINGTON----- | RAMSEY----- | 42 |
| 74 | 01387670 | RAMAPO RIVER NEAR DARLINGTON----- | RAMSEY----- | 42 |
| 75 | 01387700 | BEAR SWAMP BROOK NEAR OAKLAND----- | RAMSEY----- | 42 |

ELIZABETH RIVER BASIN - RAHWAY RIVER BASIN

| MAP NO. | STATION NUMBER | STATION NAME | QUADRANGLE MAP 7.5 MINUTE SERIES | PAGE |
|---------------------------------------|-------------------|---|-------------------------------------|------|
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| <u>PEQUANNOCK RIVER:</u> | | | | |
| <u>RAMAPO RIVER:</u> | | | | |
| 76 | 01387880 | POND BROOK AT OAKLAND----- | RAMSEY----- | 42 |
| 77 | 01387930 | RAMAPO RIVER TRIBUTARY NO. 5 AT OAKLAND----- | WANAQUE----- | 43 |
| 78 | 01387950 | RAMAPO RIVER TRIBUTARY NO. 6 AT POMPTON LAKES----- | WANAQUE----- | 43 |
| 79 | 01387980 | HAYCOCK BROOK AT POMPTON LAKES----- | POMPTON PLAINS--- | 43 |
| 80 | 01388000 | RAMAPO RIVER AT POMPTON LAKES----- | POMPTON PLAINS--- | 43 |
| 81 | 01388500 | POMPTON RIVER AT POMPTON PLAINS----- | POMPTON PLAINS--- | 44 |
| 82 | 01389000 | POMPTON RIVER AT TWO BRIDGES----- | POMPTON PLAINS--- | 44 |
| 83 | 01389100 | SINGAC BROOK AT SINGAC----- | POMPTON PLAINS--- | 44 |
| 84 | 01389500 | PASSAIC RIVER AT LITTLE FALLS----- | PATERSON----- | 45 |
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| 86 | 01389790 | MOLLY ANN BROOK AT PATERSON----- | PATERSON----- | 45 |
| 87 | 01389850 | GOFFLE BROOK AT HAWTHORNE----- | PATERSON----- | 45 |
| 88 | 01389905 | FLEISCHER BROOK AT ELMWOOD PARK----- | PATERSON----- | 46 |
| 89 | 01390450 | SADDLE RIVER AT UPPER SADDLE RIVER----- | PARK RIDGE----- | 46 |
| 90 | 01390500 | SADDLE RIVER AT RIDGEWOOD----- | HACKENSACK----- | 46 |
| 91 | 01390700 | HOHOKUS BROOK AT WYCKOFF----- | RAMSEY----- | 47 |
| 92 | 01390800 | VALENTINE BROOK AT ALLENDALE----- | RAMSEY----- | 47 |
| 93 | 01391000 | HOHOKUS BROOK AT HOHOKUS----- | HACKENSACK----- | 47 |
| 94 | 01391110 | SADDLE RIVER AT PARAMUS----- | HACKENSACK----- | 47 |
| 95 | 01391485 | SPROUT BROOK AT ROCHELLE PARK----- | HACKENSACK----- | 47 |
| 96 | 01391500 | SADDLE RIVER AT LODI----- | HACKENSACK----- | 48 |
| 97 | 01392000 | WEASEL BROOK AT CLIFTON----- | ORANGE----- | 48 |
| 98 | 01392200 | THIRD RIVER AT NUTLEY----- | ORANGE----- | 49 |
| 99 | 01392500 | SECOND RIVER AT BELLEVILLE----- | ORANGE----- | 49 |
| <u>ELIZABETH RIVER BASIN</u> | | | | |
| 100 | 01393000 | ELIZABETH RIVER AT IRVINGTON----- | ELIZABETH----- | 49 |
| 101 | 01393200 | ELIZABETH RIVER BELOW CHANCELLOR AVENUE BRIDGE, AT IRVINGTON----- | ELIZABETH----- | 50 |
| 102 | 01393450 | ELIZABETH RIVER AT URSINO LAKE, AT ELIZABETH----- | ELIZABETH----- | 50 |
| <u>RAHWAY RIVER BASIN</u> | | | | |
| <u>RAHWAY RIVER:</u> | | | | |
| 103 | 01393800 | EAST FORK EAST BRANCH RAHWAY RIVER AT WEST ORANGE----- | ORANGE----- | 50 |
| 104 | 01394000 | WEST BRANCH RAHWAY RIVER AT MILLBURN----- | ROSELLE----- | 51 |
| 105 | 01394500 | RAHWAY RIVER NEAR SPRINGFIELD----- | ROSELLE----- | 51 |
| 106 | 01395000 | RAHWAY RIVER AT RAHWAY----- | PERTH AMBOY----- | 52 |
| 107 | 01396000 | ROBINSONS BRANCH RAHWAY RIVER AT RAHWAY----- | PERTH AMBOY----- | 52 |

01367700 WALLKILL RIVER AT FRANKLIN, NJ

LOCATION -- LAT 41 06 43, LONG 074 35 21, SUSSEX COUNTY, AT BRIDGE 120 FT (40 M) DOWNSTREAM FROM DAM AT OUTLET OF FRANKLIN POND IN FRANKLIN, AND 0.8 MI (1.3 KM) UPSTREAM FROM WILDCAT BROOK.
 DRAINAGE AREA -- 29.4 SQ-MI (76.1 SQ-KM)
 TRIBUTARY TO -- RONDOUT CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01440000, 014435000 AND 01368000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-63
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.2 (0.12) | 2.0 (0.06) |

01367750 BEAVER RUN NEAR HAMBURG, NJ

LOCATION -- LAT 41 10 52, LONG 074 35 27, SUSSEX COUNTY, AT BRIDGE ON STATE ROUTE 23, 1.0 MI (1.6 KM) UPSTREAM FROM MOUTH, AND 2.2 MI (3.5 KM) NORTH OF HAMBURG.
 DRAINAGE AREA -- 5.59 SQ-MI (14.48 SQ-KM)
 TRIBUTARY TO -- WALLKILL RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.0 (0.03) | 0.5 (0.01) |

01367800 PAPA KATING CREEK AT PELLETOWN, NJ

LOCATION -- LAT 41 09 45, LONG 074 40 31, SUSSEX COUNTY, AT BRIDGE ON STATE ROUTE 565 IN PELLETOWN, 4.5 MI (7.2 KM) UPSTREAM FROM WEST BRANCH, AND 4.8 MI (7.7 KM) SOUTHWEST OF SUSSEX.
 DRAINAGE AREA -- 15.8 SQ-MI (40.9 SQ-KM)
 TRIBUTARY TO -- WALLKILL RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.6 (0.05) | 0.8 (0.02) |

01367850 WEST BRANCH PAPA KATING CREEK AT MCCOYS CORNER, NJ

LOCATION -- LAT 41 11 49, LONG 074 37 55, SUSSEX COUNTY, AT MCCOYS CORNER, 0.8 MI (1.3 KM) UPSTREAM FROM MOUTH, AND 1.7 MI (2.7 KM) SOUTHWEST OF INTERSECTION OF STATE ROUTES 23 AND 284 AT SUSSEX.
 DRAINAGE AREA -- 11.0 SQ-MI (28.5 SQ-KM)
 TRIBUTARY TO -- PAPA KATING CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1967-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.6 (0.02) | 0.2 (0.01) |

HUDSON RIVER BASIN

01367890 CLOVE BROOK ABOVE CLOVE ACRES LAKE, AT SUSSEX, NJ

LOCATION -- LAT 41 13 13, LONG 074 36 54, SUSSEX COUNTY, ON ROAD TO LIBERTYVILLE, 0.1 MI (0.2 KM) NORTHWEST OF FORK FROM STATE ROUTE 23, AND 0.8 MI (1.3 KM) NORTH OF MOUTH OF CLOVE ACRES LAKE, AT SUSSEX.
 DRAINAGE AREA -- 19.2 SQ-MI (49.7 SQ-KM)
 TRIBUTARY TO -- PAPA KATING CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1967-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.5 (0.04) | 0.6 (0.02) |

01367900 CLOVE BROOK AT SUSSEX, NJ

LOCATION -- LAT 41 12 40, LONG 074 36 42, SUSSEX COUNTY, AT OUTLET OF CLOVE ACRES LAKE IN SUSSEX, AND 1.0 MI (1.6 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 19.7 SQ-MI (51.0 SQ-KM)
 TRIBUTARY TO -- PAPA KATING CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-63
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.3 (0.07) | 1.2 (0.03) |

01368000 WALLKILL RIVER NEAR UNIONVILLE, NY

LOCATION -- LAT 41 15 36, LONG 074 32 56, SUSSEX COUNTY, ON RIGHT BANK ON DOWNSTREAM SIDE OF BRIDGE ON BASSETTS BRIDGE ROAD, 0.6 MI (1.0 KM) UPSTREAM FROM SMALL TRIBUTARY, 2.0 MI (3.2 KM) SOUTH OF THE NEW YORK-NEW JERSEY STATE LINE, AND 3.0 MI (4.8 KM) SOUTH OF UNIONVILLE.
 DRAINAGE AREA -- 140 SQ-MI (363 SQ-KM)
 TRIBUTARY TO -- RONDOUT CREEK
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 215 CU FT/S (6.09 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 5240 CU FT/S (148 CU M/S)
 MINIMUM 4.2 CU FT/S (0.12 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1938-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 1000 | 740 | 525 | 332 | 228 | 169 | 126 | 92.5 | 65.5 | 42.6 | 25.9 | 17.5 | 12.5 | 9.80 | 7.90 |
| CU M/S | 28.3 | 21.0 | 14.9 | 9.40 | 6.46 | 4.79 | 3.57 | 2.62 | 1.85 | 1.21 | 0.733 | 0.496 | 0.354 | 0.278 | 0.224 |

LOW-FLOW FREQUENCY -- PERIOD 1939-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|------------|------------|
| 3 | 19 (0.54) | 11 (0.31) | 7.7 (0.22) | 5.9 (0.17) |
| 7 | 21 (0.59) | 11 (0.31) | 8.3 (0.24) | 6.4 (0.18) |
| 30 | 28 (0.79) | 16 (0.45) | 11 (0.31) | 8.8 (0.25) |
| 90 | 45 (1.3) | 23 (0.65) | 17 (0.48) | 13 (0.37) |

01369000 POCHUCK CREEK NEAR PINE ISLAND, NY

LOCATION -- LAT 41 16 32, LONG 074 28 18, ORANGE COUNTY, ON RIGHT BANK 75 FT (25 M) DOWNSTREAM FROM BRIDGE ON NEWPORT BRIDGE ROAD AT NEWPORT, 1.5 MI (2.4 KM) SOUTH OF PINE ISLAND, 3.2 MI (5.1 KM) WEST OF EDENVILLE, AND 4.1 MI (6.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 98.0 SQ-MI (253.8 SQ-KM)

TRIBUTARY TO -- WALLKILL RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 165 CU FT/S (4.67 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 2700 CU FT/S (76.5 CU M/S)
MINIMUM 1.3 CU FT/S (0.04 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1938-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 779 | 552 | 398 | 263 | 186 | 135 | 99.2 | 70.7 | 47.1 | 28.6 | 13.6 | 8.14 | 5.64 | 4.59 | 3.90 |
| CU M/S | 22.1 | 15.6 | 11.3 | 7.45 | 5.27 | 3.82 | 2.81 | 2.00 | 1.33 | 0.810 | 0.385 | 0.231 | 0.160 | 0.130 | 0.110 |

LOW-FLOW FREQUENCY -- PERIOD 1939-75

PERIOD OF
CONSECUTIVE
DAYS

2 YEARS

5 YEARS

10 YEARS

20 YEARS

| | | | | |
|----|-----------|------------|------------|------------|
| 3 | 10 (0.28) | 4.9 (0.14) | 3.4 (0.10) | 2.5 (0.07) |
| 7 | 11 (0.31) | 5.2 (0.15) | 3.6 (0.10) | 2.6 (0.07) |
| 30 | 14 (0.40) | 7.1 (0.20) | 5.0 (0.14) | 3.7 (0.10) |
| 90 | 26 (0.74) | 12 (0.34) | 7.7 (0.22) | 5.4 (0.15) |

01377000 HACKENSACK RIVER AT RIVERVALE, NJ

LOCATION -- LAT 40 59 55, LONG 073 59 27, BERGEN COUNTY, ON RIGHT BANK AT WESTWOOD AVENUE IN RIVERVALE, 1.5 MI (2.5 KM) UPSTREAM FROM PASCACK BROOK, 4.6 MI (7.4 KM) UPSTREAM FROM ORADELL DAM, AND 27.2 MI (43.8 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 58.0 SQ-MI (150.2 SQ-KM)

TRIBUTARY TO -- NEWARK BAY

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 89.5 CU FT/S (2.53 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 1450 CU FT/S (41.1 CU M/S)
MINIMUM 5.8 CU FT/S (0.16 CU M/S)

REMARKS -- REGULATION SINCE FEBRUARY 1956 REDUCES FLOOD PEAKS AND AUGMENTS LOW FLOW. DIVERSION SIGNIFICANT AT LOW FLOW ONLY.

DURATION TABLE OF DAILY FLOW -- PERIOD 1942-56

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 447 | 289 | 212 | 151 | 113 | 87.5 | 65.6 | 49.7 | 38.1 | 26.8 | 17.1 | 13.2 | 10.0 | 7.94 | 7.13 |
| CU M/S | 12.7 | 8.18 | 6.00 | 4.28 | 3.20 | 2.48 | 1.86 | 1.41 | 1.08 | 0.759 | 0.484 | 0.374 | 0.283 | 0.225 | 0.202 |

DURATION TABLE OF DAILY FLOW -- PERIOD 1957-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 329 | 230 | 160 | 111 | 89.3 | 72.6 | 58.6 | 47.0 | 37.6 | 30.0 | 22.2 | 18.4 | 14.8 | 12.5 | 10.0 |
| CU M/S | 9.32 | 6.51 | 4.53 | 3.14 | 2.53 | 2.06 | 1.66 | 1.33 | 1.06 | 0.850 | 0.629 | 0.521 | 0.419 | 0.354 | 0.283 |

LOW-FLOW FREQUENCY -- PERIOD 1942-56

PERIOD OF
CONSECUTIVE
DAYS

2 YEARS

5 YEARS

10 YEARS

20 YEARS

| | | | | |
|----|-----------|------------|------------|------------|
| 3 | 11 (0.31) | 7.8 (0.22) | 6.7 (0.19) | 5.9 (0.17) |
| 7 | 12 (0.34) | 8.6 (0.24) | 7.3 (0.21) | 6.5 (0.18) |
| 30 | 16 (0.45) | 11 (0.31) | 9.5 (0.27) | 8.4 (0.24) |
| 90 | 28 (0.79) | 17 (0.48) | 14 (0.40) | 11 (0.31) |

LOW-FLOW FREQUENCY -- PERIOD 1957-75

PERIOD OF
CONSECUTIVE
DAYS

2 YEARS

10 YEARS

| | | |
|---|-----------|-----------|
| 7 | 16 (0.45) | 10 (0.28) |
|---|-----------|-----------|

01377475 MUSQUAPSINK BROOK NEAR WESTWOOD, NJ

LOCATION -- LAT 40 59 41, LONG 074 03 42, BERGEN COUNTY, AT CULVERT ON PASCACK ROAD IN WASHINGTON BOROUGH, 0.2 MI (0.3 KM) SOUTH OF WASHINGTON AVENUE, 1.5 MI (2.4 KM) WEST OF WESTWOOD, AND 5.3 MI (8.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 2.12 SQ-MI (5.49 SQ-KM)

TRIBUTARY TO -- PASCACK BROOK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01390500 AND 01391000. CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1964-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.8 (0.02) | 0.5 (0.01) |

01377500 PASCACK BROOK AT WESTWOOD, NJ

LOCATION -- LAT 40 59 33, LONG 074 01 19, BERGEN COUNTY, ON RIGHT BANK 75 FT (25 M) UPSTREAM FROM HARRINGTON AVENUE IN WESTWOOD, 500 FT (150 M) DOWNSTREAM FROM MUSQUAPSINK BROOK, AND 2.3 MI (3.7 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 29.6 SQ-MI (76.7 SQ-KM)

TRIBUTARY TO -- HACKENSACK RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 54.1 CU FT/S (1.53 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 1770 CU FT/S (50.1 CU M/S)

MINIMUM 6.1 CU FT/S (0.17 CU M/S)

REMARKS -- REGULATION REDUCES FLOOD PEAKS AND AUGMENTS LOW FLOW. DIVERSION FROM WELLS MAY BE SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1935-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | | | | | | | | | | | | | | | |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
| CU FT/S | 221 | 138 | 98.2 | 68.4 | 54.6 | 46.2 | 39.6 | 34.1 | 29.3 | 23.9 | 16.4 | 12.4 | 9.68 | 8.60 | 7.82 |
| CU M/S | 6.26 | 3.91 | 2.78 | 1.94 | 1.55 | 1.31 | 1.12 | 0.966 | 0.830 | 0.677 | 0.464 | 0.351 | 0.274 | 0.244 | 0.221 |

LOW-FLOW FREQUENCY -- PERIOD 1936-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | | | | |
|----|-----------|------------|------------|------------|
| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
| 3 | 13 (0.37) | 9.3 (0.26) | 7.8 (0.22) | 6.7 (0.19) |
| 7 | 14 (0.40) | 9.9 (0.28) | 8.3 (0.24) | 7.2 (0.20) |
| 30 | 19 (0.54) | 13 (0.37) | 11 (0.31) | 9.0 (0.25) |
| 90 | 26 (0.74) | 19 (0.54) | 16 (0.45) | 13 (0.37) |

01378350 TENAKILL BROOK AT CRESSKILL, NJ

LOCATION -- LAT 40 56 30, LONG 073 57 52, BERGEN COUNTY, AT BRIDGE ON MADISON AVENUE IN CRESSKILL, 0.2 MI (0.3 KM) WEST OF ERIE-LACKAWANNA RAILROAD STATION, 0.6 MI (1.0 KM) EAST OF KNICKERBOCKER ROAD AND MADISON AVENUE, AND 3.3 MI (5.3 KM) UPSTREAM FROM ORADELL RESERVOIR.

DRAINAGE AREA -- 3.01 SQ-MI (7.80 SQ-KM)

TRIBUTARY TO -- HACKENSACK RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01390500, 01391000 AND 01391500. CORRELATIONS RATED FAIR, REGULATION SUSPECTED.

LOW-FLOW FREQUENCY -- PERIOD 1964-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 1.6 (0.05) | 1.2 (0.03) |

01378385 TENAKILL BROOK AT CLOSTER, NJ

LOCATION -- LAT 40 58 29, LONG 073 58 06, BERGEN COUNTY, AT BRIDGE ON HIGH STREET IN CLOSTER, 0.7 MI (1.1 KM) UPSTREAM FROM MOUTH, AND 2.7 MI (4.3 KM) DOWNSTREAM FROM CREST-STAGE GAGE ON MADISON AVENUE IN CRESSKILL.
 DRAINAGE AREA -- 8.56 SQ-MI (22.17 SQ-KM)
 TRIBUTARY TO -- HACKENSACK RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01390500 AND 01391000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 4.1 (0.12) | 2.7 (0.08) |

01378410 DWARS KILL AT NORWOOD, NJ

LOCATION -- LAT 40 59 01, LONG 073 57 35, BERGEN COUNTY, AT BRIDGE ON BLANCHE AVENUE AT NORWOOD, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 4.23 SQ-MI (10.96 SQ-KM)
 TRIBUTARY TO -- TENAKILL BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01381500 AND 01386000. CORRELATIONS RATED POOR.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.5 (0.01) | 0.3 (0.01) |

01378430 TENAKILL BROOK TRIBUTARY AT NORWOOD, NJ

LOCATION -- LAT 40 59 06, LONG 073 57 39, BERGEN COUNTY, AT BLANCHE AVENUE AT NORWOOD, 1.0 MI (1.6 KM) EAST OF HARRINGTON PARK, AND 1.5 MI (2.4 KM) UPSTREAM FROM ORADELL RESERVOIR.
 DRAINAGE AREA -- 2.03 SQ-MI (5.26 SQ-KM)
 TRIBUTARY TO -- TENAKILL BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01381500 AND 01386000. CORRELATIONS RATED POOR.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.4 (0.01) | 0.3 (0.01) |

01378500 HACKENSACK RIVER AT NEW MILFORD, NJ

LOCATION -- LAT 40 56 52, LONG 074 01 34, BERGEN COUNTY, ON RIGHT BANK UPSTREAM FROM TWO MASONRY DAMS AND TWO LIFT GATES AT PUMPING PLANT OF HACKENSACK WATER CO., NEW MILFORD, 4.0 MI (6.4 KM) DOWNSTREAM FROM PASCACK BROOK, AND 21.8 MI (35.1 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 113 SQ-MI (293 SQ-KM)
 TRIBUTARY TO -- NEWARK BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 107 CU FT/S (3.03 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 4010 CU FT/S (114 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- FLOW REGULATED BY DE FOREST LAKE, LAKE TAPPAN, WOODCLIFF LAKE, AND ORADELL RESERVOIR. WATER DIVERTED AT GAGE, DE FOREST LAKE, AND WEST NYACK, NY, FOR MUNICIPAL SUPPLY.

DURATION TABLE OF DAILY FLOW -- PERIOD 1961-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | NO FLOW ABOUT |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|---------------|
| CU FT/S | 592 | 353 | 182 | 58.6 | 26.5 | 19.2 | 15.7 | 3.00 | 0.144 | 29% OF DAYS |
| CU M/S | 16.8 | 10.0 | 5.15 | 1.66 | 0.750 | 0.544 | 0.445 | 0.085 | 0.004 | IN PERIOD. |

LOW-FLOW FREQUENCY -- PERIOD 1962-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01378520 HIRSHFELD BROOK AT NEW MILFORD, NJ

LOCATION -- LAT 40 56 49, LONG 074 01 00, BERGEN COUNTY, AT BRIDGE ON THE BOULEVARD IN NEW MILFORD, 0.5 MI (0.8 KM) UPSTREAM FROM MOUTH, AND 0.7 MI (1.1 KM) WEST OF DUMONT.

DRAINAGE AREA -- 4.54 SQ-MI (11.76 SQ-KM)

TRIBUTARY TO -- HACKENSACK RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01390500 AND 01391000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1965-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.1 (0.03) | 0.7 (0.02) |

01378530 FRENCH BROOK AT NEW BRIDGE, NJ

LOCATION -- LAT 40 55 00, LONG 074 01 25, BERGEN COUNTY, AT BRIDGE ON NEW BRIDGE ROAD IN NEW BRIDGE, 0.5 MI (0.8 KM) UPSTREAM FROM MOUTH, AND 1.6 MI (2.6 KM) NORTH OF TEANECK.

DRAINAGE AREA -- 0.46 SQ-MI (1.19 SQ-KM)

TRIBUTARY TO -- HACKENSACK RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01391000 AND 01391500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1965-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.1 (0.00) |

01378560 COLES BROOK AT HACKENSACK, NJ

LOCATION -- LAT 40 54 40, LONG 074 02 26, BERGEN COUNTY, AT BRIDGE ON MAIN STREET IN HACKENSACK, 0.8 MI (1.3 KM) UPSTREAM FROM MOUTH, AND 1.9 MI (3.1 KM) NORTHWEST OF TEANECK.

DRAINAGE AREA -- 7.00 SQ-MI (18.13 SQ-KM)

TRIBUTARY TO -- HACKENSACK RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01391000 AND 01391500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1965-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.3 (0.04) | 0.8 (0.02) |

01378590 METZLER BROOK AT ENGLEWOOD, NJ

LOCATION -- LAT 40 54 29, LONG 073 59 13, BERGEN COUNTY, ON LANTANA AVENUE IN ENGLEWOOD, 1.1 MI (1.8 KM) NORTHWEST OF CITY HALL AND INTERSECTION OF STATE HIGHWAY 505 (PALISADE AVENUE) AND VAN BRUNT STREET (ALSO ERIE LACKAWANNA RAILROAD CROSSING) AND 1.6 MI (2.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 1.54 SQ-MI (3.99 SQ-KM)

TRIBUTARY TO -- OVERPECK CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01391000 AND 01391500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.1 (0.00) |

01378615 WOLF CREEK AT RIDGEFIELD, NJ

LOCATION -- LAT 40 49 45, LONG 074 00 14, BERGEN COUNTY, ON CLARK AVENUE IN RIDGEFIELD, 0.9 MI (1.4 KM) UPSTREAM FROM MOUTH, 1.3 MI (2.1 KM) SOUTHEAST OF NEW JERSEY TURNPIKE INTERCHANGE 18, AND 2.7 MI (4.3 KM) SOUTHWEST OF WESTERN TOLL PLAZA OF GEORGE WASHINGTON BRIDGE.
 DRAINAGE AREA -- 1.18 SQ-MI (3.06 SQ-KM)
 TRIBUTARY TO -- BELLMANS CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01391000 AND 01391500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.3 (0.01) | 0.2 (0.01) |

01378690 PASSAIC RIVER NEAR BERNARDSVILLE, NJ

LOCATION -- LAT 40 44 03, LONG 074 32 26, SOMERSET COUNTY, ON RIGHT BANK ON DOWNSTREAM WINGWALL OF BRIDGE ON U.S. ROUTE 202, 1.8 MI (2.9 KM) NORTHEAST OF BERNARDSVILLE, AND 3.0 MI (4.8 KM) UPSTREAM FROM GREAT BROOK.
 DRAINAGE AREA -- 8.83 SQ-MI (22.87 SQ-KM)
 TRIBUTARY TO -- NEWARK BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 18.9 CU FT/S (0.535 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 646 CU FT/S (18.3 CU M/S)
 MINIMUM 1.9 CU FT/S (0.05 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1968-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 82.2 | 50.7 | 35.7 | 25.1 | 20.2 | 16.7 | 13.5 | 10.9 | 8.22 | 6.43 | 4.61 | 3.42 | 2.60 | 2.36 | 2.25 |
| CU M/S | 2.33 | 1.44 | 1.01 | 0.711 | 0.572 | 0.473 | 0.382 | 0.309 | 0.233 | 0.182 | 0.131 | 0.097 | 0.074 | 0.067 | 0.064 |

LOW-FLOW FREQUENCY -- PERIOD 1969-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.9 (0.11) | 2.3 (0.07) |

01378700 PASSAIC RIVER AT OUTLET OF OSBORN POND, NJ

LOCATION -- LAT 40 43 09, LONG 074 31 52, SOMERSET COUNTY, ABOUT 800 FT (240 M) DOWNSTREAM FROM DAM ON OSBORN POND (JUST BELOW CONFLUENCE OF TWO CHANNELS), 0.9 MI (1.4 KM) ABOVE PENNS BROOK, AND 1.3 MI (2.1 KM) NORTHEAST OF BASKING RIDGE.
 DRAINAGE AREA -- 10.1 SQ-MI (26.2 SQ-KM)
 TRIBUTARY TO -- NEWARK BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- DIVERSIONS FROM OSBORN POND BY COMMONWEALTH WATER COMPANY. LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01379500 AND 01381500. CORRELATIONS RATED POOR.

LOW-FLOW FREQUENCY -- PERIOD 1961-68
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.0 (0.03) | 0.3 (0.01) |

01378750 GREAT BROOK AT GREEN VILLAGE, NJ

LOCATION -- LAT 40 44 22, LONG 074 27 32, MORRIS COUNTY, AT BRIDGE ON GREEN VILLAGE ROAD IN GREEN VILLAGE, 1.2 MI (1.9 KM) UPSTREAM FROM LOANTAKA BROOK, AND 2.5 MI (4.0 KM) SOUTHWEST OF MADISON.
 DRAINAGE AREA -- 7.92 SQ-MI (20.51 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01379500 AND 01381500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1961-65
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.1 (0.03) | 0.4 (0.01) |

PASSAIC RIVER BASIN

01378800 PRIMROSE BROOK NEAR NEW VERNON, NJ

LOCATION -- LAT 40 43 42, LONG 074 30 58, MORRIS COUNTY, AT BRIDGE ON LEES HILL ROAD, 0.9 MI (1.4 KM) UPSTREAM FROM GREAT BROOK, 1.5 MI (3.4 KM) SOUTHWEST OF NEW VERNON, AND 2.3 MI (3.7 KM) NORTHEAST OF BASKING RIDGE.
 DRAINAGE AREA -- 4.68 SQ-MI (12.12 SQ-KM)
 TRIBUTARY TO -- GREAT BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01379500 AND 01381500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1961-65
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 1.2 (0.03) | 0.6 (0.02) |

01378850 GREAT BROOK NEAR BASKING RIDGE, NJ

LOCATION -- LAT 40 42 49, LONG 074 30 59, SOMERSET COUNTY, AT BRIDGE ON PLEASANT PLAINS ROAD, 0.6 MI (1.0 KM) UPSTREAM FROM MOUTH, 1.8 MI (2.9 KM) EAST OF BASKING RIDGE, AND 2.7 MI (4.3 KM) NORTH OF MILLINGTON.
 DRAINAGE AREA -- 23.1 SQ-MI (59.8 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01379500 AND 01381500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1961-65
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 2.2 (0.06) | 0.7 (0.02) |

01378900 BLACK BROOK NEAR MEYERSVILLE, NJ

LOCATION -- LAT 40 41 44, LONG 074 29 47, MORRIS COUNTY, AT BRIDGE ON PLEASANT PLAINS ROAD, 1.2 MI (1.9 KM) UPSTREAM FROM MOUTH, 1.4 MI (2.3 KM) NORTHWEST OF MEYERSVILLE, AND 1.5 MI (2.4 KM) NORTH OF STIRLING.
 DRAINAGE AREA -- 11.7 SQ-MI (30.3 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01379500 AND 01381500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-63
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01379000 PASSAIC RIVER NEAR MILLINGTON, NJ

LOCATION -- LAT 40 40 48, LONG 074 31 45, SOMERSET COUNTY, ON RIGHT BANK 200 FT (60 M) DOWNSTREAM FROM DAVIS BRIDGE, 0.7 MI (1.1 KM) NORTHWEST OF MILLINGTON, AND 1.8 MI (2.9 KM) DOWNSTREAM FROM BLACK BROOK.
 DRAINAGE AREA -- 55.4 SQ-MI (143.5 SQ-KM)
 TRIBUTARY TO -- NEWARK BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 88.4 CU FT/S (2.50 CU M/S), ADJUSTED FOR DIVERSION.
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1800 CU FT/S (51.0 CU M/S)
 MINIMUM 0.3 CU FT/S (0.01 CU M/S)
 REMARKS -- DIVERSION SIGNIFICANT AT LOW FLOW ONLY.

DURATION TABLE OF DAILY FLOW -- PERIOD 1905-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 464 | 323 | 222 | 135 | 91 | 63.8 | 46.0 | 32.4 | 21.7 | 13.9 | 7.65 | 4.53 | 2.30 | 1.58 | 1.10 |
| CU M/S | 13.1 | 9.15 | 6.29 | 3.82 | 2.58 | 1.81 | 1.30 | 0.918 | 0.615 | 0.394 | 0.217 | 0.128 | 0.065 | 0.045 | 0.031 |

LOW-FLOW FREQUENCY -- PERIOD 1905-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | | | |
|----|------------|------------|------------|------------|
| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
| 3 | 4.6 (0.13) | 2.1 (0.06) | 1.3 (0.04) | 0.8 (0.02) |
| 7 | 5.4 (0.15) | 2.5 (0.07) | 1.5 (0.04) | 1.0 (0.03) |
| 30 | 8.5 (0.24) | 3.9 (0.11) | 2.5 (0.07) | 1.6 (0.05) |
| 90 | 16 (0.45) | 7.3 (0.21) | 4.6 (0.13) | 3.1 (0.09) |

PASSAIC RIVER BASIN

01379150 HARRISONS BROOK AT LIBERTY CORNER, NJ

LOCATION -- LAT 40 40 27, LONG 074 34 14, SOMERSET COUNTY, AT BRIDGE ON LYONS ROAD, 0.8 MI (1.3 KM) NORTHEAST OF LIBERTY CORNER, AND 1.6 MI (2.6 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 3.74 SQ-MI (9.69 SQ-KM)
 TRIBUTARY TO -- DEAD RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01379500 AND 01396500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.1 (0.00) |

01379200 DEAD RIVER NEAR MILLINGTON, NJ

LOCATION -- LAT 40 38 56, LONG 074 31 26, MORRIS COUNTY, AT BRIDGE ON KING GEORGE ROAD (SPUR STATE ROUTE 527), 100 FT (30 M) UPSTREAM FROM MOUTH, 2.0 MI (3.2 KM) SOUTH OF MILLINGTON, AND 4.2 MI (6.8 KM) SOUTH OF BASKING RIDGE.
 DRAINAGE AREA -- 20.8 SQ-MI (53.9 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01379500 AND 01381500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1961-67, 73-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.0 (0.06) | 0.9 (0.03) |

01379300 PASSAIC RIVER AT STIRLING, NJ

LOCATION -- LAT 40 39 57, LONG 074 28 57, MORRIS COUNTY, AT BRIDGE ON PLAINFIELD ROAD, 0.2 MI (0.3 KM) SOUTH OF PASSAIC VALLEY ROAD, 0.8 MI (1.3 KM) SOUTHEAST OF CENTER OF STIRLING, AND 4.1 MI (6.6 KM) BELOW DEAD RIVER.
 DRAINAGE AREA -- 84.1 SQ-MI (217.8 SQ-KM)
 TRIBUTARY TO -- NEWARK BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01379500 AND 01381500. CORRELATIONS RATED FAIR. DIVERSIONS SIGNIFICANT AT LOW FLOW ONLY.

LOW-FLOW FREQUENCY -- PERIOD 1968-73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 7.9 (0.22) | 2.9 (0.08) |

01379500 PASSAIC RIVER NEAR CHATHAM, NJ

LOCATION -- LAT 40 43 31, LONG 074 23 23, MORRIS COUNTY, ON LEFT BANK 150 FT (50 M) DOWNSTREAM FROM STANLEY AVENUE BRIDGE IN CHATHAM, AND 3.0 MI (4.8 KM) UPSTREAM FROM CANOE BROOK.
 DRAINAGE AREA -- 100 SQ-MI (259 SQ-KM)
 TRIBUTARY TO -- NEWARK BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 168 CU FT/S (4.76 CU M/S), ADJUSTED FOR DIVERSION.
 DAILY DISCHARGE EXTREMES -- MAXIMUM 2990 CU FT/S (84.7 CU M/S)
 MINIMUM 2.0 CU FT/S (0.06 CU M/S)
 REMARKS -- DIVERSION SIGNIFICANT AT LOW FLOW ONLY.

DURATION TABLE OF DAILY FLOW -- PERIOD 1904-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 899 | 641 | 456 | 266 | 167 | 113 | 78.8 | 55.1 | 36.5 | 22.6 | 13.6 | 8.54 | 6.00 | 4.57 | 4.01 |
| CU M/S | 25.5 | 18.2 | 12.9 | 7.53 | 4.73 | 3.20 | 2.23 | 1.56 | 1.03 | 0.640 | 0.385 | 0.242 | 0.170 | 0.129 | 0.114 |

LOW-FLOW FREQUENCY -- PERIOD 1904-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 7.8 (0.22) | 4.3 (0.12) | 3.0 (0.08) | 2.3 (0.07) |
| 7 | 8.7 (0.25) | 4.8 (0.14) | 3.4 (0.10) | 2.6 (0.07) |
| 30 | 14 (0.40) | 7.6 (0.22) | 5.6 (0.16) | 4.3 (0.12) |
| 90 | 30 (0.85) | 16 (0.45) | 11 (0.31) | 8.6 (0.24) |

01379570 PASSAIC RIVER AT HANOVER, NJ

LOCATION -- LAT 40 48 02, LONG 074 21 34, MORRIS COUNTY, AT BRIDGE ON STATE ROUTE 10, 0.6 MI (1.0 KM) SOUTHEAST OF HANOVER, 3.5 MI (5.6 KM) SOUTHEAST OF WHIPPANY, AND 4.8 MI (7.7 KM) ABOVE ROCKAWAY RIVER.
 DRAINAGE AREA -- 128 SQ-MI (332 SQ-KM)
 TRIBUTARY TO -- NEWARK BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379500, 01380500 AND 01381500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 15 (0.42) | 6.0 (0.17) |

01379630 RUSSIA BROOK TRIBUTARY AT MILTON, NJ

LOCATION -- LAT 41 01 09, LONG 074 32 17, MORRIS COUNTY, ON LEFT BANK 500 FT (150 M) UPSTREAM FROM CONFLUENCE WITH RUSSIA BROOK, 0.2 MI (0.3 KM) SOUTHWEST OF MILTON, AND 1.4 MI (2.2 KM) UPSTREAM FROM LAKE SWANNANOA.
 DRAINAGE AREA -- 2.51 SQ-MI (6.50 SQ-KM)
 TRIBUTARY TO -- RUSSIA BROOK
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01381500 AND 01386000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1968-71
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.1 (0.00) |

01379700 ROCKAWAY RIVER AT BERKSHIRE VALLEY, NJ

LOCATION -- LAT 40 55 51, LONG 074 35 42, MORRIS COUNTY, AT BRIDGE ON BERKSHIRE VALLEY ROAD IN BERKSHIRE VALLEY, 2.7 MI (4.3 KM) ABOVE STEPHENS BROOK, AND 3.8 MI (6.1 KM) NORTHWEST OF DOVER.
 DRAINAGE AREA -- 24.4 SQ-MI (63.2 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01379500, 01380500 AND 01381500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1960-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 7.8 (0.22) | 3.6 (0.10) |

01379750 ROCKAWAY RIVER AT DOVER, NJ

LOCATION -- LAT 40 54 12, LONG 074 34 36, MORRIS COUNTY, 500 FT (150 M) DOWNSTREAM FROM MAIN STREET, AT CARPENTER PLANT, 0.5 MI (0.8 KM) UPSTREAM FROM GREEN POND BROOK, AND 1.4 MI (2.3 KM) NORTHWEST OF DOVER.
 DRAINAGE AREA -- 30.8 SQ-MI (79.8 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01379500, 01380500 AND 01381500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-66
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 8.9 (0.25) | 4.1 (0.12) |

01380050 HIBERNIA BROOK AT OUTLET OF LAKE TELEMAR, NJ

LOCATION -- LAT 40 57 32, LONG 074 30 06, MORRIS COUNTY, AT BRIDGE AT OUTLET OF LAKE TELEMAR, 1.0 MI (1.6 KM) NORTH OF HIBERNIA, AND 3.2 MI (5.1 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 2.53 SQ-MI (6.55 SQ-KM)
 TRIBUTARY TO -- BEAVER BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01380500 AND 01381500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01380300 STONY BROOK NEAR ROCKAWAY VALLEY, NJ

LOCATION -- LAT 40 56 25, LONG 074 25 39, MORRIS COUNTY, AT BRIDGE ON ROCKAWAY VALLEY ROAD, 1.2 MI (1.9 KM) NORTHEAST OF ROCKAWAY VALLEY, 1.3 MI (2.1 KM) UPSTREAM FROM MOUTH, AND 2.8 MI (4.5 KM) NORTHWEST OF BOONTON.
 DRAINAGE AREA -- 8.43 SQ-MI (21.83 SQ-KM)
 TRIBUTARY TO -- ROCKAWAY RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01381500 AND 01388500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1963-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.4 (0.01) | 0.1 (0.00) |

01380500 ROCKAWAY RIVER ABOVE RESERVOIR, AT BOONTON, NJ

LOCATION -- LAT 40 54 04, LONG 074 24 40, MORRIS COUNTY, ON RIGHT BANK AT MORRIS AVENUE IN BOONTON, 1.8 MI (2.9 KM) UPSTREAM FROM DAM ON BOONTON RESERVOIR.
 DRAINAGE AREA -- 116 SQ-MI (300 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 219 CU FT/S (6.20 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 2770 CU FT/S (78.4 CU M/S)
 MINIMUM 10 CU FT/S (0.28 CU M/S)
 REMARKS -- REGULATION OCCASIONALLY AUGMENTS LOW FLOW. DIVERSION SIGNIFICANT AT LOW FLOW ONLY.

DURATION TABLE OF DAILY FLOW -- PERIOD 1938-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 918 | 665 | 495 | 346 | 259 | 199 | 154 | 119 | 89.9 | 63.7 | 41.0 | 29.0 | 20.5 | 17.3 | 15.3 |
| CU M/S | 26.0 | 18.8 | 14.0 | 9.80 | 7.33 | 5.64 | 4.36 | 3.37 | 2.55 | 1.80 | 1.16 | 0.821 | 0.581 | 0.490 | 0.433 |

LOW-FLOW FREQUENCY -- PERIOD 1939-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 28 (0.79) | 19 (0.54) | 15 (0.42) | 12 (0.34) |
| 7 | 30 (0.84) | 20 (0.57) | 16 (0.45) | 13 (0.37) |
| 30 | 41 (1.2) | 25 (0.71) | 20 (0.57) | 16 (0.45) |
| 90 | 64 (1.8) | 37 (1.0) | 28 (0.79) | 22 (0.62) |

PASSAIC RIVER BASIN

01381000 ROCKAWAY RIVER BELOW RESERVOIR, AT BOONTON, NJ

LOCATION -- LAT 40 53 47, LONG 074 23 36, MORRIS COUNTY, ON RIGHT BANK 2,000 FT (600 M) DOWNSTREAM FROM BOONTON RESERVOIR DAM AT BOONTON.
 DRAINAGE AREA -- 119 SQ-MI (308 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 135 CU FT/S (3.82 CU M/S), ADJUSTED FOR SEWAGE EFFLUENT.
 DAILY DISCHARGE EXTREMES -- MAXIMUM 2570 CU FT/S (72.8 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- FLOW AFFECTED BY REGULATION AND DIVERSION.

DURATION TABLE OF DAILY FLOW -- PERIOD 1961-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 700 | 477 | 340 | 200 | 122 | 64.1 | 29.0 | 11.7 | 6.40 | 0.834 | 0.404 | 0.308 | 0.238 | 0.214 | 0.202 |
| CU M/S | 19.8 | 13.5 | 9.63 | 5.66 | 3.46 | 1.82 | 0.821 | 0.331 | 0.181 | 0.024 | 0.011 | 0.009 | 0.006 | 0.006 | 0.006 |

LOW-FLOW FREQUENCY -- PERIOD 1962-75
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.5 (0.04) | 0.1 (0.00) |

01381150 CROOKED BROOK NEAR BOONTON, NJ

LOCATION -- LAT 40 53 25, LONG 074 22 27, MORRIS COUNTY, AT BRIDGE ON HORSENECK ROAD, 0.1 MI (0.2 KM) UPSTREAM FROM MOUTH, AND 1.9 MI (3.1 KM) SOUTHEAST OF BOONTON.
 DRAINAGE AREA -- 7.86 SQ-MI (20.36 SQ-KM)
 TRIBUTARY TO -- ROCKAWAY RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01380500 AND 01381500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-66
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.3 (0.09) | 2.0 (0.06) |

01381200 ROCKAWAY RIVER AT PINE BROOK, NJ

LOCATION -- LAT 40 51 29, LONG 074 20 53, MORRIS COUNTY, AT BRIDGE ON U.S. ROUTE 46, 0.9 MI (1.4 KM) WEST OF PINE BROOK, AND 1.1 MI (1.8 KM) ABOVE WHIPPANY RIVER.
 DRAINAGE AREA -- 136 SQ-MI (352 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379500, 01380500 AND 01381500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1963-70, 72-73
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 11 (0.31) | 5.4 (0.15) |

01381400 WHIPPANY RIVER NEAR MORRISTOWN, NJ

LOCATION -- LAT 40 48 44, LONG 074 30 44, MORRIS COUNTY, AT BRIDGE ON SUSSEX AVENUE, 1.9 MI (3.1 KM) NORTHEAST OF MORRISTOWN, 2.7 MI (4.3 KM) UPSTREAM FROM LAKE POCAHANTAS DAM, AND 4.8 MI (7.7 KM) UPSTREAM FROM GAGING STATION ON WHIPPANY RIVER AT MORRISTOWN.
 DRAINAGE AREA -- 14.0 SQ-MI (36.3 SQ-KM)
 TRIBUTARY TO -- ROCKAWAY RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01380500 AND 01381500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1964-72
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.4 (0.12) | 2.2 (0.06) |

01381470 WHIPPANY RIVER TRIBUTARY NO. 2 AT GREYSTONE PARK STATE HOSPITAL, NJ

LOCATION -- LAT 40 50 13, LONG 074 30 08, MORRIS COUNTY, 0.5 MI (0.8 KM) ABOVE GRANISS AVENUE AT GREYSTONE PARK STATE HOSPITAL, AND 0.8 MI (1.3 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 1.39 SQ-MI (3.60 SQ-KM)
 TRIBUTARY TO -- WHIPPANY RIVER TRIBUTARY (NO.1)
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01380500 AND 01381500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1967-73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.7 (0.02) | 0.4 (0.01) |

01381490 WHIPPANY RIVER TRIBUTARY (NO. 1) AT MORRIS PLAINS, NJ

LOCATION -- LAT 40 48 50, LONG 074 29 38, MORRIS COUNTY, AT BRIDGE ON LAKE ROAD, 0.1 MI (0.2 KM) UPSTREAM FROM MOUTH, AND 0.8 MI (1.3 KM) SOUTH OF MORRIS PLAINS.
 DRAINAGE AREA -- 7.77 SQ-MI (20.12 SQ-KM)
 TRIBUTARY TO -- WHIPPANY RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01380500 AND 01381500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.4 (0.12) | 2.9 (0.08) |

01381500 WHIPPANY RIVER AT MORRISTOWN, NJ

LOCATION -- LAT 40 48 21, LONG 074 27 22, MORRIS COUNTY, ON LEFT BANK AT MORRISTOWN SEWAGE-DISPOSAL PLANT, 0.8 MI (1.3 KM) DOWNSTREAM FROM MORRISTOWN, AND 9.0 MI (14.5 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 29.4 SQ-MI (76.1 SQ-KM)
 TRIBUTARY TO -- ROCKAWAY RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 50.9 CU FT/S (1.44 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1510 CU FT/S (42.8 CU M/S)
 MINIMUM 4.2 CU FT/S (0.12 CU M/S)
 REMARKS -- OCCASIONAL REGULATION; USUALLY NOT SIGNIFICANT.

DURATION TABLE OF DAILY FLOW -- PERIOD 1922-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 215 | 144 | 101 | 69.2 | 53.5 | 43.3 | 35.2 | 28.6 | 23.1 | 18.3 | 14.1 | 11.6 | 9.45 | 8.30 | 7.22 |
| CU M/S | 6.09 | 4.08 | 2.86 | 1.96 | 1.52 | 1.23 | 0.997 | 0.810 | 0.654 | 0.518 | 0.399 | 0.329 | 0.268 | 0.235 | 0.204 |

LOW-FLOW FREQUENCY -- PERIOD 1923-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|------------|------------|------------|
| 3 | 12 (0.34) | 8.7 (0.25) | 7.3 (0.21) | 6.2 (0.18) |
| 7 | 13 (0.37) | 9.4 (0.27) | 7.9 (0.22) | 6.8 (0.19) |
| 30 | 16 (0.45) | 12 (0.34) | 9.8 (0.28) | 8.5 (0.24) |
| 90 | 21 (0.59) | 15 (0.42) | 12 (0.34) | 10 (0.28) |

01381600 WHIPPANY RIVER NEAR WHIPPANY, NJ

LOCATION -- LAT 40 48 46, LONG 074 23 38, MORRIS COUNTY, AT BRIDGE ON STATE ROUTE 10, 0.2 MI (0.3 KM) BELOW BLACK BROOK, AND 1.5 MI (2.4 KM) SOUTHEAST OF WHIPPANY.
 DRAINAGE AREA -- 48.5 SQ-MI (125.6 SQ-KM)
 TRIBUTARY TO -- ROCKAWAY RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01380500 AND 01381500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-66, 73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 22 (0.62) | 14 (0.40) |

PASSAIC RIVER BASIN

01381700 TROY BROOK AT TROY HILLS, NJ

LOCATION -- LAT 40 51 15, LONG 074 23 27, MORRIS COUNTY, AT BRIDGE ON BEVERWYCK ROAD IN TROY HILLS, 1.0 MI (1.6 KM) UPSTREAM FROM WEST BROOK, AND 2.4 MI (3.9 KM) EAST OF PARSIPPANY.
 DRAINAGE AREA -- 10.1 SQ-MI (26.2 SQ-KM)
 TRIBUTARY TO -- WHIPPANY RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01380500 AND 01381500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1961-66, 72-73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 5.0 (0.14) | 3.4 (0.10) |

01381750 WEST BROOK AT TROY HILLS, NJ

LOCATION -- LAT 40 50 36, LONG 074 23 37, MORRIS COUNTY, AT BRIDGE ON BEVERWYCK ROAD, 0.7 MI (1.1 KM) SOUTH OF TROY HILLS, 0.8 MI (1.3 KM) UPSTREAM FROM MOUTH, AND 1.8 MI (2.9 KM) NORTHEAST OF WHIPPANY.
 DRAINAGE AREA -- 1.32 SQ-MI (3.42 SQ-KM)
 TRIBUTARY TO -- TROY BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01380500, 01381500 AND 01388500. CORRELATIONS RATED FAIR, REGULATION SUSPECTED.

LOW-FLOW FREQUENCY -- PERIOD 1961-66
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.6 (0.02) | 0.4 (0.01) |

01381800 WHIPPANY RIVER NEAR PINE BROOK, NJ

LOCATION -- LAT 40 50 42, LONG 074 20 51, MORRIS COUNTY, AT BRIDGE ON EDWARDS ROAD, 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH, AND 1.3 MI (2.1 KM) SOUTHWEST OF PINE BROOK.
 DRAINAGE AREA -- 68.5 SQ-MI (177.4 SQ-KM)
 TRIBUTARY TO -- ROCKAWAY RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01380500 AND 01381500. CORRELATIONS RATED FAIR, POSSIBLY AFFECTED BY SEWAGE EFFLUENT.

LOW-FLOW FREQUENCY -- PERIOD 1963-68, 73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 29 (0.82) | 21 (0.59) |

01381900 PASSAIC RIVER AT PINE BROOK, NJ

LOCATION -- LAT 40 51 45, LONG 074 19 18, MORRIS COUNTY, AT BRIDGE ON U.S. ROUTE 46, 0.5 MI (0.8 KM) EAST OF PINE BROOK, AND 1.3 MI (2.1 KM) DOWNSTREAM FROM ROCKAWAY RIVER.
 DRAINAGE AREA -- 349 SQ-MI (904 SQ-KM)
 TRIBUTARY TO -- NEWARK BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379500, 01380500 AND 01381500. CORRELATIONS RATED FAIR, POSSIBLY AFFECTED BY SEWAGE EFFLUENT.

LOW-FLOW FREQUENCY -- PERIOD 1963-69, 73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|----------|----------|
| 7 | 68 (1.9) | 36 (1.0) |

01382000 PASSAIC RIVER AT TWO BRIDGES, NJ

LOCATION -- LAT 40 53 50, LONG 074 16 23, ESSEX COUNTY, AT BRIDGE ON TWO BRIDGES ROAD, JUST ABOVE CONFLUENCE WITH POMPTON RIVER, 0.3 MI (0.5 KM) NORTHEAST OF TWO BRIDGES, AND 2.6 MI (4.2 KM) NORTHWEST OF LITTLE FALLS.
 DRAINAGE AREA -- 361 SQ-MI (935 SQ-KM)
 TRIBUTARY TO -- NEWARK BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379500, 01380500 AND 01388500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1963-68
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|----------|----------|
| 7 | 71 (2.0) | 36 (1.0) |

01382050 PEQUANNOCK RIVER NEAR STOCKHOLM, NJ

LOCATION -- LAT 41 06 55, LONG 074 30 50, SUSSEX COUNTY, AT BRIDGE ON STATE ROUTE 515, 1.6 MI (2.6 KM) ABOVE PACOCK BROOK, AND 1.8 MI (2.9 KM) NORTH OF STOCKHOLM.
 DRAINAGE AREA -- 5.39 SQ-MI (13.96 SQ-KM)
 TRIBUTARY TO -- POMPTON RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01380500 AND 01386000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01382360 KANOUSE BROOK AT NEWFOUNDLAND, NJ

LOCATION -- LAT 41 02 50, LONG 074 25 48, PASSAIC COUNTY, AT BRIDGE 0.3 MI (0.5 KM) EAST OF NEWFOUNDLAND, AND 0.6 MI (1.0 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 3.87 SQ-MI (10.02 SQ-KM)
 TRIBUTARY TO -- PEQUANNOCK RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01381500 AND 01388500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1963-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.5 (0.01) | 0.2 (0.01) |

01382450 MACOPIN RIVER AT MACOPIN RESERVOIR, NJ

LOCATION -- LAT 41 01 33, LONG 074 24 31, PASSAIC COUNTY, AT BRIDGE ON NORTHBOUND LANE OF STATE ROUTE 23, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH, 0.6 MI (1.0 KM) UPSTREAM FROM MACOPIN INTAKE DAM OF NEWARK WATER WORKS, AND 3.5 MI (5.6 KM) NORTHWEST OF BUTLER.
 DRAINAGE AREA -- 5.25 SQ-MI (13.60 SQ-KM)
 TRIBUTARY TO -- PEQUANNOCK RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATED BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01386000 AND 01388500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1970-73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.3 (0.01) | 0.1 (0.00) |

01382500 PEQUANNOCK RIVER AT MACOPIN INTAKE DAM, NJ

LOCATION -- LAT 41 01 00, LONG 074 23 47, MORRIS COUNTY, ON LEFT BANK AT MACOPIN INTAKE DAM OF NEWARK WATERWORKS, 0.4 MI (0.6 KM) DOWNSTREAM FROM MACOPIN RIVER, AND 3.0 MI (4.8 KM) NORTHWEST OF BUTLER.
 DRAINAGE AREA -- 63.7 SQ-MI (165.0 SQ-KM)
 TRIBUTARY TO -- POMPTON RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 52.2 CU FT/S (1.48 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1620 CU FT/S (45.9 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- FLOW AFFECTED BY REGULATION AND DIVERSIONS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1961-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | NO FLOW ABOUT |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|---------------|
| CU FT/S | 355 | 217 | 109 | 35.8 | 18.8 | 10.6 | 5.21 | 2.86 | 1.10 | 23% OF DAYS |
| CU M/S | 10.1 | 6.15 | 3.09 | 1.01 | 0.532 | 0.300 | 0.148 | 0.081 | 0.031 | IN PERIOD. |

LOW-FLOW FREQUENCY -- PERIOD 1962-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01382870 BELCHER CREEK AT STOWAWAY ROAD, AT WEST MILFORD, NJ

LOCATION -- LAT 41 07 27, LONG 074 22 48, PASSAIC COUNTY, AT BRIDGE ON STOWAWAY ROAD IN WEST MILFORD, AT ENTRANCE TO PINECLIFF LAKE, AND 2.8 MI (4.5 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 2.44 SQ-MI (6.32 SQ-KM)
 TRIBUTARY TO -- GREENWOOD LAKE
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01386000 AND 01387500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.4 (0.04) | 0.9 (0.03) |

01382880 BELCHER CREEK TRIBUTARY AT WEST MILFORD, NJ

LOCATION -- LAT 41 08 06, LONG 074 22 34, PASSAIC COUNTY, AT BRIDGE ON BEARFORT ROAD IN WEST MILFORD, 150 FT (50 M) UPSTREAM FROM MOUTH, AND 3.9 MI (6.3 KM) WEST OF HEWITT.
 DRAINAGE AREA -- 0.61 SQ-MI (1.58 SQ-KM)
 TRIBUTARY TO -- BELCHER CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01386000 AND 01387500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01382890 BELCHER CREEK AT WEST MILFORD, NJ

LOCATION -- LAT 41 08 15, LONG 074 22 04, PASSAIC COUNTY, AT BRIDGE ON UNION VALLEY ROAD, 150 FT (50 M) DOWNSTREAM FROM PINECLIFF LAKE DAM, 0.4 MI (0.6 KM) NORTHEAST OF WEST MILFORD, AND 1.6 MI (2.6 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 7.27 SQ-MI (18.83 SQ-KM)
 TRIBUTARY TO -- GREENWOOD LAKE
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01386000 AND 01387500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.5 (0.07) | 1.7 (0.05) |

01382910 MORSETOWN BROOK AT WEST MILFORD, NJ

LOCATION -- LAT 41 08 13, LONG 074 21 18, PASSAIC COUNTY, AT BRIDGE ON LINCOLN AVENUE, 0.4 MI (0.6 KM) UPSTREAM FROM MOUTH, AND 0.9 MI (1.4 KM) NORTHEAST OF WEST MILFORD.
 DRAINAGE AREA -- 1.31 SQ-MI (3.39 SQ-KM)
 TRIBUTARY TO -- BELCHER CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01386000 AND 01387500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01382960 GREEN BROOK NEAR WEST MILFORD, NJ

LOCATION -- LAT 41 09 09, LONG 074 21 34, PASSAIC COUNTY, AT BRIDGE ON UNION VALLEY ROAD, 0.4 MI (0.6 KM) UPSTREAM FROM MOUTH, AND 1.6 MI (2.6 KM) NORTH OF WEST MILFORD.
 DRAINAGE AREA -- 1.47 SQ-MI (3.81 SQ-KM)
 TRIBUTARY TO -- BELCHER CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- FLOW INCLUDES DIVERSIONS FROM UPPER GREENWOOD LAKE. LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01386000 AND 01387500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01382990 COOLEY BROOK NEAR WEST MILFORD, NJ

LOCATION -- LAT 41 09 16, LONG 074 21 27, PASSAIC COUNTY, AT BRIDGE ON UNION VALLEY ROAD, 0.1 MI (0.2 KM) UPSTREAM FROM MOUTH, AND 1.8 MI (2.9 KM) NORTH OF WEST MILFORD.
 DRAINAGE AREA -- 1.34 SQ-MI (3.47 SQ-KM)
 TRIBUTARY TO -- GREEN BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01386000 AND 01387500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.1 (0.00) |

01383500 WANAQUE RIVER AT AWOSTING, NJ

LOCATION -- LAT 41 09 31, LONG 074 20 00, PASSAIC COUNTY, ON RIGHT BANK 700 FT (210 M) DOWNSTREAM FROM DAM AT OUTLET OF GREENWOOD LAKE AT AWOSTING.
 DRAINAGE AREA -- 27.1 SQ-MI (70.2 SQ-KM)
 TRIBUTARY TO -- PEQUANNOCK RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 52.4 CU FT/S (1.48 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 986 CU FT/S (27.9 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- FLOW REGULATED BY GREENWOOD LAKE.

DURATION TABLE OF DAILY FLOW -- PERIOD 1961-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 247 | 172 | 127 | 82.1 | 57.0 | 43.0 | 32.2 | 22.2 | 12.5 | 6.08 | 4.60 | 3.71 | 2.27 | 0.599 | 0.099 |
| CU M/S | 7.00 | 4.87 | 3.60 | 2.33 | 1.61 | 1.22 | 0.912 | 0.629 | 0.354 | 0.172 | 0.130 | 0.105 | 0.064 | 0.017 | 0.003 |

LOW-FLOW FREQUENCY -- PERIOD 1962-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.0 (0.08) | 1.1 (0.03) |

01384000 WANAQUE RIVER AT MONKS, NJ

LOCATION -- LAT 41 07 14, LONG 074 17 41, PASSAIC COUNTY, ON LEFT BANK JUST UPSTREAM FROM WANAQUE RESERVOIR, AND 0.3 MI (0.5 KM) DOWNSTREAM FROM HIGHWAY BRIDGE AT MONKS.
 DRAINAGE AREA -- 40.4 SQ-MI (104.6 SQ-KM)
 TRIBUTARY TO -- PEQUANNOCK RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 80.9 CU FT/S (2.29 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 2900 CU FT/S (82.1 CU M/S)
 MINIMUM 1.2 CU FT/S (0.03 CU M/S)
 REMARKS -- REGULATION REDUCES FLOOD PEAKS AND IS VERY SIGNIFICANT AT LOW AND MEDIUM FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1935-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 381 | 270 | 190 | 123 | 89.2 | 66.7 | 49.2 | 34.4 | 20.1 | 10.3 | 6.69 | 5.39 | 4.34 | 3.69 | 3.11 |
| CU M/S | 10.8 | 7.65 | 5.38 | 3.48 | 2.53 | 1.89 | 1.39 | 0.974 | 0.569 | 0.292 | 0.189 | 0.153 | 0.123 | 0.105 | 0.088 |

LOW-FLOW FREQUENCY -- PERIOD 1936-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 5.1 (0.14) | 3.2 (0.09) | 2.5 (0.07) | 2.1 (0.06) |
| 7 | 5.3 (0.15) | 3.6 (0.10) | 3.0 (0.08) | 2.6 (0.07) |
| 30 | 6.8 (0.19) | 4.8 (0.14) | 4.1 (0.12) | 3.7 (0.10) |
| 90 | 12 (0.34) | 6.5 (0.18) | 4.8 (0.14) | 3.8 (0.11) |

01384500 RINGWOOD CREEK NEAR WANAQUE, NJ

LOCATION -- LAT 41 07 36, LONG 074 15 52, PASSAIC COUNTY, ON RIGHT BANK 500 FT (150 M) UPSTREAM FROM WANAQUE RESERVOIR, 0.7 MI (1.1 KM) DOWNSTREAM FROM RINGWOOD MILL POND DAM, AND 6.5 MI (10.5 KM) NORTH OF WANAQUE.
 DRAINAGE AREA -- 19.1 SQ-MI (49.5 SQ-KM)
 TRIBUTARY TO -- WANAQUE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 33.1 CU FT/S (0.937 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 756 CU FT/S (21.4 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- SLIGHT REGULATION; PROBABLY NOT SIGNIFICANT.

DURATION TABLE OF DAILY FLOW -- PERIOD 1935-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 148 | 106 | 78 | 51.8 | 38.0 | 28.1 | 21.0 | 14.7 | 9.39 | 4.92 | 2.15 | 1.35 | 0.914 | 0.633 | 0.399 |
| CU M/S | 4.19 | 3.00 | 2.21 | 1.47 | 1.08 | 0.796 | 0.595 | 0.416 | 0.266 | 0.139 | 0.061 | 0.038 | 0.026 | 0.018 | 0.011 |

LOW-FLOW FREQUENCY -- PERIOD 1936-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 1.3 (0.04) | 0.4 (0.01) | 0.2 (0.01) | 0.1 (0.00) |
| 7 | 1.4 (0.04) | 0.6 (0.02) | 0.4 (0.01) | 0.2 (0.01) |
| 30 | 2.3 (0.07) | 1.0 (0.03) | 0.7 (0.02) | 0.5 (0.01) |
| 90 | 4.3 (0.12) | 1.9 (0.05) | 1.3 (0.04) | 0.9 (0.03) |

01385000 CUPSAW BROOK NEAR WANAQUE, NJ

LOCATION -- LAT 41 06 32, LONG 074 15 16, PASSAIC COUNTY, ON LEFT BANK JUST UPSTREAM FROM WANAQUE RESERVOIR, 0.3 MI (0.5 KM) DOWNSTREAM FROM CUPSAW LAKE, AND 5.0 MI (8.0 KM) NORTH OF WANAQUE.
 DRAINAGE AREA -- 4.38 SQ-MI (11.34 SQ-KM)
 TRIBUTARY TO -- WANAQUE RESERVOIR
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 7.92 CU FT/S (0.224 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 250 CU FT/S (7.08 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- REGULATION REDUCES FLOOD PEAKS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1936-58
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 45.2 | 29.0 | 20.1 | 12.7 | 8.80 | 5.85 | 3.68 | 2.03 | 0.937 | 0.485 | 0.282 | 0.190 | 0.095 | 0.048 | 0.024 |
| CU M/S | 1.28 | 0.821 | 0.569 | 0.360 | 0.249 | 0.166 | 0.104 | 0.057 | 0.027 | 0.014 | 0.008 | 0.005 | 0.003 | 0.001 | 0.001 |

LOW-FLOW FREQUENCY -- PERIOD 1936-58
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 0.1 (0.00) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 7 | 0.2 (0.01) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 30 | 0.4 (0.01) | 0.1 (0.00) | 0.1 (0.00) | 0.0 (0.00) |
| 90 | 0.9 (0.03) | 0.3 (0.01) | 0.2 (0.01) | 0.1 (0.00) |

01386000 WEST BROOK NEAR WANAQUE, NJ

LOCATION -- LAT 41 04 16, LONG 074 18 45, PASSAIC COUNTY, ON RIGHT BANK JUST UPSTREAM FROM WANAQUE RESERVOIR, 0.3 MI (0.5 KM) DOWNSTREAM FROM BURNT MEADOW BROOK, AND 2.5 MI (4.0 KM) NORTHWEST OF WANAQUE.
 DRAINAGE AREA -- 11.8 SQ-MI (30.6 SQ-KM)
 TRIBUTARY TO -- WANAQUE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 23.9 CU FT/S (0.676 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 662 CU FT/S (18.7 CU M/S)
 MINIMUM 0.2 CU FT/S (0.01 CU M/S)
 REMARKS -- SLIGHT REGULATION, PROBABLY NOT SIGNIFICANT.

DURATION TABLE OF DAILY FLOW -- PERIOD 1935-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 120 | 79.3 | 54.2 | 34.8 | 25.1 | 18.8 | 14.1 | 9.82 | 6.27 | 3.70 | 2.08 | 1.52 | 1.06 | 0.871 | 0.729 |
| CU M/S | 3.40 | 2.25 | 1.53 | 0.986 | 0.711 | 0.532 | 0.399 | 0.278 | 0.178 | 0.105 | 0.059 | 0.043 | 0.030 | 0.025 | 0.021 |

LOW-FLOW FREQUENCY -- PERIOD 1936-75
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 1.3 (0.04) | 0.8 (0.02) | 0.6 (0.02) | 0.4 (0.01) |
| 7 | 1.5 (0.04) | 0.8 (0.02) | 0.6 (0.02) | 0.5 (0.01) |
| 30 | 2.1 (0.06) | 1.2 (0.03) | 0.9 (0.03) | 0.8 (0.02) |
| 90 | 3.8 (0.11) | 2.0 (0.06) | 1.4 (0.04) | 1.1 (0.03) |

PASSAIC RIVER BASIN

01386500 BLUE MINE BROOK NEAR WANAQUE, NJ

LOCATION -- LAT 41 03 04, LONG 074 19 20, PASSAIC COUNTY, ON LEFT BANK 0.2 (0.3 KM) UPSTREAM FROM WANAQUE RESERVOIR, AND 1.8 MI (2.9 KM) NORTHWEST OF WANAQUE.

DRAINAGE AREA -- 1.71 SQ-MI (4.43 SQ-KM)

TRIBUTARY TO -- WANAQUE RESERVOIR

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 2.30 CU FT/S (0.065 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 121 CU FT/S (3.43 CU M/S)
MINIMUM 0.0 CU FT/S (0.00 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1935-58

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | NO FLOW ABOUT |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| CU FT/S | 13.3 | 7.86 | 5.12 | 3.19 | 2.21 | 1.58 | 1.17 | 0.838 | 0.458 | 0.235 | 0.114 | 9% OF DAYS |
| CU M/S | 0.377 | 0.223 | 0.145 | 0.090 | 0.063 | 0.045 | 0.033 | 0.024 | 0.013 | 0.007 | 0.003 | IN PERIOD. |

LOW-FLOW FREQUENCY -- PERIOD 1936-58

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 7 | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 30 | 0.1 (0.00) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 90 | 0.2 (0.01) | 0.1 (0.00) | 0.0 (0.00) | 0.0 (0.00) |

01387000 WANAQUE RIVER AT WANAQUE, NJ

LOCATION -- LAT 41 02 33, LONG 074 17 36, PASSAIC COUNTY, ON LEFT BANK, 750 FT (230 M) DOWNSTREAM FROM RAYMOND DAM IN WANAQUE, AND 50 FT (15 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 511.

DRAINAGE AREA -- 90.4 SQ-MI (234.1 SQ-KM)

TRIBUTARY TO -- PEQUANNOCK RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 78.5 CU FT/S (2.22 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 3430 CU FT/S (97.1 CU M/S)
MINIMUM 0.51 CU FT/S (0.014 CU M/S)

REMARKS -- REGULATION SIGNIFICANT AT ALL FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1961-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 450 | 237 | 105 | 24.3 | 19.6 | 18.8 | 18.0 | 17.4 | 16.7 | 16.1 | 2.77 | 1.89 | 1.58 | 1.48 | 1.43 |
| CU M/S | 12.7 | 6.71 | 2.97 | 0.688 | 0.555 | 0.532 | 0.510 | 0.493 | 0.473 | 0.456 | 0.078 | 0.054 | 0.045 | 0.042 | 0.040 |

LOW-FLOW FREQUENCY -- PERIOD 1962-75

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 12 (0.34) | 2.3 (0.07) |

01387450 MAHWAH RIVER NEAR SUFFERN, NY

LOCATION -- LAT 41 08 27, LONG 074 07 01, ROCKLAND COUNTY, ON RIGHT BANK AT UPSTREAM SIDE OF BRIDGE ON U.S. HIGHWAY 202, 2.5 MI (4.0 KM) NORTHWEST OF SUFFERN, AND 4.8 MI (7.7 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 12.3 SQ-MI (31.9 SQ-KM)
 TRIBUTARY TO -- RAMAPO RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 24.0 CU FT/S (0.679 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 623 CU FT/S (17.6 CU M/S)
 MINIMUM 0.1 CU FT/S (0.00 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1959-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 116 | 75.1 | 54.2 | 34.2 | 25.1 | 19.8 | 15.8 | 12.0 | 8.16 | 4.59 | 2.45 | 1.77 | 1.29 | 0.985 | 0.779 |
| CU M/S | 3.29 | 2.13 | 1.53 | 0.969 | 0.711 | 0.561 | 0.447 | 0.340 | 0.231 | 0.130 | 0.069 | 0.050 | 0.037 | 0.028 | 0.022 |

LOW-FLOW FREQUENCY -- PERIOD 1960-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 1.3 (0.04) | 0.8 (0.02) | 0.7 (0.02) | 0.6 (0.02) |
| 7 | 1.5 (0.04) | 1.0 (0.03) | 0.8 (0.02) | 0.7 (0.02) |
| 30 | 2.3 (0.07) | 1.4 (0.04) | 1.1 (0.03) | 1.0 (0.03) |
| 90 | 4.0 (0.11) | 2.4 (0.07) | 1.9 (0.05) | 1.6 (0.05) |

01387500 RAMAPO RIVER NEAR MAHWAH, NJ

LOCATION -- LAT 41 05 51, LONG 074 09 48, BERGEN COUNTY, ON LEFT BANK 350 FT (110 M) DOWNSTREAM FROM STATE HIGHWAY 17, 0.6 MI (1.0 KM) DOWNSTREAM FROM MAHWAH RIVER, AND 1.0 MI (1.6 KM) WEST OF MAHWAH.
 DRAINAGE AREA -- 118 SQ-MI (306 SQ-KM)
 TRIBUTARY TO -- POMPTON RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 228 CU FT/S (6.46 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 8290 CU FT/S (235 CU M/S)
 MINIMUM 8.0 CU FT/S (0.23 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1903-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 1100 | 734 | 508 | 333 | 241 | 183 | 140 | 102 | 72.9 | 48.8 | 29.7 | 22.2 | 16.8 | 14.2 | 12.4 |
| CU M/S | 31.2 | 20.8 | 14.4 | 9.43 | 6.83 | 5.18 | 3.96 | 2.89 | 2.06 | 1.38 | 0.841 | 0.629 | 0.476 | 0.402 | 0.351 |

LOW-FLOW FREQUENCY -- PERIOD 1904-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|------------|
| 3 | 20 (0.57) | 14 (0.40) | 11 (0.31) | 9.8 (0.28) |
| 7 | 22 (0.62) | 15 (0.42) | 13 (0.37) | 11 (0.31) |
| 30 | 30 (0.85) | 20 (0.57) | 16 (0.45) | 14 (0.40) |
| 90 | 47 (1.3) | 28 (0.79) | 22 (0.62) | 19 (0.54) |

01387520 STAG BROOK NEAR MAHWAH, NJ

LOCATION -- LAT 41 05 45, LONG 074 10 25, BERGEN COUNTY, AT BRIDGE 300 FT (90 M) UPSTREAM FROM MOUTH, AND 1.5 MI (2.4 KM) WEST OF MAHWAH.
 DRAINAGE AREA -- 1.35 SQ-MI (3.50 SQ-KM)
 TRIBUTARY TO -- RAMAPO RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01387500 AND 01391000.
 CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-70, 72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01387600 DARLINGTON BROOK AT DARLINGTON, NJ

LOCATION -- LAT 41 04 46, LONG 074 11 02, BERGEN COUNTY, AT BRIDGE ON VALLEY ROAD (U.S. ROUTE 202) AT DARLINGTON, 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH, AND 2.6 MI (4.2 KM) NORTHWEST OF RAMSEY.
 DRAINAGE AREA -- 3.57 SQ-MI (9.25 SQ-KM)
 TRIBUTARY TO -- RAMAPO RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01387500 AND 01391000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.4 (0.01) | 0.2 (0.01) |

01387670 RAMAPO RIVER NEAR DARLINGTON, NJ

LOCATION -- LAT 41 03 57, LONG 074 12 31, BERGEN COUNTY, AT BRIDGE ON BEAR SWAMP ROAD, 250 FT (75 M) UPSTREAM FROM BEAR SWAMP BROOK, 1.6 MI (2.6 KM) SOUTHWEST OF DARLINGTON, AND 3.0 MI (4.8 KM) NORTHWEST OF OAKLAND.
 DRAINAGE AREA -- 126 SQ-MI (326 SQ-KM)
 TRIBUTARY TO -- POMPTON RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01386000 AND 01387500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-66
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 15 (0.42) | 6.8 (0.19) |

01387700 BEAR SWAMP BROOK NEAR OAKLAND, NJ

LOCATION -- LAT 41 03 59, LONG 074 12 35, BERGEN COUNTY, AT BRIDGE, 0.1 MI (0.2 KM) UPSTREAM FROM MOUTH, AND 2.9 MI (4.7 KM) NORTHEAST OF OAKLAND.
 DRAINAGE AREA -- 3.25 SQ-MI (8.42 SQ-KM)
 TRIBUTARY TO -- RAMAPO RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01387500 AND 01391000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01387880 POND BROOK AT OAKLAND, NJ

LOCATION -- LAT 41 01 45, LONG 074 14 13, BERGEN COUNTY, AT BRIDGE ON U.S. ROUTE 202 IN OAKLAND, AND 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 7.52 SQ-MI (19.48 SQ-KM)
 TRIBUTARY TO -- RAMAPO RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01387500, 01388500 AND 01391000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.4 (0.07) | 1.4 (0.04) |

01387930 RAMAPO RIVER TRIBUTARY NO. 5 AT OAKLAND, NJ

LOCATION -- LAT 41 00 54, LONG 074 15 14, BERGEN COUNTY, AT BRIDGE ON U.S. ROUTE 202, 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH, AND 1.5 MI (2.4 KM) SOUTHWEST OF OAKLAND.
 DRAINAGE AREA -- 0.86 SQ-MI (2.23 SQ-KM)
 TRIBUTARY TO -- RAMAPO RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01387500, 01388500 AND 01391000. CORRELATIONS RATED POOR, REGULATION SUSPECTED.

LOW-FLOW FREQUENCY -- PERIOD 1963-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.4 (0.01) | 0.2 (0.01) |

01387950 RAMAPO RIVER TRIBUTARY NO. 6 AT POMPTON LAKES, NJ

LOCATION -- LAT 41 00 19, LONG 074 16 57, PASSAIC COUNTY, AT BRIDGE ON LAKESIDE AVENUE IN POMPTON LAKES, AND 300 FT (90 M) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 1.79 SQ-MI (4.64 SQ-KM)
 TRIBUTARY TO -- RAMAPO RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01387500 AND 01391000. CORRELATIONS RATED POOR, REGULATION SUSPECTED.

LOW-FLOW FREQUENCY -- PERIOD 1963-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.3 (0.01) | 0.2 (0.01) |

01387980 HAYCOCK BROOK AT POMPTON LAKES, NJ

LOCATION -- LAT 40 59 40, LONG 074 16 28, PASSAIC COUNTY, AT BRIDGE ON U.S. ROUTE 202 IN POMPTON LAKES, 150 FT (50 M) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 4.18 SQ-MI (10.83 SQ-KM)
 TRIBUTARY TO -- PINES LAKE
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01387500 AND 01388500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-64, 73-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.9 (0.03) | 0.6 (0.02) |

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ

LOCATION -- LAT 40 59 33, LONG 074 16 44, PASSAIC COUNTY, ON RIGHT END OF DAM AT PUMPING STATION IN POMPTON LAKES, AND 2.0 MILES (3.2 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 160 SQ-MI (414 SQ-KM)
 TRIBUTARY TO -- POMPTON RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 298 CU FT/S (8.44 CU M/S), ADJUSTED FOR DIVERSION.
 DAILY DISCHARGE EXTREMES -- MAXIMUM 9750 CU FT/S (276 CU M/S)
 MINIMUM 5.0 CU FT/S (0.14 CU M/S)
 REMARKS -- REGULATION REDUCES FLOOD PEAKS AND, PRIOR TO 1939, WAS SIGNIFICANT AT LOW FLOW. VERY SIGNIFICANT DIVERSION SINCE DECEMBER 1953, BUT NOT DURING SUMMER OR LOW-FLOW PERIODS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1939-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 1362 | 926 | 657 | 425 | 305 | 224 | 162 | 117 | 85.3 | 60.8 | 38.7 | 29.7 | 22.7 | 19.6 | 16.0 |
| CU M/S | 38.6 | 26.2 | 18.6 | 12.0 | 8.64 | 6.34 | 4.59 | 3.31 | 2.42 | 1.72 | 1.10 | 0.841 | 0.643 | 0.555 | 0.453 |

LOW-FLOW FREQUENCY -- PERIOD 1939-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 31 (0.88) | 19 (0.54) | 13 (0.37) | 10 (0.28) |
| 7 | 33 (0.93) | 20 (0.57) | 15 (0.42) | 12 (0.34) |
| 30 | 44 (1.2) | 26 (0.74) | 20 (0.57) | 16 (0.45) |
| 90 | 66 (1.9) | 38 (1.1) | 29 (0.82) | 23 (0.65) |

01388500 POMPTON RIVER AT POMPTON PLAINS, NJ

LOCATION -- LAT 40 58 09, LONG 074 16 56, PASSAIC COUNTY, 800 FT (240 M) BELOW CONFLUENCE OF PEQUANNOCK AND RAMAPO RIVERS, 100 FT (30 M) UPSTREAM FROM JACKSON AVENUE BRIDGE, AND 0.7 MI (1.1 KM) EAST OF POMPTON PLAINS.
 DRAINAGE AREA -- 355 SQ-MI (919 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 476 CU FT/S (13.5 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 28300 CU FT/S (801 CU M/S)
 MINIMUM 18 CU FT/S (0.51 CU M/S)
 REMARKS -- REGULATION REDUCES FLOOD PEAKS AND AUGMENTS LOW FLOW. DIVERSION VERY SIGNIFICANT AT ALL FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1904, 41-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 2430 | 1640 | 1090 | 669 | 466 | 342 | 251 | 185 | 144 | 112 | 78.2 | 63.1 | 48.0 | 36.7 | 25.3 |
| CU M/S | 68.8 | 46.4 | 30.9 | 18.9 | 13.2 | 9.69 | 7.11 | 5.24 | 4.08 | 3.17 | 2.21 | 1.79 | 1.36 | 1.04 | 0.716 |

LOW-FLOW FREQUENCY -- PERIOD 1904, 42-75

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|----------|----------|-----------|
| 3 | 66 (1.9) | 45 (1.3) | 36 (1.0) | 29 (0.82) |
| 7 | 70 (2.0) | 48 (1.4) | 39 (1.1) | 32 (0.91) |
| 30 | 86 (2.4) | 59 (1.7) | 48 (1.4) | 40 (1.1) |
| 90 | 120 (3.4) | 75 (2.1) | 60 (1.7) | 49 (1.4) |

01389000 POMPTON RIVER AT TWO BRIDGES, NJ

LOCATION -- LAT 40 53 52, LONG 074 16 22, ESSEX COUNTY, AT BRIDGE ON TWO BRIDGES ROAD, JUST UPSTREAM FROM MOUTH, 0.3 MI (0.5 KM) NORTHEAST OF TWO BRIDGES, AND 2.6 MI (4.2 KM) NORTHWEST OF LITTLE FALLS.
 DRAINAGE AREA -- 372 SQ-MI (963 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01387500 AND 01388500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-68

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|----------|----------|
| 7 | 67 (1.9) | 41 (1.2) |

01389100 SINGAC BROOK AT SINGAC, NJ

LOCATION -- LAT 40 53 37, LONG 074 15 57, PASSAIC COUNTY, AT BRIDGE ON FAIRFIELD ROAD, BETWEEN U.S. ROUTES 80 AND 46, 60 FT (20 M) UPSTREAM FROM MOUTH, 1.2 MI (1.9 KM) NORTHWEST OF SINGAC, AND 1.8 MI (2.9 KM) NORTHWEST OF LITTLE FALLS.
 DRAINAGE AREA -- 11.1 SQ-MI (28.7 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01388500 AND 01391000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1963-67

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 7.5 (0.21) | 5.1 (0.14) |

01389500 PASSAIC RIVER AT LITTLE FALLS, NJ

LOCATION -- LAT 40 53 05, LONG 074 13 35, PASSAIC COUNTY, ON LEFT BANK 0.6 MI (1.0 KM) DOWNSTREAM FROM BEATTIE'S DAM IN LITTLE FALLS, AND 1.0 MI (1.6 KM) UPSTREAM FROM PECKMAN RIVER.
 DRAINAGE AREA -- 762 SQ-MI (1974 SQ-KM)
 TRIBUTARY TO -- NEWARK BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 DISCHARGE -- 1163 CU FT/S (32.9 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 28000 CU FT/S (793 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- REGULATION REDUCES FLOOD PEAKS AND AUGMENTS LOW FLOW. DIVERSION SIGNIFICANT AT ALL FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1898-1975

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 5390 | 3910 | 2880 | 1930 | 1370 | 961 | 646 | 444 | 302 | 202 | 122 | 77.9 | 45.3 | 33.7 | 22.0 |
| CU M/S | 153 | 111 | 81.6 | 54.7 | 38.8 | 27.2 | 18.3 | 12.6 | 8.55 | 5.72 | 3.46 | 2.21 | 1.28 | 0.954 | 0.623 |

LOW-FLOW FREQUENCY -- PERIOD 1899-1975

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 70 (2.0) | 32 (0.91) | 19 (0.54) | 11 (0.31) |
| 7 | 86 (2.4) | 44 (1.2) | 30 (0.85) | 21 (0.59) |
| 30 | 130 (3.7) | 73 (2.1) | 53 (1.5) | 40 (1.1) |
| 90 | 210 (5.9) | 110 (3.1) | 83 (2.4) | 64 (1.8) |

01389600 PECKMAN RIVER AT WEST PATERSON, NJ

LOCATION -- LAT 40 53 32, LONG 074 12 43, PASSAIC COUNTY, AT BRIDGE ON MCBRIDE AVENUE, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH, 0.7 MI (1.1 KM) WEST OF WEST PATERSON, AND 3.2 MI (5.1 KM) SOUTHWEST OF PATERSON.
 DRAINAGE AREA -- 10.1 SQ-MI (26.2 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01381500 AND 01388500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1963-67

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 8.6 (0.24) | 6.6 (0.19) |

01389790 MOLLY ANN BROOK AT PATERSON, NJ

LOCATION -- LAT 40 54 52, LONG 074 11 26, PASSAIC COUNTY, AT BRIDGE ON TOTOWA AVENUE, 0.1 MI (0.2 KM) UPSTREAM FROM MOUTH, AND 1.8 MI (2.9 KM) WEST OF PATERSON.
 DRAINAGE AREA -- 7.73 SQ-MI (20.02 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- TWO LOWEST BASE FLOW MEASUREMENTS MADE DURING PERIOD 1963-72: 9/7/72, 0.06 CU FT/S (0.002 CU M/S); 4/11/72, 0.09 CU FT/S (0.003 CU M/S). NO USABLE CORRELATION FOUND.

01389850 GOFFLE BROOK AT HAWTHORNE, NJ

LOCATION -- LAT 40 56 20, LONG 074 09 48, PASSAIC COUNTY, AT BRIDGE ON WAGARAW ROAD, 0.1 MI (0.2 KM) UPSTREAM FROM MOUTH, 1.1 MI (1.8 KM) SOUTHWEST OF HAWTHORNE, AND 1.9 MI (3.1 KM) NORTH OF PATERSON.
 DRAINAGE AREA -- 8.77 SQ-MI (22.71 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01388500 AND 01391000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1963-67

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.3 (0.04) | 0.7 (0.02) |

01389905 FLEISCHER BROOK AT ELMWOOD PARK, NJ (FORMERLY AT EAST PATERSON)

LOCATION -- LAT 40 53 26, LONG 074 07 15, BERGEN COUNTY, ON MARTHA STREET IN ELMWOOD PARK, 0.1 MI (0.2 KM) UPSTREAM FROM SOUTHERN BOUNDARY, 0.2 MI (0.3 KM) SOUTH OF DOWNSTREAM INTERCHANGE 157 OF GARDEN STATE PARKWAY WITH U.S. HIGHWAY 46, AND 1.3 MI (2.1 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 1.78 SQ-MI (4.61 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01388500, 01391000 AND 01391500. CORRELATIONS RATED POOR, REGULATION SUSPECTED.

LOW-FLOW FREQUENCY -- PERIOD 1964-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.3 (0.01) | 0.2 (0.01) |

01390450 SADDLE RIVER AT UPPER SADDLE RIVER, NJ

LOCATION -- LAT 41 03 32, LONG 074 05 44, BERGEN COUNTY, ON BERGEN COUNTY ROUTE 96, AT CULVERT ON LAKE STREET IN UPPER SADDLE RIVER, 1.3 MI (2.1 KM) DOWNSTREAM FROM PINE BROOK AND 1.7 MI (2.7 KM) DOWNSTREAM FROM NEW YORK-NEW JERSEY STATE LINE.
 DRAINAGE AREA -- 10.9 SQ-MI (28.2 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01387500 AND 01390500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-72, 75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.3 (0.09) | 2.0 (0.06) |

01390500 SADDLE RIVER AT RIDGEWOOD, NJ

LOCATION -- LAT 40 59 05, LONG 074 05 30, BERGEN COUNTY, ON LEFT BANK 15 FT (5 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 17 IN RIDGEWOOD, AND 2.8 MI (4.5 KM) UPSTREAM FROM HOHOKUS BROOK.
 DRAINAGE AREA -- 21.6 SQ-MI (55.9 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 35.3 CU FT/S (1.00 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 722 CU FT/S (20.4 CU M/S)
 MINIMUM 0.2 CU FT/S (0.01 CU M/S)
 REMARKS -- DIVERSIONS FROM WELLS NEAR RIVER SIGNIFICANT AT LOW AND MEDIUM FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1955-74
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 157 | 99.6 | 70.1 | 48.4 | 37.6 | 30.2 | 24.7 | 20.1 | 16.0 | 11.7 | 7.87 | 5.77 | 4.21 | 3.34 | 2.60 |
| CU M/S | 4.45 | 2.82 | 1.99 | 1.37 | 1.06 | 0.855 | 0.700 | 0.570 | 0.453 | 0.331 | 0.223 | 0.163 | 0.119 | 0.095 | 0.074 |

LOW-FLOW FREQUENCY -- PERIOD 1956-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 5.1 (0.14) | 2.9 (0.08) | 2.0 (0.06) | 1.4 (0.04) |
| 7 | 5.7 (0.16) | 3.6 (0.10) | 2.7 (0.08) | 2.1 (0.06) |
| 30 | 7.9 (0.22) | 5.2 (0.15) | 4.1 (0.12) | 3.3 (0.09) |
| 90 | 12 (0.33) | 8.5 (0.24) | 7.0 (0.20) | 5.9 (0.16) |

01390700 HOHOKUS BROOK AT WYCKOFF, NJ

LOCATION -- LAT 41 01 25, LONG 074 10 05, BERGEN COUNTY, AT BRIDGE ON WYCKOFF AVENUE (BERGEN ROUTE 87), 1.0 MI (1.6 KM) NORTH OF WYCKOFF, AND 1.2 MI (1.9 KM) UPSTREAM FROM VALENTINE BROOK.
 DRAINAGE AREA -- 5.31 SQ-MI (13.75 SQ-KM)
 TRIBUTARY TO -- SADDLE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01390500 AND 01391000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.4 (0.07) | 1.4 (0.04) |

01390800 VALENTINE BROOK AT ALLENDALE, NJ

LOCATION -- LAT 41 01 53, LONG 074 09 10, BERGEN COUNTY, AT BRIDGE ON FOREST ROAD (BERGEN ROUTE 85), 0.4 MI (0.6 KM) UPSTREAM FROM MOUTH, 1.1 MI (1.8 KM) WEST OF ALLENDALE, AND 1.9 MI (3.1 KM) NORTHEAST OF WYCKOFF.

DRAINAGE AREA -- 2.48 SQ-MI (6.42 SQ-KM)

TRIBUTARY TO -- HOHOKUS BROOK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01386000, 01390500 AND 01391000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-67

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.7 (0.02) | 0.3 (0.01) |

01391000 HOHOKUS BROOK AT HOHOKUS, NJ

LOCATION -- LAT 40 59 52, LONG 074 06 48, BERGEN COUNTY, ON LEFT BANK 500 FT (150 M) UPSTREAM FROM MAPLE AVENUE BRIDGE IN HOHOKUS, AND 3.5 MI (5.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 16.4 SQ-MI (42.5 SQ-KM)

TRIBUTARY TO -- SADDLE RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 31.1 CU FT/S (0.880 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 1100 CU FT/S (31.1 CU M/S)
MINIMUM 2.5 CU FT/S (0.07 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1955-73

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 140 | 85.2 | 58.5 | 40.8 | 32.2 | 26.0 | 21.6 | 17.8 | 14.6 | 11.5 | 7.85 | 5.94 | 4.47 | 3.85 | 3.40 |
| CU M/S | 3.96 | 2.41 | 1.66 | 1.16 | 0.912 | 0.736 | 0.612 | 0.504 | 0.413 | 0.326 | 0.222 | 0.168 | 0.127 | 0.109 | 0.096 |

LOW-FLOW FREQUENCY -- PERIOD 1956-73

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 5.5 (0.16) | 3.9 (0.11) | 3.2 (0.09) | 2.7 (0.08) |
| 7 | 6.3 (0.18) | 4.4 (0.12) | 3.6 (0.10) | 3.0 (0.08) |
| 30 | 8.7 (0.25) | 5.7 (0.16) | 4.5 (0.13) | 3.7 (0.10) |
| 90 | 12 (0.33) | 8.3 (0.23) | 6.7 (0.19) | 5.6 (0.16) |

01391110 SADDLE RIVER AT PARAMUS, NJ

LOCATION -- LAT 40 56 47, LONG 074 05 56, BERGEN COUNTY, ON DUNKERHOOK ROAD IN PARAMUS, 0.4 MI (0.6 KM) WEST OF PARAMUS ROAD, 0.8 MI (1.3 KM) DOWNSTREAM FROM HOHOKUS BROOK, AND 2.2 MI (3.5 KM) NORTHWEST OF PARAMUS (INTERCHANGE ROUTES 17 AND 4).

DRAINAGE AREA -- 45.0 SQ-MI (116.6 SQ-KM)

TRIBUTARY TO -- PASSAIC RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01390500, 01391000 AND 01391500. CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1964-69, 71-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-------------|------------|
| 7 | 16.0 (0.45) | 8.6 (0.24) |

01391485 SPROUT BROOK AT ROCHELLE PARK, NJ

LOCATION -- LAT 40 54 45, LONG 074 04 47, BERGEN COUNTY, AT BRIDGE ON PASSAIC STREET IN ROCHELLE PARK, 500 FT (150 M) NORTHWEST OF THE CHALET RESTAURANT, 0.6 MI (1.0 KM) NORTHWEST OF INTERSECTION WITH STATE HIGHWAY 17, AND 0.9 MI (1.4 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 5.56 SQ-MI (14.40 SQ-KM)

TRIBUTARY TO -- SADDLE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01390500, 01391000 AND 01391500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.3 (0.12) | 3.3 (0.09) |

PASSAIC RIVER BASIN

01391500 SADDLE RIVER AT LODI, NJ

LOCATION -- LAT 40 53 25, LONG 074 04 51, BERGEN COUNTY, ON LEFT BANK 560 FT (170 M) UPSTREAM FROM OUTWATER LANE
 BRIDGE IN LODI AND 3.2 MI (5.1 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 54.6 SQ-MI (141.4 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 98.3 CU FT/S (2.78 CU M/S), ADJUSTED FOR DIVERSION.
 DAILY DISCHARGE EXTREMES -- MAXIMUM 2680 CU FT/S (75.9 CU M/S)
 MINIMUM 6.0 CU FT/S (0.17 CU M/S)
 REMARKS -- DIVERSION SINCE SEPTEMBER 1965 SIGNIFICANT AT LOW AND MEDIUM FLOWS ONLY.

DURATION TABLE OF DAILY FLOW -- PERIOD 1924-65
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 386 | 261 | 188 | 133 | 103 | 83.0 | 68.4 | 56.4 | 44.8 | 34.7 | 25.9 | 20.9 | 17.1 | 14.3 | 12.7 |
| CU M/S | 10.9 | 7.39 | 5.32 | 3.77 | 2.92 | 2.35 | 1.94 | 1.60 | 1.27 | 0.983 | 0.733 | 0.592 | 0.484 | 0.405 | 0.360 |

DURATION TABLE OF DAILY FLOW -- PERIOD 1966-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 485 | 298 | 197 | 134 | 106 | 88.9 | 73.2 | 59.1 | 48.3 | 37.7 | 27.2 | 22.9 | 17.6 | 12.9 | 11.0 |
| CU M/S | 13.7 | 8.44 | 5.58 | 3.80 | 3.00 | 2.52 | 2.07 | 1.67 | 1.37 | 1.07 | 0.770 | 0.649 | 0.498 | 0.365 | 0.312 |

LOW-FLOW FREQUENCY -- PERIOD 1925-65
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|------------|
| 3 | 20 (0.56) | 14 (0.40) | 12 (0.34) | 9.8 (0.28) |
| 7 | 21 (0.59) | 15 (0.42) | 13 (0.37) | 11 (0.31) |
| 30 | 27 (0.76) | 20 (0.57) | 17 (0.48) | 14 (0.40) |
| 90 | 38 (1.1) | 27 (0.76) | 22 (0.62) | 20 (0.57) |

LOW-FLOW FREQUENCY -- PERIOD 1967-75
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 24 (0.68) | 17 (0.48) | 13 (0.37) | 10 (0.28) |
| 7 | 25 (0.71) | 18 (0.51) | 14 (0.40) | 11 (0.31) |
| 30 | 33 (0.93) | 22 (0.62) | 18 (0.51) | 14 (0.40) |
| 90 | 51 (1.4) | 34 (0.96) | 25 (0.71) | 19 (0.54) |

01392000 WEASEL BROOK AT CLIFTON, NJ

LOCATION -- LAT 40 52 12, LONG 074 08 47, PASSAIC COUNTY, AT RIGHT OF MASONRY DAM AT SEWETT STREET IN CLIFTON.
 DRAINAGE AREA -- 4.45 SQ-MI (11.53 SQ-KM)
 TRIBUTARY TO -- PASSAIC RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 5.98 CU FT/S (0.169 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 167 CU FT/S (4.73 CU M/S)
 MINIMUM 0.6 CU FT/S (0.02 CU M/S)
 REMARKS -- INFLOW (AVERAGE ABOUT 2 CFS) FROM UNKNOWN SOURCE SINCE 1951.

DURATION TABLE OF DAILY FLOW -- PERIOD 1952-62
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 40.1 | 22.9 | 14.2 | 8.23 | 6.21 | 5.12 | 4.35 | 3.75 | 3.25 | 2.76 | 2.21 | 1.85 | 1.46 | 1.22 | 0.933 |
| CU M/S | 1.14 | 0.649 | 0.402 | 0.233 | 0.176 | 0.145 | 0.123 | 0.106 | 0.092 | 0.078 | 0.063 | 0.052 | 0.041 | 0.035 | 0.026 |

LOW-FLOW FREQUENCY -- PERIOD 1952-62
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 1.6 (0.05) | 1.1 (0.03) | 0.9 (0.03) | 0.7 (0.02) |
| 7 | 1.8 (0.05) | 1.3 (0.04) | 1.0 (0.03) | 0.8 (0.02) |
| 30 | 2.4 (0.07) | 1.6 (0.05) | 1.2 (0.03) | 0.9 (0.03) |
| 90 | 3.6 (0.10) | 2.8 (0.08) | 2.4 (0.07) | 2.0 (0.06) |

01392200 THIRD RIVER AT NUTLEY, NJ

LOCATION -- LAT 40 49 29, LONG 074 08 55, ESSEX COUNTY, AT BRIDGE ON PASSAIC AVENUE AND RUTGERS PLACE AT KINGSLAND PARK IN NUTLEY, AND 2.1 MI (3.4 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 11.4 SQ-MI (29.5 SQ-KM)

TRIBUTARY TO -- PASSAIC RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01390500, 01391000, 01391500 AND 01393500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-73
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.7 (0.10) | 2.3 (0.07) |

01392500 SECOND RIVER AT BELLEVILLE, NJ

LOCATION -- LAT 40 47 17, LONG 074 10 19, ESSEX COUNTY, ON RIGHT BANK IN BELLEVILLE, 300 FT (90 M) DOWNSTREAM FROM HENDRICKS BROOK, 360 FT (110 M) DOWNSTREAM FROM FRANKLIN AVENUE, 1,100 FT (340 M) DOWNSTREAM FROM HENDRICKS POND DAM, AND 1.4 MI (2.3 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 11.6 SQ-MI (30.0 SQ-KM)

TRIBUTARY TO -- PASSAIC RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 18.3 CU FT/S (0.518 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 658 CU FT/S (18.6 CU M/S)

MINIMUM 2.3 CU FT/S (0.06 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1938-64
DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 110 | 63.2 | 34.6 | 19.1 | 14.4 | 11.9 | 9.96 | 8.76 | 7.64 | 6.54 | 5.30 | 4.55 | 3.85 | 3.40 | 3.12 |
| CU M/S | 3.12 | 1.79 | 0.980 | 0.541 | 0.408 | 0.337 | 0.282 | 0.248 | 0.216 | 0.185 | 0.150 | 0.129 | 0.109 | 0.096 | 0.088 |

LOW-FLOW FREQUENCY -- PERIOD 1938-64
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 4.4 (0.12) | 3.6 (0.10) | 3.2 (0.09) | 3.0 (0.08) |
| 7 | 4.9 (0.14) | 4.0 (0.11) | 3.6 (0.10) | 3.4 (0.10) |
| 30 | 6.9 (0.19) | 5.6 (0.16) | 5.0 (0.14) | 4.5 (0.13) |
| 90 | 11 (0.31) | 8.6 (0.24) | 7.6 (0.22) | 6.9 (0.20) |

01393000 ELIZABETH RIVER AT IRVINGTON, NJ

LOCATION -- LAT 40 44 10, LONG 074 13 46, ESSEX COUNTY, ON RIGHT BANK 140 FT (40 M) DOWNSTREAM FROM VALLEY AVENUE BRIDGE IN IRVINGTON.

DRAINAGE AREA -- 2.90 SQ-MI (7.54 SQ-KM)

TRIBUTARY TO -- ARTHUR KILL

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 5.23 CU FT/S (0.148 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 230 CU FT/S (6.51 CU M/S)

MINIMUM 0.1 CU FT/S (0.00 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1931-38
DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 36.6 | 20.0 | 9.82 | 4.62 | 3.39 | 2.82 | 2.45 | 2.22 | 2.00 | 1.66 | 1.27 | 1.05 | 0.810 | 0.619 | 0.399 |
| CU M/S | 1.04 | 0.566 | 0.278 | 0.131 | 0.096 | 0.080 | 0.069 | 0.063 | 0.057 | 0.047 | 0.036 | 0.030 | 0.023 | 0.018 | 0.011 |

LOW-FLOW FREQUENCY -- PERIOD 1932-38
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.0 (0.03) | 0.3 (0.01) |

01393200 ELIZABETH RIVER BELOW CHANCELLOR AVENUE BRIDGE, AT IRVINGTON, NJ

LOCATION -- LAT 40 42 56, LONG 074 14 29, ESSEX COUNTY, ON RIGHT BANK 350 FT (110 M) DOWNSTREAM FROM CHANCELLOR AVENUE BRIDGE IN IRVINGTON, AND 2.2 MI (3.5 KM) UPSTREAM FROM WEST BRANCH.

DRAINAGE AREA -- 5.14 SQ-MI (13.31 SQ-KM)

TRIBUTARY TO -- ARTHUR KILL

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379500, 01386000, 01391000 AND 013935000. CORRELATIONS RATED POOR, AFFECTED BY REGULATION.

LOW-FLOW FREQUENCY -- PERIOD 1955,61-62,66

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.2 (0.03) | 0.7 (0.02) |

01393450 ELIZABETH RIVER AT URSINO LAKE, AT ELIZABETH, NJ

LOCATION -- LAT 40 40 30, LONG 074 13 20, UNION COUNTY, ON LEFT BANK AT URSINO LAKE DAM, 75 FT (20 M) UPSTREAM OF BRIDGE ON TROTTERS LANE, AND 3.8 MI (6.1 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 16.9 SQ-MI (43.8 SQ-KM)

TRIBUTARY TO -- ARTHUR KILL

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 25.5 CU FT/S (0.722 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 1900 CU FT/S (53.8 CU M/S)
MINIMUM 0.0 CU FT/S (0.00 CU M/S)

REMARKS -- OCCASIONAL REGULATION; PROBABLY NOT SIGNIFICANT. DIVERSION FROM WELLS SIGNIFICANT AT ALL FLOWS. DIVERSION FROM RIVER PRIOR TO 1929 ALSO SIGNIFICANT. GAGE 2,800 FT (850 M) DOWNSTREAM PRIOR TO 1973.

DURATION TABLE OF DAILY FLOW -- PERIOD 1930-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 170 | 93.0 | 51.0 | 26.2 | 18.2 | 14.7 | 12.4 | 10.7 | 9.21 | 7.71 | 6.10 | 4.83 | 3.20 | 2.00 | 1.23 |
| CU M/S | 4.81 | 2.63 | 1.44 | 0.742 | 0.515 | 0.416 | 0.351 | 0.303 | 0.261 | 0.218 | 0.173 | 0.137 | 0.091 | 0.057 | 0.035 |

LOW-FLOW FREQUENCY -- PERIOD 1930-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 3.6 (0.10) | 1.2 (0.03) | 0.6 (0.02) | 0.3 (0.01) |
| 7 | 5.8 (0.16) | 3.1 (0.09) | 1.9 (0.05) | 1.1 (0.03) |
| 30 | 9.0 (0.25) | 6.5 (0.18) | 5.3 (0.15) | 4.4 (0.12) |
| 90 | 15 (0.42) | 11 (0.31) | 9.2 (0.26) | 7.8 (0.22) |

01393800 EAST FORK EAST BRANCH RAHWAY RIVER AT WEST ORANGE, NJ

LOCATION -- LAT 40 46 10, LONG 074 14 37, ESSEX COUNTY, ON LEFT BANK 75 FT (20 M) DOWNSTREAM FROM CENTRAL AVENUE, ON PROPERTY OF MONROE SWEDA CORPORATION, AND ON BOUNDARY BETWEEN ORANGE AND WEST ORANGE.

DRAINAGE AREA -- 0.83 SQ-MI (2.15 SQ-KM)

TRIBUTARY TO -- RAHWAY RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01391000, 01393500 AND 01396500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1972-74

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01394000 WEST BRANCH RAHWAY RIVER AT MILLBURN, NJ

LOCATION -- LAT 40 43 51, LONG 074 18 26, ESSEX COUNTY, ON LEFT BANK 100 FT (30 M) UPSTREAM FROM DIAMOND MILL POND DAM, 1,000 FT (300 M) UPSTREAM FROM GLEN AVENUE IN MILLBURN, AND 1.9 MI (3.1 KM) UPSTREAM FROM CONFLUENCE WITH EAST BRANCH.

DRAINAGE AREA -- 7.10 SQ-MI (18.39 SQ-KM)

TRIBUTARY TO -- RAHWAY RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 7.03 CU FT/S (0.199 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 414 CU FT/S (11.7 CU M/S)
MINIMUM 0.0 CU FT/S (0.00 CU M/S)

REMARKS -- REGULATION REDUCES FLOOD PEAKS. DIVERSIONS VERY SIGNIFICANT AT ALL FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1940-50
DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 64.4 | 29.6 | 14.8 | 6.55 | 4.06 | 2.55 | 1.89 | 1.32 | 0.944 | 0.629 | 0.312 | 0.136 | 0.036 | 0.014 | 0.007 |
| CU M/S | 1.82 | 0.838 | 0.419 | 0.185 | 0.115 | 0.072 | 0.054 | 0.037 | 0.027 | 0.018 | 0.009 | 0.004 | 0.001 | 0.000 | 0.000 |

LOW-FLOW FREQUENCY -- PERIOD 1941-50
PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 0.2 (0.01) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 7 | 0.2 (0.01) | 0.1 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 30 | 0.5 (0.01) | 0.1 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 90 | 1.0 (0.03) | 0.3 (0.01) | 0.2 (0.01) | 0.0 (0.00) |

01394500 RAHWAY RIVER NEAR SPRINGFIELD, NJ

LOCATION -- LAT 40 41 11, LONG 074 18 44, UNION COUNTY, ON LEFT BANK 50 FT (15 M) DOWNSTREAM FROM BRIDGE ON U.S. HIGHWAY 22, 100 FT (30 M) DOWNSTREAM FROM POPE BROOK, AND 1.5 MI (2.4 KM) SOUTH OF SPRINGFIELD.

DRAINAGE AREA -- 25.5 SQ-MI (66.0 SQ-KM)

TRIBUTARY TO -- ARTHUR KILL

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 27.5 CU FT/S (0.778 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 1620 CU FT/S (45.9 CU M/S)
MINIMUM 0.4 CU FT/S (0.01 CU M/S)

REMARKS -- DIVERSION FROM WELLS AND RIVER VERY SIGNIFICANT AT ALL FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1939-75
DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 210 | 105 | 56.5 | 29.0 | 18.5 | 13.0 | 9.57 | 7.35 | 5.68 | 4.23 | 2.84 | 2.04 | 1.35 | 1.12 | 0.928 |
| CU M/S | 5.95 | 2.97 | 1.60 | 0.821 | 0.524 | 0.368 | 0.271 | 0.208 | 0.161 | 0.120 | 0.080 | 0.058 | 0.038 | 0.032 | 0.026 |

LOW-FLOW FREQUENCY -- PERIOD 1940-75
PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 2.1 (0.06) | 1.2 (0.03) | 0.9 (0.03) | 0.7 (0.02) |
| 7 | 2.3 (0.07) | 1.4 (0.04) | 1.1 (0.03) | 0.8 (0.02) |
| 30 | 4.4 (0.12) | 2.9 (0.08) | 2.2 (0.06) | 1.7 (0.05) |
| 90 | 8.2 (0.23) | 5.5 (0.16) | 4.5 (0.13) | 3.8 (0.11) |

01395000 RAHWAY RIVER AT RAHWAY, NJ

LOCATION -- LAT 40 37 05, LONG 074 17 00, UNION COUNTY, ON LEFT BANK 100 FT (30 M) UPSTREAM FROM ST. GEORGES AVENUE BRIDGE IN RAHWAY, AND 0.9 MI (1.4 KM) UPSTREAM FROM ROBINSONS BRANCH.
 DRAINAGE AREA -- 40.9 SQ-MI (105.9 SQ-KM)
 TRIBUTARY TO -- ARTHUR KILL
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 46.3 CU FT/S (1.31 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 3450 CU FT/S (97.7 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- DIVERSIONS FROM WELLS AND RIVER VERY SIGNIFICANT AT ALL FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1922-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 345 | 183 | 97.9 | 51.0 | 34.4 | 25.5 | 19.2 | 14.4 | 10.3 | 6.65 | 3.42 | 1.34 | 0.385 | 0.242 | 0.166 |
| CU M/S | 9.77 | 5.18 | 2.77 | 1.44 | 0.974 | 0.722 | 0.544 | 0.408 | 0.292 | 0.188 | 0.097 | 0.038 | 0.011 | 0.007 | 0.005 |

LOW-FLOW FREQUENCY -- PERIOD 1923-75
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 2.0 (0.06) | 0.5 (0.01) | 0.2 (0.01) | 0.1 (0.00) |
| 7 | 2.6 (0.07) | 0.7 (0.01) | 0.3 (0.01) | 0.1 (0.00) |
| 30 | 7.4 (0.21) | 2.9 (0.08) | 1.5 (0.04) | 0.8 (0.02) |
| 90 | 14 (0.40) | 7.8 (0.22) | 5.6 (0.16) | 4.2 (0.12) |

01396000 ROBINSONS BRANCH RAHWAY RIVER AT RAHWAY, NJ

LOCATION -- LAT 40 36 20, LONG 074 17 57, UNION COUNTY, ON RIGHT BANK OF MILTON LAKE, 2,000 FT (600 M) UPSTREAM FROM MADISON AVENUE IN RAHWAY, 3,200 FT (980 M) DOWNSTREAM FROM MIDDLESEX RESERVOIR DAM, AND 1.6 MI (2.6 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 21.6 SQ-MI (55.9 SQ-KM)
 TRIBUTARY TO -- RAHWAY RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 24.5 CU FT/S (0.693 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1240 CU FT/S (35.1 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- REGULATION REDUCES FLOOD PEAKS. DIVERSION VERY SIGNIFICANT AT ALL TIMES.

DURATION TABLE OF DAILY FLOW -- PERIOD 1940-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 233 | 119 | 54.8 | 24.7 | 14.4 | 9.26 | 5.97 | 3.56 | 1.99 | 1.15 | 0.418 | 0.189 | 0.006 |
| CU M/S | 6.60 | 3.37 | 1.55 | 0.700 | 0.408 | 0.262 | 0.169 | 0.101 | 0.056 | 0.033 | 0.012 | 0.005 | 0.000 |

LOW-FLOW FREQUENCY -- PERIOD 1941-75
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 0.2 (0.01) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 7 | 0.3 (0.01) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 30 | 0.8 (0.02) | 0.2 (0.01) | 0.0 (0.00) | 0.0 (0.00) |
| 90 | 2.8 (0.08) | 0.8 (0.02) | 0.4 (0.01) | 0.2 (0.01) |

RARITAN RIVER BASIN

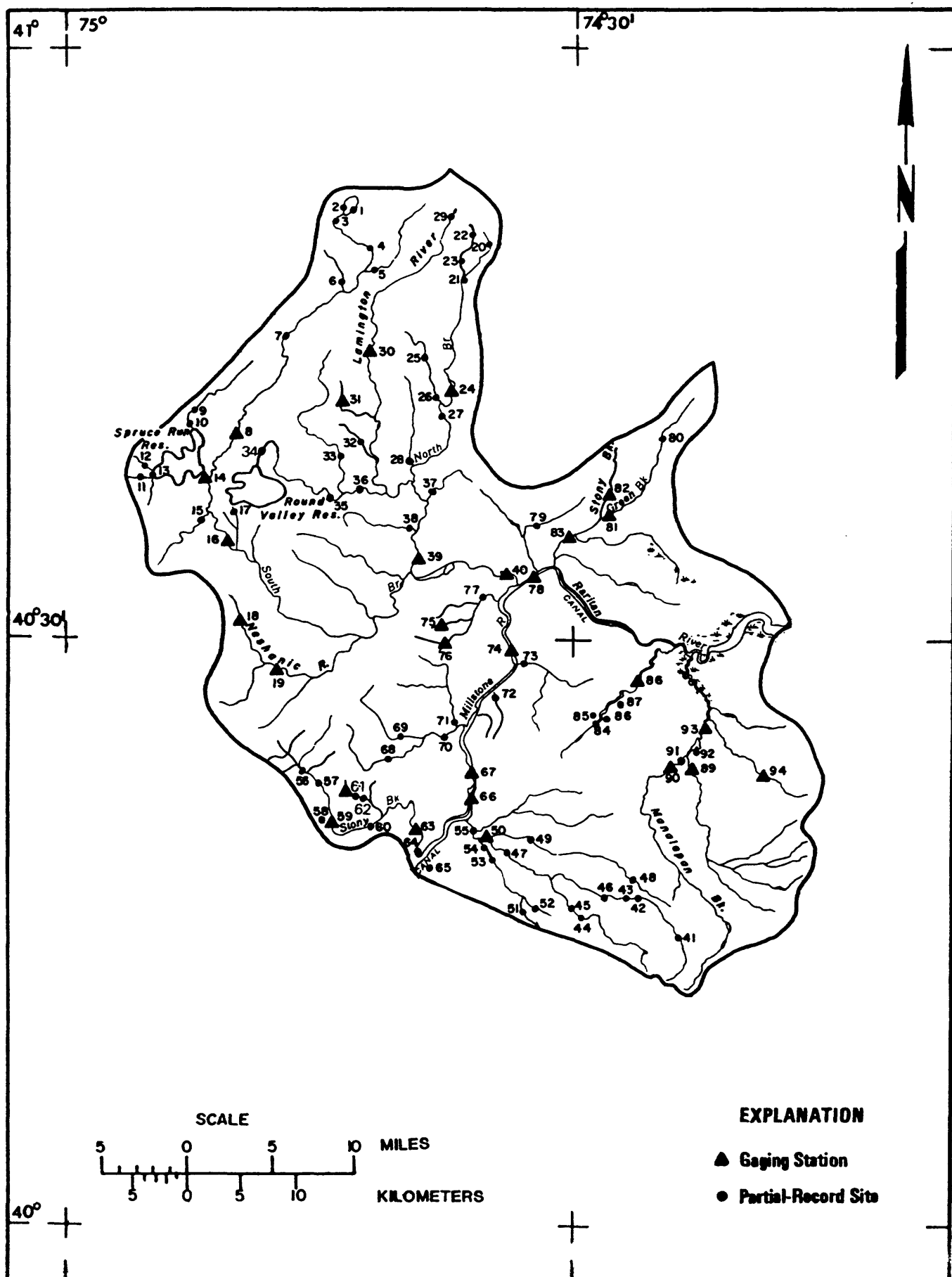


Figure 10.--Map Segment 2 showing site locations in the Raritan River basin

| MAP NO. | STATION NUMBER | STATION NAME | QUADRANGLE MAP 7.5 MINUTE SERIES | PAGE |
|------------------------------|----------------|--|----------------------------------|------|
| RARITAN RIVER BASIN | | | | |
| SOUTH BRANCH RARITAN RIVER: | | | | |
| 1 | 01396070 | SOUTH BRANCH RARITAN RIVER TRIBUTARY NO. 6 AT BUDD LAKE----- | CHESTER----- | 57 |
| 2 | 01396080 | SOUTH BRANCH RARITAN RIVER TRIBUTARY NO. 7 AT BUDD LAKE----- | CHESTER----- | 57 |
| 3 | 01396090 | SOUTH BRANCH RARITAN RIVER AT OUTLET OF BUDD LAKE----- | HACKETTSTOWN----- | 57 |
| 4 | 01396120 | SOUTH BRANCH RARITAN RIVER AT BARTLEY----- | CHESTER----- | 57 |
| 5 | 01396180 | DRAKES BROOK AT BARTLEY----- | CHESTER----- | 58 |
| 6 | 01396220 | STONY BROOK AT NAUGHTRIGHT----- | HACKETTSTOWN----- | 58 |
| 7 | 01396280 | SOUTH BRANCH RARITAN RIVER AT MIDDLE VALLEY----- | HACKETTSTOWN----- | 58 |
| 8 | 01396500 | SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE----- | HIGH BRIDGE----- | 58 |
| 9 | 01396590 | SPRUCE RUN NEAR HIGH BRIDGE----- | HIGH BRIDGE----- | 59 |
| 10 | 01396600 | SPRUCE RUN NEAR CLINTON----- | HIGH BRIDGE----- | 59 |
| 11 | 01396660 | MULHOCKAWAY CREEK AT VAN SYCKEL----- | HIGH BRIDGE----- | 59 |
| 12 | 01396670 | MULHOCKAWAY CREEK TRIBUTARY AT VAN SYCKEL----- | HIGH BRIDGE----- | 59 |
| 13 | 01396700 | MULHOCKAWAY CREEK NEAR CLINTON----- | HIGH BRIDGE----- | 60 |
| 14 | 01396800 | SPRUCE RUN AT CLINTON----- | HIGH BRIDGE----- | 60 |
| 15 | 01396900 | CAKEPOULIN CREEK AT LANSDOWNE----- | PITTSWOWN----- | 60 |
| 16 | 01397000 | SOUTH BRANCH RARITAN RIVER AT STANTON----- | FLEMINGTON----- | 61 |
| 17 | 01397100 | PRESCOTT BROOK AT ROUND VALLEY----- | FLEMINGTON----- | 61 |
| NESHANIC RIVER: | | | | |
| 18 | 01397500 | WALNUT BROOK NEAR FLEMINGTON----- | PITTSWOWN----- | 62 |
| 19 | 01398000 | NESHANIC RIVER AT REAVILLE----- | HOPEWELL----- | 62 |
| NORTH BRANCH RARITAN RIVER: | | | | |
| 20 | 01398220 | INDIA BROOK NEAR MENDHAM----- | MENDHAM----- | 62 |
| 21 | 01398260 | NORTH BRANCH RARITAN RIVER NEAR CHESTER----- | CHESTER----- | 63 |
| BURNETT BROOK: | | | | |
| 22 | 01398300 | DAWSONS BROOK NEAR IRONIA----- | CHESTER----- | 63 |
| 23 | 01398360 | BURNETT BROOK NEAR CHESTER----- | CHESTER----- | 63 |
| 24 | 01398500 | NORTH BRANCH RARITAN RIVER NEAR FAR HILLS----- | GLADSTONE----- | 63 |
| 25 | 01398700 | PEAPACK BROOK AT GLADSTONE----- | GLADSTONE----- | 64 |
| 26 | 01398850 | PEAPACK BROOK AT FAR HILLS----- | GLADSTONE----- | 64 |
| 27 | 01398950 | MINE BROOK AT FAR HILLS----- | GLADSTONE----- | 64 |
| 28 | 01399100 | MIDDLE BROOK AT BURNT MILLS----- | GLADSTONE----- | 64 |
| 29 | 01399200 | LAMINGTON (BLACK) RIVER NEAR IRONIA----- | CHESTER----- | 65 |
| 30 | 01399500 | LAMINGTON (BLACK) RIVER NEAR POTTERSVILLE----- | GLADSTONE----- | 65 |
| 31 | 01399510 | UPPER COLD BROOK NEAR POTTERSVILLE----- | CALIFON----- | 65 |
| 32 | 01399540 | COLD BROOK AT OLDWICK----- | GLADSTONE----- | 65 |
| 33 | 01399570 | ROCKAWAY CREEK AT MCCREA MILLS----- | CALIFON----- | 66 |
| SOUTH BRANCH ROCKAWAY CREEK: | | | | |
| 34 | 01399600 | SOUTH BRANCH ROCKAWAY CREEK TRIBUTARY AT LEBANON----- | CALIFON----- | 66 |
| 35 | 01399690 | SOUTH BRANCH ROCKAWAY CREEK AT WHITEHOUSE----- | FLEMINGTON----- | 66 |
| 36 | 01399700 | ROCKAWAY CREEK AT WHITEHOUSE----- | GLADSTONE----- | 66 |
| 37 | 01399820 | CHAMBERS BROOK NEAR NORTH BRANCH----- | RARITAN----- | 67 |
| 38 | 01399900 | CHAMBERS BROOK AT NORTH BRANCH DEPOT----- | RARITAN----- | 67 |
| 39 | 01400000 | NORTH BRANCH RARITAN RIVER NEAR RARITAN----- | RARITAN----- | 67 |
| 40 | 01400500 | RARITAN RIVER AT MANVILLE----- | BOUND BROOK----- | 68 |
| 41 | 01400540 | MILLSTONE RIVER NEAR MANALAPAN----- | JAMESBURG----- | 68 |
| 42 | 01400560 | MILLSTONE RIVER AT APLEGARTH----- | JAMESBURG----- | 68 |
| 43 | 01400580 | MILLSTONE RIVER AT HIGHTSTOWN----- | HIGHTSTOWN----- | 69 |
| 44 | 01400593 | ROCKY BROOK AT HIGHTSTOWN----- | HIGHTSTOWN----- | 69 |
| 45 | 01400596 | PEDDIE BROOK AT HIGHTSTOWN----- | HIGHTSTOWN----- | 69 |
| 46 | 01400600 | MILLSTONE RIVER AT LOCUST CORNER----- | HIGHTSTOWN----- | 69 |
| 47 | 01400640 | MILLSTONE RIVER NEAR GROVERS MILL----- | HIGHTSTOWN----- | 70 |
| 48 | 01400670 | CRANBURY BROOK AT OLD CHURCH----- | JAMESBURG----- | 70 |
| 49 | 01400700 | CRANBURY BROOK AT CRANBURY STATION----- | JAMESBURG----- | 70 |
| 50 | 01400730 | MILLSTONE RIVER AT PLAINSBORO----- | HIGHTSTOWN----- | 71 |
| 51 | 01400750 | BEAR BROOK NEAR HICKORY CORNER----- | HIGHTSTOWN----- | 71 |
| 52 | 01400770 | LITTLE BEAR BROOK AT HICKORY CORNER----- | HIGHTSTOWN----- | 71 |
| 53 | 01400800 | BEAR BROOK NEAR GROVERS MILL----- | HIGHTSTOWN----- | 71 |
| 54 | 01400810 | BEAR BROOK AT PRINCETON JUNCTION----- | HIGHTSTOWN----- | 72 |
| 55 | 01400820 | MILLSTONE RIVER AT PRINCETON JUNCTION----- | HIGHTSTOWN----- | 72 |
| 56 | 01400850 | WOODSVILLE BROOK AT WOODSVILLE----- | HOPEWELL----- | 72 |
| 57 | 01400900 | STONY BROOK AT GLENMOORE----- | PENNINGTON----- | 72 |
| 58 | 01400930 | BALDWIN CREEK AT PENNINGTON----- | PENNINGTON----- | 73 |
| 59 | 01400932 | BALDWIN CREEK AT BALDWIN LAKE, NEAR PENNINGTON----- | PENNINGTON----- | 73 |
| 60 | 01400947 | STONY BROOK AT PENNINGTON----- | PENNINGTON----- | 73 |
| 61 | 01400953 | HONEY BRANCH NEAR PENNINGTON----- | PENNINGTON----- | 74 |
| 62 | 01400970 | HONEY BRANCH NEAR ROSEDALE----- | PENNINGTON----- | 74 |
| 63 | 01401000 | STONY BROOK AT PRINCETON----- | PRINCETON----- | 74 |
| 64 | 01401100 | STONY BROOK AT CLARKSVILLE----- | PRINCETON----- | 75 |
| 65 | 01401200 | DUCK POND RUN AT CLARKSVILLE----- | PRINCETON----- | 75 |
| 66 | 01401301 | MILLSTONE RIVER AT CARNEGIE LAKE, AT PRINCETON----- | HIGHTSTOWN----- | 75 |
| 67 | 01401500 | MILLSTONE RIVER NEAR KINGSTON----- | MONMOUTH JUNCTION----- | 76 |
| 68 | 01401520 | BEDEN BROOK NEAR HOPEWELL----- | ROCKY HILL----- | 76 |
| 69 | 01401590 | ROCK BROOK AT BLAWENBURG----- | ROCKY HILL----- | 76 |
| 70 | 01401600 | BEDEN BROOK NEAR ROCKY HILL----- | ROCKY HILL----- | 77 |
| 71 | 01401700 | PIKE RUN NEAR ROCKY HILL----- | ROCKY HILL----- | 77 |
| 72 | 01401800 | TEN MILE RUN NEAR BLACKWELLS MILLS----- | MONMOUTH JUNCTION----- | 77 |
| 73 | 01401900 | SIX MILE RUN AT BLACKWELLS MILLS----- | MONMOUTH JUNCTION----- | 77 |
| 74 | 01402000 | MILLSTONE RIVER AT BLACKWELLS MILLS----- | MONMOUTH JUNCTION----- | 78 |
| ROYCE BROOK: | | | | |
| 75 | 01402590 | ROYCE BROOK TRIBUTARY AT FRANKFORT----- | RARITAN----- | 78 |
| 76 | 01402600 | ROYCE BROOK TRIBUTARY NEAR BELLE MEAD----- | ROCKY HILL----- | 78 |
| 77 | 01402700 | ROYCE BROOK AT MANVILLE----- | BOUND BROOK----- | 79 |
| 78 | 01403060 | RARITAN RIVER BELOW CALCO DAM, AT BOUND BROOK----- | BOUND BROOK----- | 79 |
| 79 | 01403100 | EAST BRANCH MIDDLE BROOK AT MARTINSVILLE----- | BOUND BROOK----- | 79 |
| BOUND BROOK: | | | | |
| 80 | 01403400 | GREEN BROOK AT SEELEY MILLS----- | CHATHAM----- | 79 |
| 81 | 01403500 | GREEN BROOK AT PLAINFIELD----- | PLAINFIELD----- | 80 |
| 82 | 01403540 | STONY BROOK AT WATCHUNG----- | CHATHAM----- | 80 |
| 83 | 01403900 | BOUND BROOK AT MIDDLESEX----- | BOUND BROOK----- | 80 |

| MAP NO. | STATION NUMBER | STATION NAME | QUADRANGLE MAP 7.5 MINUTE SERIES | PAGE |
|------------|-------------------|---|-------------------------------------|------|
| | | RARITAN RIVER BASIN--Continued | | |
| 84 | 01404300 | LAWRENCE BROOK AT OUTLET OF DAVIDSON'S MILL POND----- | NEW BRUNSWICK---- | 81 |
| 85 | 01404400 | OAKES BROOK NEAR PATRICKS CORNER----- | NEW BRUNSWICK---- | 81 |
| 86 | 01404470 | IRELAND BROOK AT PATRICKS CORNER----- | NEW BRUNSWICK---- | 81 |
| 87 | 01404700 | BEAVERDAM BROOK NEAR PATRICKS CORNER----- | NEW BRUNSWICK---- | 81 |
| 88 | 01405000 | LAWRENCE BROOK AT FARRINGTON DAM----- | NEW BRUNSWICK---- | 82 |
| 89 | 01405300 | MATCHAPONIX BROOK AT SPOTSWOOD----- | NEW BRUNSWICK---- | 82 |
| 90 | 01405400 | MANALAPAN BROOK AT SPOTSWOOD----- | NEW BRUNSWICK---- | 83 |
| 91 | 01405440 | MANALAPAN BROOK AT BRIDGE STREET AT SPOTSWOOD----- | NEW BRUNSWICK---- | 83 |
| 92 | 01405470 | IRISICK BROOK AT EAST SPOTSWOOD----- | SOUTH AMBOY----- | 83 |
| 93 | 01405500 | SOUTH RIVER AT OLD BRIDGE----- | SOUTH AMBOY----- | 84 |
| 94 | 01406000 | DEEP RUN NEAR BROWNTOWN----- | SOUTH AMBOY----- | 84 |

01396070 SOUTH BRANCH RARITAN RIVER TRIBUTARY NO. 6 AT BUDD LAKE, NJ

LOCATION -- LAT 40 52 20, LONG 074 44 18, MORRIS COUNTY, AT BRIDGE ON SHORE ROAD, 300 FT (90 M) UPSTREAM FROM MOUTH, AND 0.6 MI (1.0 KM) NORTH OF COMMUNITY OF BUDD LAKE.
DRAINAGE AREA -- 0.70 SQ-MI (1.81 SQ-KM)
TRIBUTARY TO -- SOUTH BRANCH RARITAN RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01396500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.1 (0.00) |

01396080 SOUTH BRANCH RARITAN RIVER TRIBUTARY NO. 7 AT BUDD LAKE, NJ

LOCATION -- LAT 40 52 06, LONG 074 44 22, MORRIS COUNTY, AT BRIDGE ON U.S. ROUTE 46, 300 FT (90 M) UPSTREAM FROM MOUTH, AND 0.3 MI (0.5 KM) NORTH OF COMMUNITY OF BUDD LAKE.
DRAINAGE AREA -- 0.21 SQ-MI (0.54 SQ-KM)
TRIBUTARY TO -- SOUTH BRANCH RARITAN RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01396500, 01399500 AND 01443500. CORRELATIONS RATED FAIR, AFFECTED BY REGULATION.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01396090 SOUTH BRANCH RARITAN RIVER AT OUTLET OF BUDD LAKE, NJ

LOCATION -- LAT 40 51 38, LONG 074 45 38, MORRIS COUNTY, AT BRIDGE ON SMITHTOWN ROAD, 200 FT (60 M) NORTHWEST OF U.S. ROUTE 46, AND 0.5 MI (0.8 KM) DOWNSTREAM FROM BUDD LAKE DAM.
DRAINAGE AREA -- 5.03 SQ-MI (13.03 SQ-KM)
TRIBUTARY TO -- RARITAN RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01396500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964, 73-77
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.0 (0.00) |

01396120 SOUTH BRANCH RARITAN RIVER AT BARTLEY, NJ

LOCATION -- LAT 40 49 51, LONG 074 43 30, MORRIS COUNTY, AT INLET TO DIVERSION TO MILL POND, 0.1 MI (0.2 KM) UPSTREAM FROM STEEL TRUSS BRIDGE NO. 114 AT LIGHT-DUTY ROAD, 0.7 MI (1.1 KM) NORTHWEST OF BARTLEY, AND 3.2 MI (5.1 KM) SOUTHEAST OF BUDD LAKE.
DRAINAGE AREA -- 12.5 SQ-MI (32.4 SQ-KM)
TRIBUTARY TO -- RARITAN RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01396500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-73
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.5 (0.13) | 2.2 (0.06) |

01396180 DRAKES BROOK AT BARTLEY, NJ

LOCATION -- LAT 40 48 43, LONG 074 43 45, MORRIS COUNTY, AT BRIDGE ON BARTLEY ROAD, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH, 0.9 MI (1.4 KM) SOUTHWEST OF BARTLEY, AND 2.5 MI (4.0 KM) NORTHWEST OF CHESTER.
 DRAINAGE AREA -- 16.6 SQ-MI (43.0 SQ-KM)
 TRIBUTARY TO -- SOUTH BRANCH RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-73, 75-76
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 7.2 (0.20) | 3.7 (0.10) |

01396220 STONY BROOK AT NAUGHRIGHT, NJ

LOCATION -- LAT 40 48 11, LONG 074 45 07, MORRIS COUNTY, AT BRIDGE ON NAUGHRIGHT ROAD AT FAIRVIEW AVENUE, 0.6 MI (1.0 KM) NORTHWEST OF NAUGHRIGHT, 0.7 MI (1.1 KM) UPSTREAM FROM MOUTH, AND 1.9 MI (3.1 KM) NORTHEAST OF LONG VALLEY.
 DRAINAGE AREA -- 3.34 SQ-MI (8.65 SQ-KM)
 TRIBUTARY TO -- SOUTH BRANCH RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67, 73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.8 (0.02) | 0.3 (0.01) |

01396280 SOUTH BRANCH RARITAN RIVER AT MIDDLE VALLEY, NJ

LOCATION -- LAT 40 45 40, LONG 074 49 18, MORRIS COUNTY, AT BRIDGE IN MIDDLE VALLEY, 6.9 MI (11.1 KM) DOWNSTREAM FROM DRAKES BROOK.
 DRAINAGE AREA -- 47.7 SQ-MI (123.5 SQ-KM)
 TRIBUTARY TO -- RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67, 73-76
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|-----------|-----------|
| | 2 YEARS | 10 YEARS |
| 7 | 24 (0.68) | 12 (0.34) |

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, NJ

LOCATION -- LAT 40 40 40, LONG 074 52 46, HUNTERDON COUNTY, ON LEFT BANK 1.0 MI (1.6 KM) NORTHEAST OF HIGH BRIDGE, AND 4.4 MI (7.1 KM) UPSTREAM FROM SPRUCE RUN.
 DRAINAGE AREA -- 65.3 SQ-MI (169.1 SQ-KM)
 TRIBUTARY TO -- RARITAN RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 119 CU FT/S (3.37 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 2740 CU FT/S (77.6 CU M/S)
 MINIMUM 13 CU FT/S (0.37 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1919-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 482 | 325 | 234 | 166 | 130 | 105 | 84.1 | 67.9 | 55.1 | 43.7 | 33.8 | 28.4 | 23.8 | 21.6 | 20.0 |
| CU M/S | 13.7 | 9.20 | 6.63 | 4.70 | 3.68 | 2.97 | 2.38 | 1.92 | 1.56 | 1.24 | 0.957 | 0.804 | 0.674 | 0.612 | 0.566 |

LOW-FLOW FREQUENCY -- PERIOD 1920-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | | | |
|----|-----------|-----------|-----------|-----------|
| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
| 3 | 31 (0.88) | 24 (0.68) | 21 (0.59) | 18 (0.51) |
| 7 | 32 (0.91) | 25 (0.71) | 21 (0.59) | 19 (0.54) |
| 30 | 37 (1.0) | 28 (0.79) | 24 (0.68) | 21 (0.59) |
| 90 | 48 (1.4) | 33 (0.93) | 28 (0.79) | 24 (0.68) |

01396590 SPRUCE RUN NEAR HIGH BRIDGE, NJ

LOCATION -- LAT 40 40 26, LONG 074 55 04, HUNTERDON COUNTY, AT BRIDGE ON VAN SYCKELS CORNER ROAD, AT INLET TO SPRUCE RUN RESERVOIR, 1.3 MI (2.1 KM) NORTHWEST OF HIGH BRIDGE.

DRAINAGE AREA -- 15.5 SQ-MI (40.1 SQ-KM)

TRIBUTARY TO -- SOUTH BRANCH RARITAN RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1973-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.3 (0.09) | 1.5 (0.04) |

01396600 SPRUCE RUN NEAR CLINTON, NJ

LOCATION -- LAT 40 40 15, LONG 074 55 04, HUNTERDON COUNTY, AT BRIDGE 600 FT (180 M) WEST OF STATE ROUTE 31, 2.4 MI (3.9 KM) ABOVE MULHOCKAWAY CREEK, AND 2.5 MI (4.0 KM) NORTH OF CLINTON.

DRAINAGE AREA -- 18.1 SQ-MI (46.9 SQ-KM)

TRIBUTARY TO -- SOUTH BRANCH RARITAN RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND 01399500. CORRELATIONS RATED GOOD. SITE SUBMERGED BY SPRUCE RUN RESERVOIR SINCE 1964.

LOW-FLOW FREQUENCY -- PERIOD 1959-64

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.4 (0.12) | 2.3 (0.07) |

01396660 MULHOCKAWAY CREEK AT VAN SYCKEL, NJ

LOCATION -- LAT 40 38 51, LONG 074 58 09, HUNTERDON COUNTY, AT BRIDGE ON JUTLAND ROAD, 0.2 MI (0.3 KM) SOUTH OF VAN SYCKEL, AND 2.7 MI (4.3 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 11.8 SQ-MI (30.6 SQ-KM)

TRIBUTARY TO -- SPRUCE RUN

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1973-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.5 (0.07) | 1.1 (0.03) |

01396670 MULHOCKAWAY CREEK TRIBUTARY AT VAN SYCKEL, NJ

LOCATION -- LAT 40 39 05, LONG 074 58 13, HUNTERDON COUNTY, AT BRIDGE ON VAN SYCKELS CORNER ROAD AT VAN SYCKEL, AND 0.4 MI (0.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 2.76 SQ-MI (7.15 SQ-KM)

TRIBUTARY TO -- MULHOCKAWAY CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND 01399500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1973-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.6 (0.02) | 0.2 (0.01) |

01396700 MULHOCKAWAY CREEK NEAR CLINTON, NJ

LOCATION -- LAT 40 38 58, LONG 074 55 41, HUNTERDON COUNTY, AT BRIDGE ON COUNTY ROAD, 0.7 MI (1.1 KM) UPSTREAM FROM MOUTH, AND 1.3 MI (2.1 KM) NORTHWEST OF CLINTON.

DRAINAGE AREA -- 20.5 SQ-MI (53.1 SQ-KM)

TRIBUTARY TO -- SPRUCE RUN

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND 01399500. CORRELATIONS RATED GOOD. SITE SUBMERGED BY SPRUCE RUN RESERVOIR SINCE 1964.

LOW-FLOW FREQUENCY -- PERIOD 1959-64

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 5.3 (0.15) | 2.9 (0.08) |

01396800 SPRUCE RUN AT CLINTON, NJ

LOCATION -- LAT 40 38 21, LONG 074 54 58, HUNTERDON COUNTY, ON RIGHT BANK 1,800 FT (550 M) DOWNSTREAM FROM DAM AT SPRUCE RUN RESERVOIR, 0.2 MI (0.3 KM) NORTH OF CLINTON, 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH, AND 2.2 MI (3.5 KM) SOUTHWEST OF HIGH BRIDGE.

DRAINAGE AREA -- 41.3 SQ-MI (107.0 SQ-KM)

TRIBUTARY TO -- SOUTH BRANCH RARITAN RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 59.3 CU FT/S (1.68 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 1880 CU FT/S (53.2 CU M/S)

MINIMUM 0.0 CU FT/S (0.00 CU M/S)

REMARKS -- FLOW REGULATED BY SPRUCE RUN RESERVOIR SINCE OCTOBER 1963.

DURATION TABLE OF DAILY FLOW -- PERIOD 1961-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 292 | 204 | 147 | 101 | 74.7 | 56.2 | 41.4 | 27.6 | 16.2 | 10.2 | 8.11 | 5.95 | 4.62 | 3.63 | 2.24 |
| CU M/S | 8.27 | 5.78 | 4.16 | 2.86 | 2.12 | 1.59 | 1.17 | 0.782 | 0.459 | 0.289 | 0.230 | 0.169 | 0.131 | 0.103 | 0.063 |

LOW-FLOW FREQUENCY -- PERIOD 1962-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 5.9 (0.17) | 2.0 (0.06) | 0.9 (0.03) | 0.4 (0.01) |
| 7 | 7.6 (0.22) | 3.1 (0.09) | 1.5 (0.04) | 0.8 (0.02) |
| 30 | 10 (0.28) | 4.4 (0.12) | 2.3 (0.07) | 1.2 (0.03) |
| 90 | 16 (0.45) | 6.6 (0.19) | 3.8 (0.11) | 2.4 (0.07) |

01396900 CAKEPOULIN CREEK AT LANSDOWNE, NJ

LOCATION -- LAT 40 36 28, LONG 074 54 58, HUNTERDON COUNTY, AT BRIDGE ON COUNTY ROAD, 0.4 MI (0.6 KM) UPSTREAM FROM MOUTH, 0.5 MI (0.8 KM) WEST OF LANSDOWNE, AND 2.1 MI (3.4 KM) SOUTH OF CLINTON.

DRAINAGE AREA -- 14.1 SQ-MI (36.5 SQ-KM)

TRIBUTARY TO -- SOUTH BRANCH RARITAN RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-65

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.1 (0.09) | 1.6 (0.05) |

RARITAN RIVER BASIN

01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, NJ

LOCATION -- LAT 40 34 21, LONG 074 52 10, HUNTERDON COUNTY, ON RIGHT BANK AT DOWNSTREAM SIDE OF HIGHWAY BRIDGE AT STANTON STATION, 0.4 MI (0.6 KM) UPSTREAM FROM PRESCOTT BROOK, AND 1.4 MI (2.3 KM) WEST OF STANTON.

DRAINAGE AREA -- 147 SQ-MI (381 SQ-KM)

TRIBUTARY TO -- RARITAN RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 239 CU FT/S (6.77 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 8060 CU FT/S (228 CU M/S)

MINIMUM 12 CU FT/S (0.34 CU M/S)

REMARKS -- REGULATION SINCE SEPTEMBER 1963 REDUCES FLOOD PEAKS AND AUGMENTS LOW FLOW. DIVERSION SINCE FEBRUARY 1966 REDUCES MEDIUM AND HIGH FLOWS SOME SEASONS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1904-63

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 1050 | 690 | 479 | 326 | 251 | 201 | 162 | 129 | 101 | 76.8 | 56.4 | 46.0 | 37.6 | 33.2 | 29.5 |
| CU M/S | 29.7 | 19.5 | 13.6 | 9.23 | 7.11 | 5.69 | 4.59 | 3.65 | 2.86 | 2.17 | 1.60 | 1.30 | 1.06 | 0.940 | 0.835 |

DURATION TABLE OF DAILY FLOW -- PERIOD 1964-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 990 | 671 | 481 | 333 | 250 | 196 | 157 | 129 | 101 | 79.5 | 60.7 | 49.7 | 39.4 | 33.7 | 30.3 |
| CU M/S | 28.0 | 19.0 | 13.6 | 9.43 | 7.08 | 5.55 | 4.45 | 3.65 | 2.86 | 2.25 | 1.72 | 1.41 | 1.12 | 0.954 | 0.858 |

LOW-FLOW FREQUENCY -- PERIOD 1905-63

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|----------|-----------|-----------|-----------|
| 3 | 46 (1.3) | 35 (0.99) | 30 (0.85) | 26 (0.74) |
| 7 | 50 (1.4) | 38 (1.1) | 33 (0.93) | 29 (0.82) |
| 30 | 61 (1.7) | 46 (1.3) | 39 (1.1) | 35 (0.99) |
| 90 | 83 (2.4) | 58 (1.6) | 48 (1.4) | 41 (1.2) |

LOW-FLOW FREQUENCY -- PERIOD 1964-75

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 58 (1.6) | 35 (0.99) | 26 (0.74) | 20 (0.57) |
| 7 | 64 (1.8) | 40 (1.1) | 31 (0.88) | 24 (0.68) |
| 30 | 83 (2.4) | 51 (1.4) | 38 (1.1) | 30 (0.85) |
| 90 | 100 (2.8) | 65 (1.8) | 51 (1.4) | 41 (1.2) |

01397100 PRESCOTT BROOK AT ROUND VALLEY, NJ

LOCATION -- LAT 40 36 28, LONG 074 50 54, HUNTERDON COUNTY, AT BRIDGE ON COUNTY ROAD AT MCPHERSON, 2.3 MI (3.7 KM) NORTH OF STANTON, AND 3.4 MI (5.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 4.61 SQ-MI (11.94 SQ-KM)

TRIBUTARY TO -- SOUTH BRANCH RARITAN RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01397000, 01398000 AND 01399500. CORRELATIONS RATED GOOD. FLOW CONTROLLED BY ROUND VALLEY RESERVOIR SINCE 1966.

LOW-FLOW FREQUENCY -- PERIOD 1958-63

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.0 (0.03) | 0.5 (0.01) |

01397500 WALNUT BROOK NEAR FLEMINGTON, NJ

LOCATION -- LAT 40 30 55, LONG 074 52 52, HUNTERDON COUNTY, ON RIGHT BANK 1.2 MI (1.9 KM) NORTHWEST OF FLEMINGTON, AND 2.3 MI (3.7 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 2.24 SQ-MI (5.80 SQ-KM)

TRIBUTARY TO -- FIRST NESHANIC RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 3.23 CU FT/S (0.091 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 92 CU FT/S (2.6 CU M/S)
MINIMUM 0.0 CU FT/S (0.00 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1937-61

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 24.8 | 12.7 | 7.48 | 4.25 | 2.80 | 1.87 | 1.26 | 0.739 | 0.390 | 0.180 | 0.074 | 0.022 | 0.006 |
| CU M/S | 0.702 | 0.360 | 0.212 | 0.120 | 0.079 | 0.053 | 0.036 | 0.021 | 0.011 | 0.005 | 0.002 | 0.001 | 0.000 |

LOW-FLOW FREQUENCY -- PERIOD 1937-61

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 7 | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 30 | 0.1 (0.00) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 90 | 0.2 (0.01) | 0.1 (0.00) | 0.0 (0.00) | 0.0 (0.00) |

01398000 NESHANIC RIVER AT REAVILLE, NJ

LOCATION -- LAT 40 28 18, LONG 074 49 42, HUNTERDON COUNTY, ON LEFT BANK 50 FT (15 M) DOWNSTREAM FROM HIGHWAY BRIDGE, 0.6 (1.0 KM) SOUTHWEST OF REAVILLE, 1.5 MI (2.4 KM) DOWNSTREAM FROM THIRD NESHANIC RIVER, AND 2.2 MI (3.5 KM) UPSTREAM FROM BACK BROOK.

DRAINAGE AREA -- 25.7 SQ-MI (66.6 SQ-KM)

TRIBUTARY TO -- SOUTH BRANCH RARITAN RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 35.5 CU FT/S (1.01 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 4740 CU FT/S (134 CU M/S)
MINIMUM 0.0 CU FT/S (0.00 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1931-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 270 | 129 | 75.4 | 41.8 | 26.8 | 17.9 | 11.9 | 7.46 | 4.30 | 2.44 | 1.36 | 0.869 | 0.493 | 0.324 | 0.199 |
| CU M/S | 7.65 | 3.65 | 2.14 | 1.18 | 0.759 | 0.507 | 0.337 | 0.211 | 0.122 | 0.069 | 0.039 | 0.025 | 0.014 | 0.009 | 0.006 |

LOW-FLOW FREQUENCY -- PERIOD 1932-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 1.0 (0.03) | 0.4 (0.01) | 0.2 (0.01) | 0.1 (0.00) |
| 7 | 1.1 (0.03) | 0.5 (0.01) | 0.3 (0.01) | 0.1 (0.00) |
| 30 | 1.5 (0.04) | 0.8 (0.02) | 0.5 (0.01) | 0.4 (0.01) |
| 90 | 3.4 (0.09) | 1.5 (0.04) | 1.0 (0.03) | 0.7 (0.02) |

01398220 INDIA BROOK NEAR MENDHAM, NJ

LOCATION -- LAT 40 47 11, LONG 074 37 16, MORRIS COUNTY, AT BRIDGE ON MOUNTAIN ROAD, 0.5 MI (0.8 KM) UPSTREAM FROM MOUTH, AND 1.3 MI (2.1 KM) NORTHWEST OF MENDHAM.

DRAINAGE AREA -- 4.36 SQ-MI (11.29 SQ-KM)

TRIBUTARY TO -- NORTH BRANCH RARITAN RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.0 (0.03) | 0.3 (0.01) |

01398260 NORTH BRANCH RARITAN RIVER NEAR CHESTER, NJ

LOCATION -- LAT 40 46 16, LONG 074 37 34, MORRIS COUNTY, AT BRIDGE ON STATE ROUTE 24, 0.8 MI (1.3 KM) UPSTREAM FROM BURNETT BROOK, AND 3.8 MI (6.1 KM) EAST OF CHESTER.
 DRAINAGE AREA -- 7.57 SQ-MI (19.61 SQ-KM)
 TRIBUTARY TO -- RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 1.9 (0.05) | 0.7 (0.02) |

01398300 DAWSONS BROOK NEAR IRONIA, NJ

LOCATION -- LAT 40 48 15, LONG 074 37 42, MORRIS COUNTY, ON BRIDGE ON BLACKTOP ROAD, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH, 1.3 MI (2.1 KM) SOUTH OF IRONIA, AND 2.4 MI (3.9 KM) NORTHWEST OF MENDHAM.
 DRAINAGE AREA -- 1.04 SQ-MI (2.69 SQ-KM)
 TRIBUTARY TO -- BURNETT BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.5 (0.01) | 0.2 (0.01) |

01398360 BURNETT BROOK NEAR CHESTER, NJ

LOCATION -- LAT 40 46 57, LONG 074 38 43, MORRIS COUNTY, AT BRIDGE ON OLD MILL ROAD, 1.6 MI (2.6 KM) UPSTREAM FROM MOUTH, AND 2.6 MI (4.2 KM) EAST OF CHESTER.
 DRAINAGE AREA -- 6.64 SQ-MI (17.20 SQ-KM)
 TRIBUTARY TO -- NORTH BRANCH RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 2.7 (0.08) | 1.2 (0.03) |

01398500 NORTH BRANCH RARITAN RIVER NEAR FAR HILLS, NJ

LOCATION -- LAT 40 42 30, LONG 074 38 11, SOMERSET COUNTY, ON LEFT BANK 75 FT (25 M) UPSTREAM FROM RAVINE LAKE DAM, 1.6 MI (2.6 KM) NORTH OF FAR HILLS, AND 2.3 MI (3.7 KM) UPSTREAM FROM PEAPACK BROOK.
 DRAINAGE AREA -- 26.2 SQ-MI (67.9 SQ-KM)
 TRIBUTARY TO -- RARITAN RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 47.2 CU FT/S (1.34 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1240 CU FT/S (35.1 CU M/S)
 MINIMUM 0.2 CU FT/S (0.01 CU M/S)
 REMARKS -- REGULATION REDUCES FLOOD PEAKS AND OCCASIONALLY IS SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1922-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 205 | 136 | 98.1 | 67.2 | 51.5 | 40.6 | 32.5 | 25.9 | 20.0 | 14.5 | 9.80 | 7.18 | 5.04 | 3.89 | 3.15 |
| CU M/S | 5.81 | 3.85 | 2.78 | 1.90 | 1.46 | 1.15 | 0.920 | 0.733 | 0.566 | 0.411 | 0.278 | 0.203 | 0.143 | 0.110 | 0.089 |

LOW-FLOW FREQUENCY -- PERIOD 1923-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | | | |
|----|------------|------------|------------|------------|
| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
| 3 | 8.7 (0.25) | 4.1 (0.12) | 2.2 (0.06) | 1.1 (0.03) |
| 7 | 9.6 (0.27) | 4.5 (0.13) | 2.4 (0.07) | 1.2 (0.03) |
| 30 | 11 (0.31) | 6.4 (0.18) | 4.7 (0.13) | 3.5 (0.10) |
| 90 | 15 (0.42) | 9.4 (0.27) | 7.2 (0.20) | 5.8 (0.16) |

RARITAN RIVER BASIN

01398700 PEAPACK BROOK AT GLADSTONE, NJ

LOCATION -- LAT 40 43 58, LONG 074 40 07, SOMERSET COUNTY, AT BRIDGE ON BLACKTOP ROAD, 0.1 MI (0.2 KM) UPSTREAM FROM GLADSTONE BROOK, AND 0.8 MI (1.3 KM) NORTH OF GLADSTONE.
 DRAINAGE AREA -- 4.23 SQ-MI (10.96 SQ-KM)
 TRIBUTARY TO -- NORTH BRANCH RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.2 (0.03) | 0.5 (0.01) |

01398850 PEAPACK BROOK AT FAR HILLS, NJ

LOCATION -- LAT 40 41 28, LONG 074 38 52, SOMERSET COUNTY, AT BRIDGE ON LIGHT-DUTY ROAD, 0.1 MI (0.2 KM) UPSTREAM FROM MOUTH, AND 0.7 MI (1.1 KM) NORTHWEST OF FAR HILLS.
 DRAINAGE AREA -- 11.7 SQ-MI (30.3 SQ-KM)
 TRIBUTARY TO -- NORTH BRANCH RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67, 73-76
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.4 (0.10) | 1.3 (0.04) |

01398950 MINE BROOK AT FAR HILLS, NJ

LOCATION -- LAT 40 40 57, LONG 074 38 08, SOMERSET COUNTY, AT BRIDGE ON LIGHT DUTY ROAD IN FAR HILLS, AND 0.1 MI (0.2 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 7.78 SQ-MI (20.2 SQ-KM)
 TRIBUTARY TO -- NORTH BRANCH RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67, 73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.2 (0.06) | 0.9 (0.03) |

01399100 MIDDLE BROOK AT BURNT MILLS, NJ

LOCATION -- LAT 40 38 50, LONG 074 40 52, SOMERSET COUNTY, AT BRIDGE ON CUTTING WHITNEY ROAD, 200 FT (60 M) UPSTREAM FROM MOUTH, 0.8 MI (1.3 KM) NORTHEAST OF BURNT MILLS, AND 2.9 MI (4.7 KM) SOUTHWEST OF BEDMINSTER.
 DRAINAGE AREA -- 6.67 SQ-MI (17.28 SQ-KM)
 TRIBUTARY TO -- NORTH BRANCH RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67, 76
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01399200 LAMINGTON (BLACK) RIVER NEAR IRONIA, NJ

LOCATION -- LAT 40 50 07, LONG 074 38 40, MORRIS COUNTY, AT BRIDGE NO. 742 ON IRONIA ROAD, 1.0 MI (1.6 KM) BELOW SUCCASUNNA BROOK, 1.3 MI (2.1 KM) NORTHWEST OF IRONIA, AND 4.4 MI (7.1 KM) NORTHEAST OF CHESTER.
 DRAINAGE AREA -- 10.9 SQ-MI (28.2 SQ-KM)
 TRIBUTARY TO -- NORTH BRANCH RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.7 (0.13) | 2.1 (0.06) |

01399500 LAMINGTON (BLACK) RIVER NEAR POTTERSVILLE, NJ

LOCATION -- LAT 40 43 39, LONG 074 43 50, MORRIS COUNTY, ON RIGHT BANK 1.1 MI (1.8 KM) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 512, 1.2 MI (1.9 KM) NORTHWEST OF POTTERSVILLE, AND 5.5 MI (8.8 KM) UPSTREAM FROM COLD BROOK.
 DRAINAGE AREA -- 32.8 SQ-MI (85.0 SQ-KM)
 TRIBUTARY TO -- NORTH BRANCH RARITAN RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 55.4 CU FT/S (1.57 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 888 CU FT/S (25.1 CU M/S)
 MINIMUM 1.5 CU FT/S (0.04 CU M/S)
 REMARKS -- SLIGHT REGULATION; PROBABLY NOT SIGNIFICANT.

DURATION TABLE OF DAILY FLOW -- PERIOD 1922-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 186 | 142 | 114 | 84.1 | 66.2 | 53.6 | 43.1 | 34.2 | 26.9 | 20.1 | 14.1 | 9.99 | 6.53 | 5.21 | 4.43 |
| CU M/S | 5.27 | 4.02 | 3.23 | 2.38 | 1.87 | 1.52 | 1.22 | 0.969 | 0.762 | 0.569 | 0.399 | 0.283 | 0.185 | 0.148 | 0.125 |

LOW-FLOW FREQUENCY -- PERIOD 1923-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|------------|------------|------------|
| 3 | 11 (0.31) | 6.1 (0.17) | 4.3 (0.12) | 3.1 (0.09) |
| 7 | 12 (0.34) | 6.7 (0.19) | 4.8 (0.14) | 3.6 (0.10) |
| 30 | 14 (0.40) | 8.7 (0.25) | 6.5 (0.18) | 5.0 (0.14) |
| 90 | 21 (0.59) | 12 (0.34) | 9.2 (0.26) | 7.1 (0.20) |

01399510 UPPER COLD BROOK NEAR POTTERSVILLE, NJ

LOCATION -- LAT 40 43 16, LONG 074 45 09, HUNTERDON COUNTY, ON RIGHT BANK ALONG A PRIVATE DIRT ROAD, 400 FT (120 M) DOWNSTREAM FROM THE POTTERSVILLE RESERVOIR, AND 1.5 MI (2.4 KM) WEST OF POTTERSVILLE.
 DRAINAGE AREA -- 2.18 SQ-MI (5.65 SQ-KM)
 TRIBUTARY TO -- COLD BROOK
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500, AND 01399500. CORRELATIONS RATED GOOD. FLOW REGULATED BY POTTERSVILLE RESERVOIR.

LOW-FLOW FREQUENCY -- PERIOD 1973-76
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.3 (0.01) | 0.1 (0.00) |

01399540 COLD BROOK AT OLDWICK, NJ

LOCATION -- LAT 40 40 30, LONG 074 44 18, HUNTERDON COUNTY, AT BRIDGE ON LIGHT DUTY ROAD, 0.6 MI (1.0 KM) EAST OF OLDWICK, AND 0.8 MI (1.3 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 5.32 SQ-MI (13.78 SQ-KM)
 TRIBUTARY TO -- LAMINGTON RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.3 (0.07) | 1.2 (0.03) |

RARITAN RIVER BASIN

01399570 ROCKAWAY CREEK AT MCCREA MILLS, NJ

LOCATION -- LAT 40 39 42, LONG 074 45 58, HUNTERDON COUNTY, AT BRIDGE IN MCCREA MILLS, 1.1 MI (1.8 KM) SOUTHWEST OF OLDWICK, 3.1 MI (5.0 KM) ABOVE SOUTH BRANCH ROCKAWAY CREEK, AND 4.0 MI (6.4 KM) NORTHEAST OF LEBANON.
 DRAINAGE AREA -- 17.0 SQ-MI (44.0 SQ-KM)
 TRIBUTARY TO -- LAMINGTON RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1961-65

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 5.6 (0.16) | 2.3 (0.07) |

01399600 SOUTH BRANCH ROCKAWAY CREEK TRIBUTARY AT LEBANON, NJ

LOCATION -- LAT 40 38 05, LONG 074 49 58, HUNTERDON COUNTY, AT BRIDGE ON SECONDARY ROAD, 0.1 MI (0.2 KM) SOUTH OF TRACKS OF CENTRAL RAILROAD OF NEW JERSEY, 0.5 MI (0.8 KM) SOUTHEAST OF LEBANON, AND 0.6 MI (1.0 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 1.02 SQ-MI (2.64 SQ-KM)
 TRIBUTARY TO -- SOUTH BRANCH ROCKAWAY CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND 01399500. CORRELATIONS RATED FAIR. FLOW CONTROLLED BY ROUND VALLEY RESERVOIR SINCE 1966.

LOW-FLOW FREQUENCY -- PERIOD 1958, 60-64

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.1 (0.00) |

01399690 SOUTH BRANCH ROCKAWAY CREEK AT WHITEHOUSE, NJ

LOCATION -- LAT 40 37 24, LONG 074 46 01, HUNTERDON COUNTY, AT BRIDGE ON U.S. ROUTE 22, 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH, 0.6 MI (1.0 KM) NORTH OF WHITEHOUSE STATION, AND 0.9 MI (1.5 KM) WEST OF WHITEHOUSE.
 DRAINAGE AREA -- 13.2 SQ-MI (34.2 SQ-KM)
 TRIBUTARY TO -- ROCKAWAY CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01399500 AND 01400000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.6 (0.07) | 1.2 (0.03) |

01399700 ROCKAWAY CREEK AT WHITEHOUSE, NJ

LOCATION -- LAT 40 37 49, LONG 074 44 11, HUNTERDON COUNTY, AT BRIDGE ON LAMINGTON ROAD, 1.4 MI (2.3 KM) NORTHEAST OF WHITEHOUSE, AND 1.8 MI (2.9 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 37.1 SQ-MI (96.1 SQ-KM)
 TRIBUTARY TO -- LAMINGTON RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500, 01399500 AND 01400000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-65, 73

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 9.2 (0.26) | 4.0 (0.11) |

01399820 CHAMBERS BROOK NEAR NORTH BRANCH, NJ

LOCATION -- LAT 40 37 26, LONG 074 39 48, SOMERSET COUNTY, AT BRIDGE ON LOVE ROAD, 0.6 MI (1.0 KM) UPSTREAM FROM MOUTH, AND 1.7 MI (2.7 KM) NORTHEAST OF NORTH BRANCH.

DRAINAGE AREA -- 4.71 SQ-MI (12.20 SQ-KM)

TRIBUTARY TO -- NORTH BRANCH RARITAN RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398500 AND 01399500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1964-72
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01399900 CHAMBERS BROOK AT NORTH BRANCH DEPOT, NJ

LOCATION -- LAT 40 35 32, LONG 074 41 00, SOMERSET COUNTY, AT BRIDGE ON STATION ROAD IN NORTH BRANCH DEPOT, 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH, AND 3.0 MI (4.8 KM) NORTHWEST OF RARITAN.

DRAINAGE AREA -- 10.2 SQ-MI (26.4 SQ-KM)

TRIBUTARY TO -- NORTH BRANCH RARITAN RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398500, 01399500 AND 01400000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64, 76
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.6 (0.02) | 0.1 (0.00) |

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ

LOCATION -- LAT 40 34 10, LONG 074 40 45, SOMERSET COUNTY, ON RIGHT BANK 400 FT (120 M) UPSTREAM FROM U.S. ROUTE 202, 1.4 MI (2.3 KM) UPSTREAM FROM CONFLUENCE WITH SOUTH BRANCH, AND 2.7 MI (4.3 KM) WEST OF RARITAN.

DRAINAGE AREA -- 190 SQ-MI (492 SQ-KM)

TRIBUTARY TO -- RARITAN RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 299 CU FT/S (8.47 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 10900 CU FT/S (309 CU M/S)
MINIMUM 7.5 CU FT/S (0.21 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1924-75
DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 1600 | 910 | 608 | 389 | 291 | 228 | 178 | 138 | 104 | 74.9 | 50.3 | 37.4 | 25.9 | 21.3 | 18.0 |
| CU M/S | 45.3 | 25.8 | 17.2 | 11.0 | 8.24 | 6.46 | 5.04 | 3.91 | 2.95 | 2.12 | 1.42 | 1.06 | 0.733 | 0.603 | 0.510 |

LOW-FLOW FREQUENCY -- PERIOD 1925-75
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|----------|-----------|-----------|-----------|
| 3 | 38 (1.1) | 23 (0.65) | 17 (0.48) | 13 (0.37) |
| 7 | 42 (1.2) | 26 (0.74) | 19 (0.54) | 15 (0.42) |
| 30 | 55 (1.6) | 34 (0.96) | 26 (0.74) | 20 (0.57) |
| 90 | 85 (2.4) | 51 (1.4) | 38 (1.1) | 30 (0.85) |

01400500 RARITAN RIVER AT MANVILLE, NJ

LOCATION -- LAT 40 33 18, LONG 074 35 02, SOMERSET COUNTY, ON LEFT BANK AT DOWNSTREAM SIDE OF HIGHWAY BRIDGE AT MANVILLE, 1.4 MI (2.2 KM) UPSTREAM FROM MILLSTONE RIVER.
 DRAINAGE AREA -- 490 SQ-MI (1269 SQ-KM)
 TRIBUTARY TO -- RARITAN BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 742 CU FT/S (21.0 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 21600 CU FT/S (612 CU M/S)
 MINIMUM 17 CU FT/S (0.48 CU M/S)
 REMARKS -- REGULATION SINCE SEPTEMBER 1963 REDUCES FLOOD PEAKS AND AUGMENTS LOW FLOW. DIVERSION FROM 1921 TO FEBRUARY 1966 SIGNIFICANT AT LOW FLOW ONLY; DIVERSIONS SINCE FEBRUARY 1966 REDUCE MEDIUM AND HIGH FLOWS SOME SEASONS AND LOW FLOW ALWAYS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1904-63

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 4000 | 2450 | 1590 | 992 | 721 | 551 | 421 | 321 | 237 | 169 | 113 | 84.7 | 62.0 | 51.0 | 42.7 |
| CU M/S | 113 | 69.4 | 45.0 | 28.1 | 20.4 | 15.6 | 11.9 | 9.09 | 6.71 | 4.79 | 3.20 | 2.40 | 1.76 | 1.44 | 1.21 |

DURATION TABLE OF DAILY FLOW -- PERIOD 1964-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 4140 | 2410 | 1530 | 989 | 729 | 559 | 442 | 338 | 265 | 209 | 141 | 98.2 | 68.0 | 58.0 | 47.0 |
| CU M/S | 117 | 68.3 | 43.3 | 28.0 | 20.6 | 15.8 | 12.5 | 9.57 | 7.50 | 5.92 | 3.99 | 2.78 | 1.93 | 1.64 | 1.33 |

LOW-FLOW FREQUENCY -- PERIOD 1905-63

PERIOD OF
CONSECUTIVE
DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|----------|-----------|
| 3 | 87 (2.5) | 55 (1.6) | 43 (1.2) | 34 (0.96) |
| 7 | 96 (2.7) | 62 (1.8) | 48 (1.4) | 38 (1.1) |
| 30 | 120 (3.4) | 80 (2.3) | 62 (1.8) | 50 (1.4) |
| 90 | 190 (5.4) | 120 (3.4) | 94 (2.7) | 76 (2.2) |

LOW-FLOW FREQUENCY -- PERIOD 1964-75

PERIOD OF
CONSECUTIVE
DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|-----------|----------|
| 7 | 140 (4.0) | 48 (1.4) |

01400540 MILLSTONE RIVER NEAR MANALAPAN, NJ

LOCATION -- LAT 40 15 44, LONG 074 25 13, MONMOUTH COUNTY, AT BRIDGE ON STATE ROUTE 33, 1.3 MI (2.1 KM) WEST OF MANALAPAN, 5.5 MI (8.8 KM) EAST OF HIGHTSTOWN, AND 8.4 MI (13.5 KM) ABOVE ROCKY BROOK.
 DRAINAGE AREA -- 7.37 SQ-MI (19.09 SQ-KM)
 TRIBUTARY TO -- RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1960-64, 71-72

PERIOD OF
CONSECUTIVE
DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.5 (0.07) | 1.5 (0.04) |

01400560 MILLSTONE RIVER AT APPLGARTH, NJ

LOCATION -- LAT 40 16 28, LONG 074 28 22, MIDDLESEX COUNTY, AT BRIDGE ON PROSPECT PLAINS-APPLEGARTH ROAD, 0.3 MI (0.5 KM) SOUTH OF APPLGARTH, 2.7 MI (4.3 KM) EAST OF HIGHTSTOWN, AND 5.2 MI (8.4 KM) ABOVE ROCKY BROOK.
 DRAINAGE AREA -- 15.0 SQ-MI (38.9 SQ-KM)
 TRIBUTARY TO -- RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1960-64, 71-72

PERIOD OF
CONSECUTIVE
DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.4 (0.07) | 1.2 (0.03) |

01400580 MILLSTONE RIVER AT HIGHTSTOWN, NJ

LOCATION -- LAT 40 17 25, LONG 074 31 21, MERCER COUNTY, AT BRIDGE ON U.S. ROUTE 130, 1.3 MI (2.1 KM) ABOVE ROCKY BROOK, 1.4 MI (2.3 KM) NORTH OF HIGHTSTOWN, AND 1.4 MI (2.3 KM) SOUTH OF CRANBURY.
DRAINAGE AREA -- 19.7 SQ-MI (51.0 SQ-KM)
TRIBUTARY TO -- RARITAN RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1960-64, 69-74
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.3 (0.09) | 1.6 (0.05) |

01400593 ROCKY BROOK AT HIGHTSTOWN, NJ

LOCATION -- LAT 40 15 40, LONG 074 30 52, MERCER COUNTY, AT BRIDGE ON FIRST ROAD DOWNSTREAM FROM NEW JERSEY TURNPIKE, 0.8 MI (1.3 KM) SOUTHEAST OF HIGHTSTOWN, AND 2.7 MI (4.3 KM) UPSTREAM FROM MOUTH.
DRAINAGE AREA -- 9.58 SQ-MI (24.81 SQ-KM)
TRIBUTARY TO -- MILLSTONE RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01405400 AND 01408000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1965-72
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.3 (0.07) | 0.7 (0.02) |

01400596 PEDDIE BROOK AT HIGHTSTOWN, NJ

LOCATION -- LAT 40 15 36, LONG 074 31 08, MERCER COUNTY, AT BRIDGE ON ETRA ROAD, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH, AND 0.7 MI (1.1 KM) SOUTHEAST OF HIGHTSTOWN.
DRAINAGE AREA -- 3.07 SQ-MI (7.95 SQ-KM)
TRIBUTARY TO -- ROCKY BROOK
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1965-72
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.2 (0.03) | 0.7 (0.02) |

01400600 MILLSTONE RIVER AT LOCUST CORNER, NJ

LOCATION -- LAT 40 17 28, LONG 074 32 58, MERCER COUNTY, AT BRIDGE ON STATE ROUTE 535, 0.7 MI (1.1 KM) DOWNSTREAM FROM ROCKY BROOK, 0.8 MI (1.3 KM) NORTHEAST OF LOCUST CORNER, AND 2.0 MI (3.2 KM) NORTHWEST OF HIGHTSTOWN.
DRAINAGE AREA -- 37.5 SQ-MI (97.1 SQ-KM)
TRIBUTARY TO -- RARITAN RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64, 71-72
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 7.6 (0.21) | 4.3 (0.12) |

RARITAN RIVER BASIN

01400640 MILLSTONE RIVER NEAR GROVERS MILL, NJ

LOCATION -- LAT 40 18 48, LONG 074 35 22, MERCER COUNTY, AT BRIDGE ON CRANBURY NECK ROAD, 1.0 MI (1.6 KM) EAST OF GROVERS MILL, 1.8 MI (2.9 KM) UPSTREAM FROM CRANBURY BROOK, AND 1.8 MI (2.9 KM) EAST OF PRINCETON JUNCTION.

DRAINAGE AREA -- 42.6 SQ-MI (110.3 SQ-KM)

TRIBUTARY TO -- RARITAN RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000, 01408000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-65, 71-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 9.4 (0.27) | 4.7 (0.13) |

01400670 CRANBURY BROOK AT OLD CHURCH, NJ

LOCATION.-- LAT 40 17 24, LONG 074 27 22, MIDDLESEX COUNTY, AT BRIDGE ON FEDERAL ROAD, 0.4 MI (0.6 KM) EAST OF OLD CHURCH, 3.7 MI (6.0 KM) NORTHEAST OF HIGHTSTOWN, AND 4.2 MI (6.8 KM) UPSTREAM FROM DAM AT BRAINERD LAKE IN CRANBURY.

DRAINAGE AREA -- 3.69 SQ-MI (9.56 SQ-KM)

TRIBUTARY TO -- MILLSTONE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1960-64

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01400700 CRANBURY BROOK AT CRANBURY STATION, NJ

LOCATION -- LAT 40 18 28, LONG 074 29 13, MIDDLESEX COUNTY, AT HIGHWAY BRIDGE ON EAST SIDE OF TRACKS OF PENN CENTRAL RAILROAD, 0.5 MI (0.8 KM) NORTHEAST OF CRANBURY STATION, AND 1.6 MI (2.6 KM) UPSTREAM FROM DAM AT BRAINERD LAKE IN CRANBURY.

DRAINAGE AREA -- 9.56 SQ-MI (24.76 SQ-KM)

TRIBUTARY TO -- MILLSTONE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000, 01408000 AND 01464500. CORRELATIONS RATED FAIR, 7-DAY 2-YEAR VALUE ESTIMATED DUE TO WITHDRAWALS.

LOW-FLOW FREQUENCY -- PERIOD 1959-64, 71-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.9 (0.03) | 0.4 (0.01) |

01400730 MILLSTONE RIVER AT PLAINSBORO, NJ

LOCATION -- LAT 40 19 27, LONG 074 36 51, MERCER COUNTY, ON LEFT BANK, 30 FT (10 M) UPSTREAM FROM BRIDGE ON PENN CENTRAL RAILROAD, 100 FT (30 M) DOWNSTREAM FROM CRANBURY BROOK, 0.2 MI (4.3 KM) UPSTREAM FROM BEAR BROOK, AND 0.9 MI (1.4 KM) SOUTHWEST OF PLAINSBORO.
 DRAINAGE AREA -- 65.8 SQ-MI (170.4 SQ-KM)
 TRIBUTARY TO -- RARITAN RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 99.2 CU FT/S (2.81 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 3480 CU FT/S (98.5 CU M/S)
 MINIMUM 1.9 CU FT/S (0.05 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1965-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 467 | 293 | 197 | 128 | 100 | 79.9 | 64.9 | 53.4 | 43.2 | 31.2 | 21.0 | 15.6 | 9.10 | 4.37 | 3.28 |
| CU M/S | 13.2 | 8.3 | 5.58 | 3.62 | 2.83 | 2.26 | 1.84 | 1.51 | 1.22 | 0.884 | 0.595 | 0.442 | 0.258 | 0.124 | 0.093 |

LOW-FLOW FREQUENCY -- PERIOD 1966-75

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|------------|------------|------------|
| 3 | 14 (0.40) | 6.9 (0.20) | 4.2 (0.12) | 2.6 (0.07) |
| 7 | 16 (0.45) | 7.9 (0.22) | 4.7 (0.13) | 2.9 (0.08) |
| 30 | 23 (0.65) | 11 (0.31) | 6.9 (0.20) | 4.3 (0.12) |
| 90 | 37 (1.0) | 20 (0.57) | 13 (0.37) | 8.7 (0.25) |

01400750 BEAR BROOK NEAR HICKORY CORNER, NJ

LOCATION -- LAT 40 16 01, LONG 074 34 45, MERCER COUNTY, AT BRIDGE ON DUTCH NECK ROAD, 0.8 MI (1.3 KM) ABOVE LITTLE BEAR BROOK, AND 1.3 MI (2.1 KM) SOUTHWEST OF HICKORY CORNER.
 DRAINAGE AREA -- 3.46 SQ-MI (8.96 SQ-KM)
 TRIBUTARY TO -- MILLSTONE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000 AND 01464500.
 CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1960-65

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01400770 LITTLE BEAR BROOK AT HICKORY CORNER, NJ

LOCATION -- LAT 40 16 05, LONG 074 33 57, MERCER COUNTY, AT BRIDGE ON DUTCH NECK ROAD, 0.5 MI (0.8 KM) SOUTHWEST OF HICKORY CORNER, 0.8 MI (1.3 KM) UPSTREAM FROM MOUTH, AND 2.3 MI (3.7 KM) WEST OF HIGHTSTOWN.
 DRAINAGE AREA -- 1.88 SQ-MI (4.87 SQ-KM)
 TRIBUTARY TO -- BEAR BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000, 01408000 AND 01464500.
 CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1960-64

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01400800 BEAR BROOK NEAR GROVERS MILL, NJ

LOCATION -- LAT 40 17 51, LONG 074 35 42, MERCER COUNTY, AT HIGHWAY BRIDGE ON RABBIT HILL ROAD, 1.5 MI (2.4 KM) SOUTHEAST OF GROVERS MILL, 2.3 MI (3.7 KM) UPSTREAM FROM MOUTH, AND 4.2 MI (6.8 KM) NORTHWEST OF HIGHTSTOWN.
 DRAINAGE AREA -- 9.52 SQ-MI (24.66 SQ-KM)
 TRIBUTARY TO -- MILLSTONE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000, 01408000 AND 01464500.
 CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.7 (0.02) | 0.4 (0.01) |

01400810 BEAR BROOK AT PRINCETON JUNCTION, NJ

LOCATION -- LAT 40 19 21, LONG 074 37 00, MERCER COUNTY, AT PENN CENTRAL RAILROAD BRIDGE, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH, AND 0.7 MI (1.1 KM) NORTHEAST OF PRINCETON JUNCTION.

DRAINAGE AREA -- 12.4 SQ-MI (32.1 SQ-KM)

TRIBUTARY TO -- MILLSTONE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1962-67, 71-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.1 (0.03) | 0.4 (0.01) |

01400820 MILLSTONE RIVER AT PRINCETON JUNCTION, NJ

LOCATION -- LAT 40 19 28, LONG 074 37 22, MERCER COUNTY, 100 FT (30 M) EAST OF PRIVATE ROAD ON PROPERTY OF RCA'S DAVID SARNOFF RESEARCH CENTER, 0.3 MI (0.5 KM) BELOW BEAR BROOK, AND 0.4 MI (0.6 KM) NORTH OF PENN CENTRAL RAILROAD STATION AT PRINCETON JUNCTION.

DRAINAGE AREA -- 78.5 SQ-MI (203.3 SQ-KM)

TRIBUTARY TO -- RARITAN RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOWEST BASE FLOW MEASUREMENT MADE DURING PERIOD 1960-61: 7/7/60, 61.8 CU FT/S (1.75 CU M/S). NO USABLE CORRELATION FOUND.

01400850 WOODSVILLE BROOK AT WOODSVILLE, NJ

LOCATION -- LAT 40 22 37, LONG 074 49 33, MERCER COUNTY, ON LEFT BANK AT BRIDGE ON SECONDARY ROAD, 0.3 MI (0.5 KM) SOUTHEAST OF WOODSVILLE, 0.8 MI (1.3 KM) UPSTREAM FROM MOUTH, AND 3.4 MI (5.5 KM) WEST OF HOPEWELL.

DRAINAGE AREA -- 1.78 SQ-MI (4.61 SQ-KM)

TRIBUTARY TO -- STONY BROOK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1957-59, 65-73

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01400900 STONY BROOK AT GLENMOORE, NJ

LOCATION -- LAT 40 21 55, LONG 074 47 14, MERCER COUNTY, AT HIGHWAY BRIDGE ON SPUR STATE ROUTE 518, 200 FT (60 M) EAST OF TRACKS OF READING RAILROAD AT GLENMOORE, AND 2.0 MI (3.2 KM) SOUTHWEST OF HOPEWELL.

DRAINAGE AREA -- 17.0 SQ-MI (44.0 SQ-KM)

TRIBUTARY TO -- MILLSTONE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000 AND 01464500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1957-64, 71

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.3 (0.01) | 0.1 (0.00) |

01400930 BALDWIN CREEK AT PENNINGTON, NJ

LOCATION -- LAT 40 20 18, LONG 074 47 50, MERCER COUNTY, AT BRIDGE ON STATE ROUTE 31, 0.8 MI (1.3 KM) NORTH OF PENNINGTON, 0.9 MI (1.4 KM) ABOVE BALDWIN LAKE DAM, AND 1.2 MI (1.9 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 1.99 SQ-MI (5.15 SQ-KM)
 TRIBUTARY TO -- STONY BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000 AND 01464500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1957-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01400932 BALDWIN CREEK AT BALDWIN LAKE, NEAR PENNINGTON, NJ

LOCATION -- LAT 40 20 26, LONG 074 46 48, MERCER COUNTY, ON RIGHT BANK 200 FT (60 M) UPSTREAM FROM EARTHFILL DAM, 1,000 FT (300 M) UPSTREAM FROM MOUTH, AND 1.1 MI (1.8 KM) NORTHEAST OF PENNINGTON.
 DRAINAGE AREA -- 2.52 SQ-MI (6.53 SQ-KM)
 TRIBUTARY TO -- STONY BROOK
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 2.73 CU FT/S (0.077 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 115 CU FT/S (3.26 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- REGULATION REDUCES FLOOD PEAKS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1963-70
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | NO FLOW ABOUT |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| CU FT/S | 19.0 | 11.0 | 5.84 | 3.14 | 2.10 | 1.36 | 0.896 | 0.550 | 0.190 | 0.017 | 0.008 | 7% OF DAYS |
| CU M/S | 0.538 | 0.312 | 0.165 | 0.089 | 0.059 | 0.039 | 0.025 | 0.016 | 0.005 | 0.000 | 0.000 | IN PERIOD. |

LOW-FLOW FREQUENCY -- PERIOD 1964-70
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01400947 STONY BROOK AT PENNINGTON, NJ

LOCATION -- LAT 40 19 50, LONG 074 46 05, MERCER COUNTY, ON LEFT BANK 25 FT (8 M) ABOVE DAM ON STONY BROOK, 0.8 MI (1.3 KM) UPSTREAM FROM HARTS BROOK, 1.3 MI (2.1 KM) EAST OF PENNINGTON, AND 1.4 MI (2.3 KM) DOWNSTREAM FROM BALDWIN CREEK.
 DRAINAGE AREA -- 26.7 SQ-MI (69.2 SQ-KM)
 TRIBUTARY TO -- MILLSTONE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000 AND 01464500. CORRELATION RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1965-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.4 (0.01) | 0.1 (0.00) |

01400953 HONEY BRANCH NEAR PENNINGTON, NJ

LOCATION -- LAT 40 21 27, LONG 074 45 58, MERCER COUNTY, ON RIGHT BANK 50 FT (15 M) UPSTREAM FROM WARGO ROAD BRIDGE, 2.2 MI (3.5 KM) UPSTREAM FROM MOUTH, AND 2.5 MI (4.0 KM) NORTHEAST OF PENNINGTON.
 DRAINAGE AREA -- 0.70 SQ-MI (1.81 SQ-KM)
 TRIBUTARY TO -- STONY BROOK
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 1.24 CU FT/S (0.035 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 126 CU FT/S (3.57 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1968-74

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | NO FLOW ABOUT |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| CU FT/S | 11.3 | 5.27 | 2.440 | 1.04 | 0.626 | 0.398 | 0.254 | 0.153 | 0.076 | 0.031 | 0.007 | 8% OF DAYS |
| CU M/S | 0.320 | 0.149 | 0.069 | 0.029 | 0.018 | 0.011 | 0.007 | 0.004 | 0.002 | 0.001 | 0.000 | IN PERIOD. |

LOW-FLOW FREQUENCY -- PERIOD 1968-74

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|----|------------|------------|
| 30 | 0.0 (0.00) | 0.0 (0.00) |

01400970 HONEY BRANCH NEAR ROSEDALE, NJ

LOCATION -- LAT 40 20 26, LONG 074 44 39, MERCER COUNTY, AT BRIDGE ON ELM RIDGE ROAD, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH, 1.2 MI (1.9 KM) WEST OF ROSEDALE, AND 2.0 MI (3.2 KM) SOUTH OF MOUNT ROSE.
 DRAINAGE AREA -- 3.83 SQ-MI (9.92 SQ-KM)
 TRIBUTARY TO -- STONY BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1957-59, 71-72

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01401000 STONY BROOK AT PRINCETON, NJ

LOCATION -- LAT 40 19 59, LONG 074 40 56, MERCER COUNTY, ON RIGHT BANK 12 FT (4 M) DOWNSTREAM FROM BRIDGE ON U.S. ROUTE 206, 1.6 MI (2.6 KM) SOUTHWEST OF PRINCETON, AND 4.0 MI (6.4 KM) UPSTREAM FROM CARNEGIE LAKE.
 DRAINAGE AREA -- 44.5 SQ-MI (115.3 SQ-KM)
 TRIBUTARY TO -- MILLSTONE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 63.4 CU FT/S (1.80 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 3410 CU FT/S (96.6 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- REGULATION SINCE JULY 1959 REDUCES FLOOD PEAKS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1954-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 474 | 245 | 136 | 73.5 | 48.3 | 32.6 | 21.8 | 13.8 | 7.41 | 3.76 | 1.55 | 0.830 | 0.336 | 0.181 | 0.110 |
| CU M/S | 13.4 | 6.94 | 3.85 | 2.08 | 1.37 | 0.923 | 0.617 | 0.391 | 0.210 | 0.106 | 0.044 | 0.024 | 0.010 | 0.005 | 0.003 |

LOW-FLOW FREQUENCY -- PERIOD 1955-75

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 0.6 (0.02) | 0.2 (0.01) | 0.1 (0.00) | 0.0 (0.00) |
| 7 | 0.8 (0.02) | 0.2 (0.01) | 0.1 (0.00) | 0.0 (0.00) |
| 30 | 1.7 (0.05) | 0.6 (0.02) | 0.4 (0.01) | 0.2 (0.01) |
| 90 | 5.4 (0.15) | 2.3 (0.07) | 1.4 (0.04) | 0.9 (0.03) |

01401100 STONY BROOK AT CLARKSVILLE, NJ

LOCATION -- LAT 40 18 34, LONG 074 40 52, MERCER COUNTY, AT HIGHWAY BRIDGE ON STATE ROUTE 533, 600 FT (180 M) UPSTREAM FROM DUCK POND RUN, 0.9 MI (1.4 KM) NORTH OF CLARKSVILLE, AND 2.7 MI (4.3 KM) SOUTHWEST OF PENNS NECK.
 DRAINAGE AREA -- 46.5 SQ-MI (120.4 SQ-KM)
 TRIBUTARY TO -- MILLSTONE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000 AND 01464500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1959-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 1.3 (0.04) | 0.2 (0.01) |

01401200 DUCK POND RUN AT CLARKSVILLE, NJ

LOCATION -- LAT 40 18 24, LONG 074 40 06, MERCER COUNTY, AT BRIDGE ON U.S. ROUTE 1, 0.7 MI (1.1 KM) ABOVE STONY BROOK, 0.9 MI (1.4 KM) NORTHEAST OF CLARKSVILLE, AND 3.5 MI (5.6 KM) NORTHEAST OF LAWRENCEVILLE.
 DRAINAGE AREA -- 5.21 SQ-MI (13.49 SQ-KM)
 TRIBUTARY TO -- DELAWARE AND RARITAN CANAL
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000, 01408000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1954-55, 60-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.3 (0.01) | 0.1 (0.00) |

01401301 MILLSTONE RIVER AT CARNEGIE LAKE, AT PRINCETON, NJ

LOCATION -- LAT 40 22 10, LONG 074 37 20, MIDDLESEX COUNTY, AT RIGHT END OF CARNEGIE LAKE DAM, 2.5 MI (4.0 KM) NORTHEAST OF PRINCETON.
 DRAINAGE AREA -- 159 SQ-MI (412 SQ-KM)
 TRIBUTARY TO -- RARITAN RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000 AND 01402000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1972-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|-----------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 23 (0.65) | 8.5 (0.24) |

01401500 MILLSTONE RIVER NEAR KINGSTON, NJ

LOCATION -- LAT 40 23 05, LONG 074 37 29, MIDDLESEX COUNTY, ON LEFT BANK AT PRINCETON SEWAGE DISPOSAL PLANT, 0.8 MI (1.3 KM) NORTH OF KINGSTON, 0.8 MI (1.3 KM) DOWNSTREAM FROM HEATHCOTE BROOK, AND 1.1 MI (1.8 KM) DOWNSTREAM FROM CARNEGIE LAKE DAM.

DRAINAGE AREA -- 171 SQ-MI (443 SQ-KM)

TRIBUTARY TO -- RARITAN RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 239 CU FT/S (6.77 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 6800 CU FT/S (193 CU M/S)

MINIMUM 2.0 CU FT/S (0.06 CU M/S)

REMARKS -- REGULATION REDUCES FLOOD PEAKS. DIVERSIONS AND INFLOW SIGNIFICANT AT ALL FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1934-49

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 1230 | 746 | 491 | 312 | 235 | 183 | 146 | 118 | 94.9 | 73.6 | 47.3 | 29.8 | 15.6 | 8.60 | 5.77 |
| CU M/S | 34.8 | 21.1 | 13.9 | 8.84 | 6.66 | 5.18 | 4.13 | 3.34 | 2.69 | 2.08 | 1.34 | 0.844 | 0.442 | 0.244 | 0.163 |

LOW-FLOW FREQUENCY -- PERIOD 1935-49

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|------------|------------|
| 3 | 26 (0.74) | 10 (0.28) | 5.6 (0.16) | 3.3 (0.09) |
| 7 | 32 (0.91) | 12 (0.34) | 6.9 (0.20) | 4.0 (0.11) |
| 30 | 50 (1.4) | 24 (0.68) | 14 (0.40) | 8.8 (0.25) |
| 90 | 85 (2.4) | 53 (1.5) | 41 (1.2) | 33 (0.93) |

01401520 BEDEN BROOK NEAR HOPEWELL, NJ

LOCATION -- LAT 40 23 02, LONG 074 44 28, MERCER COUNTY, AT BRIDGE ON AUNT MOLLY ROAD, 0.8 MI (1.3 KM) UPSTREAM FROM PROVINCE LINE ROAD, 1.1 MI (1.8 KM) SOUTHEAST OF HOPEWELL, AND 2.6 MI (4.2 KM) SOUTHWEST OF BLAWENBURG.

DRAINAGE AREA -- 6.67 SQ-MI (17.28 SQ-KM)

TRIBUTARY TO -- MILLSTONE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1965-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.1 (0.00) |

01401590 ROCK BROOK AT BLAWENBURG, NJ

LOCATION -- LAT 40 24 40, LONG 074 42 10, SOMERSET COUNTY, AT BRIDGE ON GREAT ROAD, 0.3 MI (0.5 KM) NORTH OF BLAWENBURG, 1.7 MI (2.7 KM) UPSTREAM FROM MOUTH, AND 3.7 MI (6.0 KM) WEST OF ROCKY HILL.

DRAINAGE AREA -- 8.02 SQ-MI (20.77 SQ-KM)

TRIBUTARY TO -- BEDEN BROOK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1962-67, 71-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01401600 BEDEN BROOK NEAR ROCKY HILL, NJ

LOCATION -- LAT 40 24 52, LONG 074 39 02, SOMERSET COUNTY, AT BRIDGE ON U.S. ROUTE 206 AT STATE ROUTE 533, 0.7 MI (1.1 KM) UPSTREAM FROM PIKE RUN, 1.2 MI (1.9 KM) NORTHWEST OF ROCKY HILL, AND 4.6 MI (7.4 KM) NORTH OF PRINCETON.
 DRAINAGE AREA -- 27.0 SQ-MI (69.9 SQ-KM)
 TRIBUTARY TO -- MILLSTONE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000, 01408000 AND 01464500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1959-65, 71-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.0 (0.03) | 0.3 (0.01) |

01401700 PIKE RUN NEAR ROCKY HILL, NJ

LOCATION -- LAT 40 25 12, LONG 074 38 28, SOMERSET COUNTY, AT HIGHWAY BRIDGE ON STATE ROUTE 533, 600 FT (180 M) UPSTREAM FROM MOUTH, 1.4 MI (2.3 KM) NORTH OF ROCKY HILL, AND 5.0 MI (8.0 KM) NORTH OF PRINCETON.
 DRAINAGE AREA -- 22.2 SQ-MI (57.5 SQ-KM)
 TRIBUTARY TO -- BEDEN BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01398000, 01401000, 01408000 AND 01464500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1959-63, 71-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.7 (0.02) | 0.2 (0.01) |

01401800 TEN MILE RUN NEAR BLACKWELLS MILLS, NJ

LOCATION -- LAT 40 27 23, LONG 074 35 09, SOMERSET COUNTY, AT BRIDGE ON CANAL ROAD, 0.4 MI (0.6 KM) UPSTREAM FROM MOUTH, 1.5 MI (2.4 KM) SOUTHWEST OF BLACKWELLS MILLS, AND 2.9 MI (4.7 KM) NORTHWEST OF FRANKLIN PARK.
 DRAINAGE AREA -- 4.36 SQ-MI (11.29 SQ-KM)
 TRIBUTARY TO -- MILLSTONE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000 AND 01464500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1960-64, 71-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.4 (0.01) | 0.2 (0.01) |

01401900 SIX MILE RUN AT BLACKWELLS MILLS, NJ

LOCATION -- LAT 40 28 21, LONG 074 34 17, SOMERSET COUNTY, AT BRIDGE ON CANAL ROAD, 300 FT (90 M) UPSTREAM FROM MOUTH, 0.2 MI (0.3 KM) SOUTH OF BLACKWELLS MILLS, AND 2.0 MI (3.2 KM) SOUTHEAST OF EAST MILLSTONE.
 DRAINAGE AREA -- 16.1 SQ-MI (41.7 SQ-KM)
 TRIBUTARY TO -- MILLSTONE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000, 01408000 AND 01464500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1960-67, 71-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.8 (0.02) | 0.3 (0.01) |

01402000 MILLSTONE RIVER AT BLACKWELLS MILLS, NJ

LOCATION -- LAT 40 28 30, LONG 074 34 34, SOMERSET COUNTY, ON LEFT BANK 30 FT (10 M) DOWNSTREAM FROM HIGHWAY BRIDGE AT BLACKWELLS MILLS, AND 0.3 MI (0.5 KM) DOWNSTREAM FROM SIX MILE RUN.

DRAINAGE AREA -- 258 SQ-MI (668 SQ-KM)

TRIBUTARY TO -- RARITAN RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 373 CU FT/S (10.6 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 17400 CU FT/S (49.3 CU M/S)

MINIMUM 5.0 CU FT/S (0.14 CU M/S)

REMARKS -- REGULATION REDUCES FLOOD PEAKS. DIVERSIONS AND INFLOW SIGNIFICANT AT ALL FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1922-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 2160 | 1290 | 805 | 473 | 341 | 260 | 200 | 151 | 117 | 88.0 | 58.9 | 43.6 | 28.4 | 21.0 | 17.0 |
| CU M/S | 61.2 | 36.5 | 22.8 | 13.4 | 9.66 | 7.36 | 5.66 | 4.28 | 3.31 | 2.49 | 1.67 | 1.23 | 0.804 | 0.595 | 0.481 |

LOW-FLOW FREQUENCY -- PERIOD 1923-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|----------|-----------|-----------|-----------|
| 3 | 36 (1.0) | 20 (0.57) | 14 (0.40) | 11 (0.31) |
| 7 | 42 (1.2) | 23 (0.65) | 17 (0.48) | 12 (0.34) |
| 30 | 60 (1.7) | 35 (0.99) | 25 (0.71) | 18 (0.51) |
| 90 | 97 (2.7) | 61 (1.7) | 47 (1.3) | 38 (1.1) |

01402590 ROYCE BROOK TRIBUTARY AT FRANKFORT, NJ

LOCATION -- LAT 40 30 21, LONG 074 40 24, SOMERSET COUNTY, ON LEFT BANK 20 FT (6 M) UPSTREAM FROM BRIDGE ON BEEKMAN LANE, 0.6 MI (1.0 KM) EAST OF FRANKFORT, AND 1.6 MI (2.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 0.29 SQ-MI (0.75 SQ-KM)

TRIBUTARY TO -- ROYCE BROOK

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

LOW-FLOW FREQUENCY -- PERIOD 1970-74

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|----|------------|------------|
| 90 | 0.0 (0.00) | 0.0 (0.00) |

01402600 ROYCE BROOK TRIBUTARY NEAR BELLE MEAD, NJ

LOCATION -- LAT 40 29 56, LONG 074 39 05, SOMERSET COUNTY, ON RIGHT BANK 25 FT (8 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 514, 1,200 FT (370 M) UPSTREAM FROM MOUTH, AND 2.0 MI (3.2 KM) NORTH OF BELLE MEAD.

DRAINAGE AREA -- 1.20 SQ-MI (3.11 SQ-KM)

TRIBUTARY TO -- ROYCE BROOK

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 2.39 CF FT/S (0.068 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 160 CU FT/S (4.53 CU M/S)

MINIMUM 0.0 CU FT/S (0.00 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1967-74

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 21.5 | 10.1 | 4.92 | 2.31 | 1.45 | 0.982 | 0.659 | 0.396 | 0.226 | 0.123 | 0.045 | 0.007 |
| CU M/S | 0.609 | 0.286 | 0.139 | 0.065 | 0.041 | 0.028 | 0.019 | 0.011 | 0.006 | 0.003 | 0.001 | 0.000 |

LOW-FLOW FREQUENCY -- PERIOD 1968-74

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|----|------------|------------|
| 30 | 0.0 (0.00) | 0.0 (0.00) |

RARITAN RIVER BASIN

01402700 ROYCE BROOK AT MANVILLE, NJ

LOCATION -- LAT 40 31 30, LONG 074 36 44, SOMERSET COUNTY, AT BRIDGE ON SUNNYMEADE ROAD, 1.6 MI (2.6 KM) SOUTHWEST OF MANVILLE, AND 2.1 MI (3.4 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 11.7 SQ-MI (30.3 SQ-KM)
 TRIBUTARY TO -- MILLSTONE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01399500, 01401000 AND 01464500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1960-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01403060 RARITAN RIVER BELOW CALCO DAM, AT BOUND BROOK, NJ

LOCATION -- LAT 40 33 05, LONG 074 32 54, SOMERSET COUNTY, ON RIGHT BANK 1,000 FT (300 M) DOWNSTREAM FROM CALCO DAM AND CUCKOLD BROOK, 1.2 MI (1.9 KM) DOWNSTREAM FROM MILLSTONE RIVER, AND 1.2 MI (1.9 KM) SOUTHWEST OF BOUND BROOK.
 DRAINAGE AREA -- 785 SQ-MI (2033 SQ-KM)
 TRIBUTARY TO -- RARITAN BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 1256 CU FT/S (35.6 CU M/S), ADJUSTED FOR REGULATION AND DIVERSION.
 DAILY DISCHARGE EXTREMES -- MAXIMUM 34100 CU FT/S (966 CU M/S)
 MINIMUM 37 CU FT/S (1.1 CU M/S)
 REMARKS -- DIVERSIONS AND REGULATION SIGNIFICANT AT ALL FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1904-08, 45-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 6910 | 4160 | 2580 | 1570 | 1140 | 860 | 672 | 517 | 386 | 269 | 175 | 129 | 93.5 | 73.0 | 59.8 |
| CU M/S | 196 | 118 | 73.1 | 44.5 | 32.3 | 24.4 | 19.0 | 14.6 | 10.9 | 7.62 | 4.96 | 3.65 | 2.65 | 2.07 | 1.69 |

LOW-FLOW FREQUENCY -- PERIOD 1905-09, 46-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 130 (3.7) | 79 (2.2) | 59 (1.7) | 46 (1.3) |
| 7 | 150 (4.2) | 89 (2.5) | 66 (1.9) | 52 (1.5) |
| 30 | 190 (5.4) | 120 (3.4) | 92 (2.6) | 73 (2.1) |
| 90 | 320 (9.1) | 190 (5.4) | 140 (4.0) | 110 (3.1) |

01403100 EAST BRANCH MIDDLE BROOK AT MARTINSVILLE, NJ

LOCATION -- LAT 40 35 37, LONG 074 32 43, SOMERSET COUNTY, AT BRIDGE ON VOSSELLER AVENUE, 0.9 MI (1.4 KM) SOUTHEAST OF MARTINSVILLE, 1.2 MI (1.9 KM) UPSTREAM FROM WEST BRANCH, AND 2.3 MI (3.7 KM) NORTH OF BOUND BROOK.
 DRAINAGE AREA -- 8.45 SQ-MI (21.89 SQ-KM)
 TRIBUTARY TO -- MIDDLE BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01396500 AND 01400000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.4 (0.01) | 0.1 (0.00) |

01403400 GREEN BROOK AT SEELEY MILLS, NJ

LOCATION -- LAT 40 39 53, LONG 074 24 10, UNION COUNTY, AT RUINS OF SEELEY MILLS, 0.1 MI (0.2 KM) DOWNSTREAM FROM BLUE BROOK, 0.5 MI (0.8 KM) NORTHWEST OF INTERSECTION OF WESTFIELD ROAD AND U.S. ROUTE 22 IN SCOTCH PLAINS, AND 2.5 MI (4.0 KM) SOUTHWEST OF BERKELEY HEIGHTS.
 DRAINAGE AREA -- 6.23 SQ-MI (16.14 SQ-KM)
 TRIBUTARY TO -- BOUND BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01379500 AND 01396500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.8 (0.02) | 0.4 (0.01) |

01403500 GREEN BROOK AT PLAINFIELD, NJ

LOCATION -- LAT 40 36 53, LONG 074 25 55, UNION COUNTY, ON LEFT BANK 20 FT (6 M) DOWNSTREAM FROM SYCAMORE AVENUE BRIDGE IN PLAINFIELD, AND 1.0 MI (1.6 KM) UPSTREAM FROM STONY BROOK.

DRAINAGE AREA -- 9.75 SQ-MI (25.25 SQ-KM)

TRIBUTARY TO -- BOUND BROOK

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 12.5 CU FT/S (0.353 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 905 CU FT/S (25.6 CU M/S)

MINIMUM 0.0 CU FT/S (0.00 CU M/S)

REMARKS -- DIVERSION FROM WELLS VERY SIGNIFICANT AT LOW AND MEDIUM FLOWS. SOME OVERFLOW OUT OF BASIN POSSIBLE AT EXTREME HIGH FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1939-75
DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 88.5 | 47.7 | 27.3 | 15.6 | 10.5 | 7.34 | 5.31 | 3.71 | 2.36 | 1.44 | 0.683 | 0.358 | 0.017 |
| CU M/S | 2.51 | 1.35 | 0.773 | 0.442 | 0.297 | 0.208 | 0.150 | 0.105 | 0.067 | 0.041 | 0.019 | 0.010 | 0.000 |

LOW-FLOW FREQUENCY -- PERIOD 1940-75
PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 0.3 (0.01) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 7 | 0.4 (0.01) | 0.1 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 30 | 1.1 (0.03) | 0.5 (0.01) | 0.2 (0.01) | 0.1 (0.00) |
| 90 | 2.7 (0.07) | 1.5 (0.04) | 1.1 (0.03) | 0.8 (0.02) |

01403540 STONY BROOK AT WATCHUNG, NJ

LOCATION -- LAT 40 38 12, LONG 074 27 06, SOMERSET COUNTY, ON RIGHT BANK AT WATCHUNG BOROUGH ADMINISTRATION BUILDING, 150 FT (50 M) DOWNSTREAM FROM WATCHUNG AVENUE BRIDGE, AND 2.9 MI (4.7 KM) UPSTREAM FROM CONFLUENCE WITH GREEN BROOK.

DRAINAGE AREA -- 5.51 SQ-MI (14.27 SQ-KM)

TRIBUTARY TO -- GREEN BROOK

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01379000, 01396500, AND 01399500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1974-75
PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.5 (0.01) | 0.2 (0.01) |

01403900 BOUND BROOK AT MIDDLESEX, NJ

LOCATION -- LAT 40 35 06, LONG 074 30 29, SOMERSET COUNTY, ON RIGHT BANK ALONG GREEN BROOK ROAD, 110 FT (30 M) UPSTREAM FROM THE BRIDGE AND INTERSECTION WITH SEBRING HILL ROAD, 0.4 MI (0.6 KM) DOWNSTREAM OF MOUTH OF GREEN BROOK, AND 2.3 MI (3.7 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 48.4 SQ-MI (125.4 SQ-KM)

TRIBUTARY TO -- RARITAN RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500 AND 01408000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1972-75
PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.3 (0.07) | 0.9 (0.03) |

01404300 LAWRENCE BROOK AT OUTLET OF DAVIDSON'S MILL POND, NJ

LOCATION -- LAT 40 24 46, LONG 074 29 58, MIDDLESEX COUNTY, AT BRIDGE ON RIVA AVENUE, AT OUTLET OF DAVIDSON'S MILL POND, 0.6 MI (1.0 KM) UPSTREAM FROM OAKEYS BROOK.
 DRAINAGE AREA -- 12.2 SQ-MI (31.6 SQ-KM)
 TRIBUTARY TO -- RARITAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01400000, 01401000 AND 01405400. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.3 (0.07) | 0.9 (0.03) |

01404400 OAKEYS BROOK NEAR PATRICKS CORNER, NJ

LOCATION -- LAT 40 25 05, LONG 074 29 56, MIDDLESEX COUNTY, AT BRIDGE ON DAVIDSON'S MILL ROAD, 0.5 MI (0.8 KM) UPSTREAM FROM MOUTH, AND 1.2 MI (1.9 KM) WEST OF PATRICKS CORNER.
 DRAINAGE AREA -- 4.75 SQ-MI (12.30 SQ-KM)
 TRIBUTARY TO -- LAWRENCE BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000 AND 01405400. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.5 (0.01) | 0.2 (0.01) |

01404470 IRELAND BROOK AT PATRICKS CORNER, NJ

LOCATION -- LAT 40 25 13, LONG 074 29 05, MIDDLESEX COUNTY, AT BRIDGE ON RIVA AVENUE, 400 FT (120 M) UPSTREAM FROM MOUTH, AND 0.5 MI (0.8 KM) SOUTHWEST OF PATRICKS CORNER.
 DRAINAGE AREA -- 6.52 SQ-MI (16.89 SQ-KM)
 TRIBUTARY TO -- LAWRENCE BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01398000, 01401000 AND 01405400. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.5 (0.04) | 0.7 (0.02) |

01404700 BEAVERDAM BROOK NEAR PATRICKS CORNER, NJ

LOCATION -- LAT 40 25 37, LONG 074 27 16, MIDDLESEX COUNTY, AT BRIDGE ON FRESH PONDS ROAD, 0.8 MI (1.3 KM) UPSTREAM FROM MOUTH, AND 1.2 MI (1.9 KM) EAST OF PATRICKS CORNER.
 DRAINAGE AREA -- 1.51 SQ-MI (3.91 SQ-KM)
 TRIBUTARY TO -- LAWRENCE BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000, 01405400 AND 01408000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

RARITAN RIVER BASIN

01405000 LAWRENCE BROOK AT FARRINGTON DAM, NJ

LOCATION -- LAT 40 27 00, LONG 074 27 05, MIDDLESEX COUNTY, ON LEFT BANK 300 FT (90 M) UPSTREAM FROM FARRINGTON DAM, 0.7 MI (1.1 KM) SOUTHWEST OF MILLTOWN, AND 5.4 MI (8.7 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 34.4 SQ-MI (89.1 SQ-KM)
 TRIBUTARY TO -- RARITAN RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 39.2 CU FT/S (1.11 CU M/S), ADJUSTED FOR STORAGE.
 DAILY DISCHARGE EXTREMES -- MAXIMUM 2040 CU FT/S (57.8 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- REGULATION SIGNIFICANT AT ALL FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1961-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 216 | 129 | 81.1 | 49.7 | 36.6 | 29.5 | 23.8 | 19.3 | 16.5 | 13.2 | 8.61 | 4.50 | 0.359 | 0.320 | 0.299 |
| CU M/S | 6.12 | 3.65 | 2.30 | 1.41 | 1.04 | 0.835 | 0.674 | 0.547 | 0.467 | 0.374 | 0.244 | 0.127 | 0.010 | 0.009 | 0.008 |

LOW-FLOW FREQUENCY -- PERIOD 1962-75

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| PERIOD OF CONSECUTIVE DAYS | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----------------------------------|------------|------------|------------|------------|
| 3 | 2.5 (0.07) | 0.4 (0.01) | 0.1 (0.00) | 0.0 (0.00) |
| 7 | 3.0 (0.08) | 0.7 (0.02) | 0.3 (0.01) | 0.1 (0.00) |
| 30 | 9.5 (0.27) | 3.8 (0.11) | 1.8 (0.05) | 0.9 (0.03) |
| 90 | 13 (0.37) | 7.5 (0.21) | 5.3 (0.15) | 3.8 (0.11) |

01405300 MATCHAPONIX BROOK AT SPOTSWOOD, NJ

LOCATION -- LAT 40 22 52, LONG 074 22 51, MIDDLESEX COUNTY, ON RIGHT BANK 0.9 MI (1.4 KM) SOUTHEAST OF SPOTSWOOD, 1.1 MI (1.8 KM) UPSTREAM FROM CONFLUENCE WITH MANALAPAN BROOK, AND 2.3 MI (3.7 KM) SOUTHWEST OF OLD BRIDGE.
 DRAINAGE AREA -- 43.9 SQ-MI (113.7 SQ-KM)
 TRIBUTARY TO -- SOUTH RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 62.5 CU FT/S (1.77 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1480 CU FT/S (41.9 CU M/S)
 MINIMUM 2.5 CU FT/S (0.07 CU M/S)
 REMARKS -- OCCASIONAL REGULATION; PROBABLY NOT SIGNIFICANT. DIVERSION FROM WELLS MAY BE SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1958-67

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 320 | 180 | 125 | 78.6 | 61.3 | 51.0 | 43.2 | 35.2 | 27.5 | 19.7 | 12.0 | 8.35 | 5.45 | 4.71 | 4.30 |
| CU M/S | 9.06 | 5.10 | 3.54 | 2.23 | 1.74 | 1.44 | 1.22 | 0.997 | 0.779 | 0.558 | 0.340 | 0.236 | 0.154 | 0.133 | 0.122 |

LOW-FLOW FREQUENCY -- PERIOD 1958-67

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| PERIOD OF CONSECUTIVE DAYS | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----------------------------------|------------|------------|------------|------------|
| 3 | 6.2 (0.18) | 3.8 (0.11) | 3.0 (0.08) | 2.5 (0.07) |
| 7 | 6.9 (0.20) | 4.1 (0.12) | 3.2 (0.09) | 2.7 (0.07) |
| 30 | 12 (0.34) | 6.3 (0.18) | 4.6 (0.13) | 3.6 (0.10) |
| 90 | 19 (0.54) | 9.8 (0.28) | 6.8 (0.19) | 5.0 (0.14) |

01405400 MANALAPAN BROOK AT SPOTSWOOD, NJ

LOCATION -- LAT 40 23 22, LONG 074 23 27, MIDDLESEX COUNTY, ON RIGHT BANK OF DEVOE LAKE DAM IN SPOTSWOOD, 0.1 MI (0.2 KM) UPSTREAM FROM CEDAR BROOK, AND 0.6 MI (1.0 KM) UPSTREAM FROM CONFLUENCE WITH MATCHAPONIX BROOK.

DRAINAGE AREA -- 40.7 SQ-MI (105.4 SQ-KM)

TRIBUTARY TO -- SOUTH RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 66.3 CU FT/S (1.88 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 1390 CU FT/S (39.4 CU M/S)

MINIMUM 0.0 CU FT/S (0.00 CU M/S)

REMARKS -- REGULATION REDUCES FLOOD PEAKS AND IS SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1958-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 272 | 177 | 127 | 87.4 | 70.3 | 58.8 | 49.5 | 42.3 | 34.8 | 27.3 | 19.4 | 13.7 | 7.47 | 4.50 | 2.60 |
| CU M/S | 7.70 | 5.01 | 3.60 | 2.48 | 1.99 | 1.67 | 1.40 | 1.20 | 0.986 | 0.773 | 0.549 | 0.388 | 0.212 | 0.127 | 0.074 |

LOW-FLOW FREQUENCY -- PERIOD 1958-75

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|------------|------------|------------|
| 3 | 11 (0.31) | 4.6 (0.13) | 2.7 (0.08) | 1.6 (0.05) |
| 7 | 13 (0.37) | 6.4 (0.18) | 4.1 (0.12) | 2.7 (0.08) |
| 30 | 19 (0.54) | 10 (0.28) | 6.7 (0.19) | 4.7 (0.13) |
| 90 | 28 (0.79) | 16 (0.45) | 11 (0.31) | 8.2 (0.23) |

01405440 MANALAPAN BROOK AT BRIDGE STREET, AT SPOTSWOOD, NJ

LOCATION -- LAT 40 23 26, LONG 074 23 26, MIDDLESEX COUNTY, AT BRIDGE ON BRIDGE STREET IN SPOTSWOOD, 400 FT (120 M) BELOW DEVOE LAKE DAM.

DRAINAGE AREA -- 43.9 SQ-MI (113.7 SQ-KM)

TRIBUTARY TO -- SOUTH RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01400000, 01401000, 01405400 AND 01408000. CORRELATIONS RATED FAIR. FLOW REGULATED BY LAKES ABOVE SITE.

LOW-FLOW FREQUENCY -- PERIOD 1973-76

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 19 (0.53) | 9.8 (0.27) |

01405470 IRESICK BROOK AT EAST SPOTSWOOD, NJ

LOCATION -- LAT 40 23 35, LONG 074 21 36, MIDDLESEX COUNTY, AT BRIDGE ON ROUTE 527 IN EAST SPOTSWOOD, 0.6 MI (1.0 KM) UPSTREAM FROM MOUTH, AND 1.4 MI (2.3 KM) SOUTH OF OLD BRIDGE.

DRAINAGE AREA -- 2.29 SQ-MI (5.93 SQ-KM)

TRIBUTARY TO -- SOUTH RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000, 01405400 AND 01408000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1973-77

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01405500 SOUTH RIVER AT OLD BRIDGE, NJ

LOCATION -- LAT 40 24 22, LONG 074 22 08, MIDDLESEX COUNTY, ON RIGHT ABUTMENT OF DUHERNAL DAM, 0.6 MI (1.0 KM) SOUTH OF OLD BRIDGE, 2.3 MI (3.7 KM) UPSTREAM FROM DEEP RUN, AND 9.1 MI (14.6 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 94.6 SQ-MI (245.0 SQ-KM)
 TRIBUTARY TO -- RARITAN RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 139 CU FT/S (3.94 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 3740 CU FT/S (106 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- FLOW AFFECTED BY WELL PUMPAGE AND REGULATION OF LAKES.

DURATION TABLE OF DAILY FLOW -- PERIOD 1961-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 676 | 424 | 276 | 180 | 136 | 112 | 93.2 | 77.5 | 61.7 | 44.7 | 28.8 | 19.2 | 11.6 | 7.70 | 4.60 |
| CU M/S | 19.1 | 12.0 | 7.82 | 5.10 | 3.85 | 3.17 | 2.64 | 2.19 | 1.75 | 1.27 | 0.816 | 0.544 | 0.329 | 0.218 | 0.130 |

LOW-FLOW FREQUENCY -- PERIOD 1962-75

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|------------|------------|------------|
| 3 | 22 (0.62) | 8.7 (0.25) | 4.0 (0.11) | 1.8 (0.05) |
| 7 | 24 (0.68) | 9.6 (0.27) | 4.6 (0.13) | 2.2 (0.06) |
| 30 | 30 (0.85) | 15 (0.42) | 9.9 (0.28) | 6.6 (0.19) |
| 90 | 48 (1.4) | 26 (0.74) | 17 (0.48) | 12 (0.34) |

01406000 DEEP RUN NEAR BROWNTOWN, NJ

LOCATION -- LAT 40 22 30, LONG 074 18 14, MIDDLESEX COUNTY, ON RIGHT BANK 5 FT (2 M) UPSTREAM FROM HIGHWAY BRIDGE, 0.7 MI (1.1 KM) DOWNSTREAM FROM MIDDLESEX-MONMOUTH COUNTY LINE, AND 1.8 MI (2.9 KM) SOUTH OF BROWNTOWN.
 DRAINAGE AREA -- 8.07 SQ-MI (20.90 SQ-KM)
 TRIBUTARY TO -- SOUTH RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 14.0 CU FT/S (0.396 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 474 CU FT/S (13.4 CU M/S)
 MINIMUM 0.7 CU FT/S (0.02 CU M/S)
 REMARKS -- OCCASIONAL REGULATION; PROBABLY NOT SIGNIFICANT.

DURATION TABLE OF DAILY FLOW -- PERIOD 1933-40

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 75 | 41.1 | 26.5 | 17.4 | 13.7 | 11.3 | 9.57 | 7.51 | 5.65 | 3.99 | 2.53 | 1.78 | 1.22 | 1.00 | 0.900 |
| CU M/S | 2.12 | 1.16 | 0.750 | 0.493 | 0.388 | 0.320 | 0.271 | 0.213 | 0.160 | 0.113 | 0.072 | 0.050 | 0.035 | 0.028 | 0.025 |

LOW-FLOW FREQUENCY -- PERIOD 1934-40

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.4 (0.03) | 0.8 (0.02) |

ATLANTIC COASTAL BASINS (UPPER)

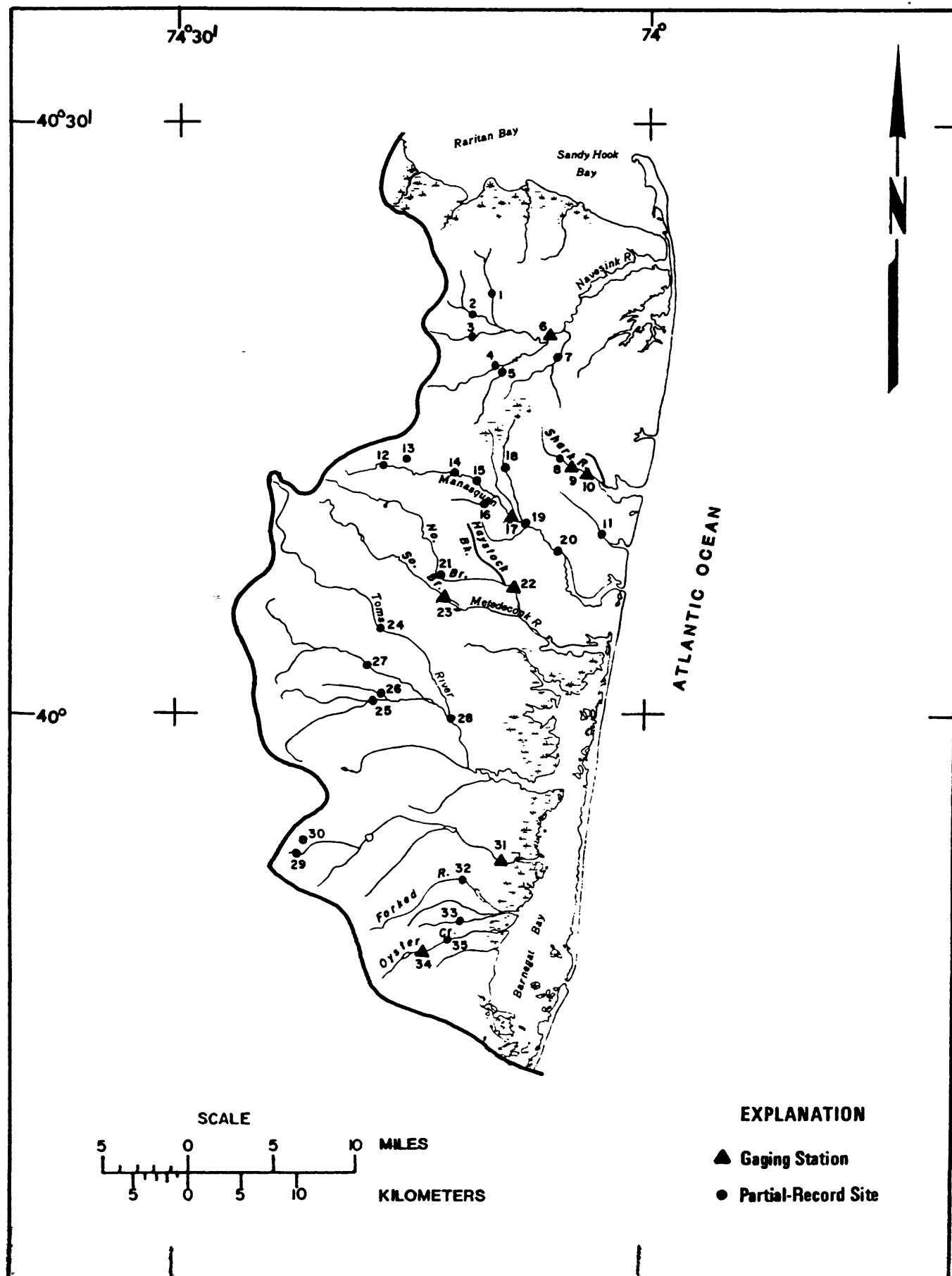


Figure 11.-- Map Segment 3 showing site locations in the upper part of the Atlantic Coastal basin

| MAP NO. | STATION NUMBER | STATION NAME | QUADRANGLE MAP 7.5 MINUTE SERIES | PAGE |
|---------------------------------|-------------------|--|-------------------------------------|------|
| ATLANTIC COASTAL BASINS (UPPER) | | | | |
| NAVESINK RIVER BASIN | | | | |
| SWIMMING RIVER BASIN: | | | | |
| 1 | 01407200 | HOP BROOK AT HOLMDEL----- | MARLBORO----- | 88 |
| 2 | 01407250 | WILLOW BROOK AT HOLMDEL----- | MARLBORO----- | 88 |
| 3 | 01407300 | BIG BROOK AT VANDERBURG----- | MARLBORO----- | 88 |
| 4 | 01407400 | YELLOW BROOK AT COLTS NECK----- | MARLBORO----- | 88 |
| 5 | 01407450 | MINE BROOK AT COLTS NECK----- | MARLBORO----- | 89 |
| 6 | 01407500 | SWIMMING RIVER NEAR RED BANK----- | LONG BRANCH----- | 89 |
| 7 | 01407520 | PINE BROOK AT TINTON FALLS----- | LONG BRANCH----- | 89 |
| SHARK RIVER BASIN | | | | |
| 8 | 01407700 | SHARK RIVER AT GLENDOLA----- | ASBURY PARK----- | 89 |
| 9 | 01407705 | SHARK RIVER NEAR NEPTUNE CITY----- | ASBURY PARK----- | 90 |
| 10 | 01407760 | JUMPING BROOK NEAR NEPTUNE CITY----- | ASBURY PARK----- | 90 |
| WRECK POND BROOK BASIN | | | | |
| 11 | 01407800 | WRECK POND BROOK NEAR SPRING LAKE----- | ASBURY PARK----- | 90 |
| MANASQUAN RIVER BASIN | | | | |
| 12 | 01407830 | MANASQUAN RIVER NEAR GEORGIA----- | ADELPHIA----- | 91 |
| 13 | 01407860 | DEBOIS CREEK AT ADELPHIA----- | ADELPHIA----- | 91 |
| 14 | 01407890 | MANASQUAN RIVER TRIBUTARY NO. 7 AT WEST FARMS----- | FARMINGDALE----- | 91 |
| 15 | 01407900 | MANASQUAN RIVER AT WEST FARMS----- | FARMINGDALE----- | 91 |
| 16 | 01407970 | MANASQUAN RIVER TRIBUTARY NEAR FARMINGDALE----- | FARMINGDALE----- | 92 |
| 17 | 01408000 | MANASQUAN RIVER AT SQUANKUM----- | FARMINGDALE----- | 92 |
| 18 | 01408015 | MINGAMAHONE BROOK AT FARMINGDALE----- | FARMINGDALE----- | 92 |
| 19 | 01408020 | MINGAMAHONE BROOK AT SQUANKUM----- | FARMINGDALE----- | 92 |
| 20 | 01408030 | MANASQUAN RIVER AT ALLENWOOD----- | ASBURY PARK----- | 93 |
| METEDECONK RIVER BASIN | | | | |
| 21 | 01408100 | NORTH BRANCH METEDECONK RIVER AT LAKEWOOD----- | LAKESWOOD----- | 93 |
| 22 | 01408120 | NORTH BRANCH METEDECONK RIVER NEAR LAKEWOOD----- | LAKESWOOD----- | 93 |
| 23 | 01408140 | SOUTH BRANCH METEDECONK RIVER AT LAKEWOOD----- | LAKESWOOD----- | 93 |
| TOMS RIVER BASIN | | | | |
| 24 | 01408300 | TOMS RIVER AT WHITESVILLE----- | LAKEHURST----- | 94 |
| 25 | 01408440 | UNION BRANCH AT LAKEHURST----- | LAKEHURST----- | 94 |
| 26 | 01408460 | MANAPAQUA BROOK AT LAKEHURST----- | LAKEHURST----- | 94 |
| 27 | 01408490 | RIDGEWAY BRANCH NEAR LAKEHURST----- | LAKEHURST----- | 94 |
| 28 | 01408500 | TOMS RIVER NEAR TOMS RIVER----- | TOMS RIVER----- | 95 |
| CEDAR CREEK BASIN | | | | |
| CEDAR CREEK: | | | | |
| CHAMBERLAIN BRANCH: | | | | |
| 29 | 01408800 | WEBBS MILL BRANCH NEAR WHITING----- | WHITING----- | 95 |
| 30 | 01408810 | WEBBS MILL BRANCH TRIBUTARY NEAR WHITING----- | WHITING----- | 95 |
| 31 | 01409000 | CEDAR CREEK AT LANOKA HARBOR----- | FORKED RIVER----- | 96 |
| FORKED RIVER BASIN | | | | |
| 32 | 01409050 | NORTH BRANCH FORKED RIVER NEAR FORKED RIVER----- | FORKED RIVER----- | 96 |
| 33 | 01409080 | SOUTH BRANCH FORKED RIVER NEAR FORKED RIVER----- | FORKED RIVER----- | 96 |
| OYSTER CREEK BASIN | | | | |
| 34 | 01409095 | OYSTER CREEK NEAR BROOKVILLE----- | BROOKVILLE----- | 97 |
| 35 | 01409100 | OYSTER CREEK NEAR WARETOWN----- | FORKED RIVER----- | 97 |

01407200 HOP BROOK AT HOLMDEL, NJ

LOCATION -- LAT 40 20 41, LONG 074 10 29, MONMOUTH COUNTY, AT BRIDGE ON STATE ROUTE 520, 0.5 MI (0.8 KM) EAST OF INTERSECTION WITH SOUTH STREET IN HOLMDEL, AND 1.7 MI (2.7 KM) DOWNSTREAM FROM BIG BROOK.
DRAINAGE AREA -- 5.72 SQ-MI (14.81 SQ-KM)
TRIBUTARY TO -- SWIMMING RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1969-74
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.7 (0.08) | 1.7 (0.05) |

01407250 WILLOW BROOK AT HOLMDEL, NJ

LOCATION -- LAT 40 20 17, LONG 074 11 14, MONMOUTH COUNTY, AT BRIDGE ON SOUTH STREET, 0.5 MI (0.8 KM) SOUTH OF INTERSECTION WITH STATE ROUTE 520 IN HOLMDEL, AND 1.9 MI (3.1 KM) UPSTREAM FROM HOP BROOK.
DRAINAGE AREA -- 6.88 SQ-MI (17.82 SQ-KM)
TRIBUTARY TO -- HOP BROOK
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1969-74
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.7 (0.08) | 2.4 (0.07) |

01407300 BIG BROOK AT VANDERBURG, NJ

LOCATION -- LAT 40 19 32, LONG 074 11 19, MONMOUTH COUNTY, AT BRIDGE ON STATE ROUTE 34 AT INTERSECTION WITH CONOVER ROAD, 0.8 MI (1.3 KM) NORTH OF VANDERBURG, AND 1.8 MI (2.9 KM) UPSTREAM FROM HOP BROOK.
DRAINAGE AREA -- 8.41 SQ-MI (21.78 SQ-KM)
TRIBUTARY TO -- HOP BROOK
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1969-74
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.7 (0.10) | 2.2 (0.06) |

01407400 YELLOW BROOK AT COLTS NECK, NJ

LOCATION -- LAT 40 17 47, LONG 074 10 16, MONMOUTH COUNTY, AT BRIDGE ON CREAMERY ROAD, 0.3 MI (0.5 KM) UPSTREAM FROM MINE BROOK, AND 0.7 MI (1.1 KM) NORTH OF COLTS NECK.
DRAINAGE AREA -- 9.71 SQ-MI (25.15 SQ-KM)
TRIBUTARY TO -- SWIMMING RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1969-74
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.7 (0.13) | 2.9 (0.08) |

ATLANTIC COASTAL BASINS (UPPER)

01407450 MINE BROOK AT COLTS NECK, NJ

LOCATION -- LAT 40 17 29, LONG 074 10 11, MONMOUTH COUNTY, AT BRIDGE ON CREAMERY ROAD, 0.4 MI (0.6 KM) NORTHEAST OF COLTS NECK, AND 0.5 MI (0.8 KM) UPSTREAM FROM YELLOW BROOK.

DRAINAGE AREA -- 5.48 SQ-MI (14.19 SQ-KM)

TRIBUTARY TO -- YELLOW BROOK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1969-74

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.7 (0.05) | 0.9 (0.02) |

01407500 SWIMMING RIVER NEAR RED BANK, NJ

LOCATION -- LAT 40 19 10, LONG 074 06 55, MONMOUTH COUNTY, ON LEFT BANK 50 FT (15 M) UPSTREAM FROM DAM AT SWIMMING RIVER RESERVOIR, 3.3 MI (5.3 KM) SOUTHWEST OF RED BANK, AND 4.8 MI (7.7 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 48.5 SQ-MI (125.6 SQ-KM)

TRIBUTARY TO -- NAVESINK RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 79.2 CU FT/S (2.24 CU M/S), ADJUSTED FOR STORAGE AND DIVERSION.

DAILY DISCHARGE EXTREMES -- MAXIMUM 1350 CU FT/S (38.2 CU M/S)

MINIMUM 0.0 CU FT/S (0.00 CU M/S)

REMARKS -- REGULATION SIGNIFICANT AT ALL FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1961-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 314 | 189 | 124 | 87.6 | 67.9 | 53.6 | 43.0 | 32.0 | 20.4 | 9.90 | 3.24 | 0.261 | 0.005 |
| CU M/S | 8.89 | 5.35 | 3.51 | 2.48 | 1.92 | 1.52 | 1.22 | 0.906 | 0.578 | 0.280 | 0.092 | 0.007 | 0.000 |

LOW-FLOW FREQUENCY -- PERIOD 1962-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 0.6 (0.02) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 7 | 0.8 (0.02) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 30 | 1.4 (0.04) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 90 | 9.5 (0.27) | 1.7 (0.05) | 0.5 (0.01) | 0.2 (0.01) |

01407520 PINE BROOK AT TINTON FALLS, NJ

LOCATION -- LAT 40 18 15, LONG 074 06 05, MONMOUTH COUNTY, AT BRIDGE ON TINTON AVENUE IN TINTON FALLS, 150 FT (50 M) WEST OF INTERSECTION WITH SYCAMORE AVENUE, AND 0.9 MI (1.4 KM) DOWNSTREAM FROM HOCKHOCKSON BROOK.

DRAINAGE AREA -- 12.1 SQ-MI (31.3 SQ-KM)

TRIBUTARY TO -- SWIMMING RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1969-74

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.2 (0.12) | 2.4 (0.07) |

01407700 SHARK RIVER AT GLENDOLA, NJ

LOCATION -- LAT 40 12 10, LONG 074 04 53, MONMOUTH COUNTY, AT HIGHWAY BRIDGE ON COUNTY ROAD, 0.5 MI (0.8 KM) UPSTREAM FROM ROBINS SWAMP BROOK, 0.5 MI (0.8 KM) SOUTH OF STATE ROUTE 33, 0.8 MI (1.3 KM) NORTH OF GLENDOLA, AND 2.8 MI (4.5 KM) WEST OF NEPTUNE CITY.

DRAINAGE AREA -- 9.14 SQ-MI (23.67 SQ-KM)

TRIBUTARY TO -- ATLANTIC OCEAN

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1956-63, 66

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 7.0 (0.20) | 5.1 (0.14) |

01407705 SHARK RIVER NEAR NEPTUNE CITY, NJ

LOCATION -- LAT 40 11 56, LONG 074 04 14, MONMOUTH COUNTY, ON LEFT BANK 100 FT (30 M) UPSTREAM FROM BRIDGE ON REMSEN MILL ROAD, 0.3 MI (0.5 KM) DOWNSTREAM FROM ROBINS SWAMP BROOK, AND 1.7 MI (2.7 KM) WEST OF NEPTUNE CITY.

DRAINAGE AREA -- 9.96 SQ-MI (25.80 SQ-KM)

TRIBUTARY TO -- ATLANTIC OCEAN

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 14.1 CU FT/S (0.399 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 560 CU FT/S (15.9 CU M/S)
MINIMUM 1.2 CU FT/S (0.03 CU M/S)

REMARKS -- FLOW AFFECTED BY RESERVOIR REGULATION AND DIVERSIONS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1967-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 84.4 | 41.9 | 26.6 | 17.9 | 13.7 | 10.7 | 8.45 | 6.86 | 5.42 | 4.19 | 3.11 | 2.60 | 2.14 | 1.84 | 1.50 |
| CU M/S | 2.39 | 1.19 | 0.753 | 0.507 | 0.388 | 0.303 | 0.239 | 0.194 | 0.153 | 0.119 | 0.088 | 0.074 | 0.061 | 0.052 | 0.042 |

LOW-FLOW FREQUENCY -- PERIOD 1968-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.6 (0.07) | 2.1 (0.06) |

01407760 JUMPING BROOK NEAR NEPTUNE CITY, NJ

LOCATION -- LAT 40 12 13, LONG 074 03 58, MONMOUTH COUNTY, ON LEFT BANK 50 FT (15 M) DOWNSTREAM FROM DAM ON JUMPING BROOK RESERVOIR, 0.8 MI (1.3 KM) UPSTREAM FROM MOUTH, AND 1.4 MI (2.3 KM) WEST OF NEPTUNE CITY.

DRAINAGE AREA -- 6.43 SQ-MI (16.65 SQ-KM)

TRIBUTARY TO -- SHARK RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 10.6 CU FT/S (0.300 CU M/S)
DAILY DISCHARGE EXTREMES -- MAXIMUM 509 CU FT/S (14.4 CU M/S)
MINIMUM 0.2 CU FT/S (0.03 CU M/S)

REMARKS -- FLOW AFFECTED BY RESERVOIR REGULATION AND DIVERSIONS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1967-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 54.3 | 30.1 | 19.3 | 12.4 | 9.19 | 7.37 | 5.87 | 4.72 | 3.80 | 3.15 | 2.34 | 1.82 | 1.34 | 1.04 | 0.799 |
| CU M/S | 1.54 | 0.852 | 0.547 | 0.351 | 0.260 | 0.209 | 0.166 | 0.134 | 0.108 | 0.089 | 0.066 | 0.052 | 0.038 | 0.029 | 0.023 |

LOW-FLOW FREQUENCY -- PERIOD 1968-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.1 (0.06) | 1.4 (0.04) |

01407800 WRECK POND BROOK NEAR SPRING LAKE, NJ

LOCATION -- LAT 40 09 11, LONG 074 03 43, MONMOUTH COUNTY, AT OSBORNE POND DAM, 1.1 MI (1.8 KM) UPSTREAM FROM HANNABRAND BROOK, AND 1.7 MI (2.7 KM) WEST OF SPRING LAKE.

DRAINAGE AREA -- 7.00 SQ-MI (18.13 SQ-KM)

TRIBUTARY TO -- ATLANTIC OCEAN

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500.
CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1956-63, 66

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.7 (0.13) | 3.4 (0.10) |

01407830 MANASQUAN RIVER NEAR GEORGIA, NJ

LOCATION -- LAT 40 12 36, LONG 074 16 41, MONMOUTH COUNTY, AT CULVERT ON JACKSONS MILL ROAD, 0.5 MI (0.8 KM) ABOVE DEBOIS CREEK, 0.9 MI (1.4 KM) SOUTHWEST OF INTERSECTION OF JACKSONS MILL ROAD WITH STATE ROUTE 524, 1.3 MI (2.4 KM) SOUTHWEST OF ADELPHIA, AND 1.6 MI (2.6 KM) NORTH OF GEORGIA.
 DRAINAGE AREA -- 10.6 SQ-MI (27.5 SQ-KM)
 TRIBUTARY TO -- ATLANTIC OCEAN
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966, 69-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.9 (0.08) | 2.1 (0.06) |

01407860 DEBOIS CREEK AT ADELPHIA, NJ

LOCATION -- LAT 40 13 02, LONG 074 15 50, MONMOUTH COUNTY, AT BRIDGE ON STATE ROUTE 9, 0.4 MI (0.6 KM) WEST OF ADELPHIA, AND 0.9 MI (1.4 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 7.21 SQ-MI (18.67 SQ-KM)
 TRIBUTARY TO -- MANASQUAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966, 69-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 6.0 (0.17) | 4.1 (0.12) |

01407890 MANASQUAN RIVER TRIBUTARY NO. 7 AT WEST FARMS, NJ

LOCATION -- LAT 40 12 08, LONG 074 12 09, MONMOUTH COUNTY, AT BRIDGE ON STATE ROUTE 524 AND ITS INTERSECTION WITH SQUANKUM-YELLOW BROOK ROAD, 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH, 0.8 MI (1.3 KM) NORTH OF WEST FARMS, AND 1.8 MI (2.9 KM) WEST OF FARMINGDALE.
 DRAINAGE AREA -- 3.57 SQ-MI (9.25 SQ-KM)
 TRIBUTARY TO -- MANASQUAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1966, 69-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.9 (0.05) | 1.4 (0.04) |

01407900 MANASQUAN RIVER AT WEST FARMS, NJ

LOCATION -- LAT 40 11 34, LONG 074 11 44, MONMOUTH COUNTY, AT HIGHWAY BRIDGE, 0.3 MI (0.5 KM) EAST OF WEST FARMS, 0.6 MI (1.0 KM) SOUTH OF STATE ROUTE 524, AND 1.5 MI (2.4 KM) WEST OF FARMINGDALE.
 DRAINAGE AREA -- 33.5 SQ-MI (86.8 SQ-KM)
 TRIBUTARY TO -- ATLANTIC OCEAN
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-66, 73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 21 (0.59) | 16 (0.45) |

01407970 MANASQUAN RIVER TRIBUTARY NEAR FARMINGDALE, NJ

LOCATION -- LAT 40 10 47, LONG 074 11 22, MONMOUTH COUNTY, AT BRIDGE ON LIGHT-DUTY ROAD, 1.0 MI (1.6 KM) UPSTREAM FROM MOUTH, AND 1.6 MI (2.6 KM) SOUTHWEST OF FARMINGDALE.
 DRAINAGE AREA -- 3.38 SQ-MI (8.75 SQ-KM)
 TRIBUTARY TO -- MANASQUAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.6 (0.02) | 0.3 (0.01) |

01408000 MANASQUAN RIVER AT SQUANKUM, NJ

LOCATION -- LAT 40 09 47, LONG 074 09 21, MONMOUTH COUNTY, ON RIGHT BANK 20 FT (6 M) DOWNSTREAM FROM BRIDGE ON STATE HIGHWAY 547 (SQUANKUM PARK ROAD) IN SQUANKUM, AND 0.4 MI (0.6 KM) DOWNSTREAM FROM MARSH BOG BROOK.
 DRAINAGE AREA -- 43.4 SQ-MI (112.4 SQ-KM)
 TRIBUTARY TO -- ATLANTIC OCEAN
 STATION TYPE -- CONTINUOUS-RECORD GAGING STATION
 AVERAGE DISCHARGE -- 74.2 CU FT/S (2.10 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1690 CU FT/S (47.9 CU M/S)
 MINIMUM 14 CU FT/S (0.40 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1932-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | | | | | | | | | | | | | | | |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
| CU FT/S | 297 | 190 | 132 | 94.0 | 76.5 | 64.4 | 55.1 | 47.1 | 40.0 | 33.7 | 26.7 | 22.8 | 19.7 | 18.4 | 17.2 |
| CU M/S | 8.41 | 5.38 | 3.74 | 2.66 | 2.17 | 1.82 | 1.56 | 1.33 | 1.13 | 0.954 | 0.756 | 0.646 | 0.558 | 0.521 | 0.487 |

LOW-FLOW FREQUENCY -- PERIOD 1933-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | | | |
|----|-----------|-----------|-----------|-----------|
| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
| 3 | 23 (0.65) | 19 (0.54) | 17 (0.48) | 15 (0.42) |
| 7 | 24 (0.68) | 19 (0.54) | 17 (0.48) | 16 (0.45) |
| 30 | 27 (0.76) | 22 (0.62) | 19 (0.54) | 17 (0.48) |
| 90 | 34 (0.96) | 27 (0.76) | 23 (0.65) | 21 (0.59) |

01408015 MINGAMAHONE BROOK AT FARMINGDALE, NJ

LOCATION -- LAT 40 11 38, LONG 074 09 42, MONMOUTH COUNTY, AT BRIDGE ON BELMAR ROAD, 0.2 MI (0.3 KM) NORTHEAST OF STATE ROUTE 547 (ALSO 524) IN FARMINGDALE, 2.1 MI (3.4 KM) NORTH OF SQUANKUM, AND 3.0 MI (4.8 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 6.20 SQ-MI (16.06 SQ-KM)
 TRIBUTARY TO -- MANASQUAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1969-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 2.4 (0.07) | 1.4 (0.04) |

01408020 MINGAMAHONE BROOK AT SQUANKUM, NJ

LOCATION -- LAT 40 09 56, LONG 074 09 01, MONMOUTH COUNTY, AT BRIDGE ON STATE ROUTE 525 IN SQUANKUM, 0.2 MI (0.3 KM) EAST OF STATE ROUTE 547, AND 0.5 MI (0.8 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 10.7 SQ-MI (27.7 SQ-KM)
 TRIBUTARY TO -- MANASQUAN RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1966, 69-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 3.4 (0.10) | 2.2 (0.06) |

01408030 MANASQUAN RIVER AT ALLENWOOD, NJ

LOCATION -- LAT 40 08 35, LONG 074 07 03, MONMOUTH COUNTY, AT BRIDGE ON HOSPITAL ROAD, 0.7 MI (1.1 KM) ABOVE GARDEN STATE PARKWAY, 0.9 MI (1.4 KM) WEST OF ALLENWOOD, AND 1.5 MI (2.4 KM) DOWNSTREAM FROM MILL RUN.
 DRAINAGE AREA -- 63.9 SQ-MI (165.5 SQ-KM)
 TRIBUTARY TO -- ATLANTIC OCEAN
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01405400, 01408000 AND 01408500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1956-57, 66-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 34 (0.96) | 25 (0.71) |

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ

LOCATION -- LAT 40 06 35, LONG 074 13 10, OCEAN COUNTY, AT HIGHWAY BRIDGE ON U.S. ROUTE 9, 0.3 MI (0.5 KM) NORTH OF COUNTY LINE ROAD IN LAKEWOOD, AND 3.6 MI (5.8 KM) UPSTREAM FROM MUDDY FORD BROOK.
 DRAINAGE AREA -- 19.4 SQ-MI (50.2 SQ-KM)
 TRIBUTARY TO -- BARNEGAT BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408000, 01408500 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-63, 66
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 9.4 (0.27) | 6.6 (0.19) |

01408120 NORTH BRANCH METEDECONK RIVER NEAR LAKEWOOD, NJ

LOCATION -- LAT 40 05 30, LONG 074 09 10, OCEAN COUNTY, ON UPSTREAM RIGHT BANK AT BRIDGE ON STATE ROUTE 549, 1.0 MI (1.6 KM) UPSTREAM FROM CONFLUENCE WITH SOUTH BRANCH METEDECONK RIVER, AND 2.3 MI (3.7 KM) EAST OF LAKEWOOD.
 DRAINAGE AREA -- 34.9 SQ-MI (90.4 SQ-KM)
 TRIBUTARY TO -- METEDECONK RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408000, 01408500, AND 01411000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1973-76
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 16 (0.45) | 11 (0.31) |

01408140 SOUTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ

LOCATION -- LAT 40 05 12, LONG 074 12 45, OCEAN COUNTY, ON RIGHT BANK 15 FT (5 M) UPSTREAM FROM BRIDGE ON STATE ROUTE 88 (CEDAR BRIDGE AVENUE), 0.2 MI (0.3 KM) DOWNSTREAM FROM LAKE CARASALJO, AND 0.3 MI (0.5 KM) SOUTH OF LAKEWOOD.
 DRAINAGE AREA -- 26.0 SQ-MI (67.3 SQ-KM)
 TRIBUTARY TO -- METEDECONK RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408000, 01408500, AND 01411000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1973-76
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 11 (0.31) | 6.3 (0.18) |

01408300 TOMS RIVER AT WHITESVILLE, NJ

LOCATION -- LAT 40 03 42, LONG 074 16 29, OCEAN COUNTY, AT HIGHWAY BRIDGE ON STATE ROUTE 547, 0.5 MI (0.8 KM) SOUTH OF WHITESVILLE, 1.0 MI (1.6 KM) WEST OF SOUTH LAKEWOOD, AND 4.0 MI (6.4 KM) NORTHEAST OF LAKEHURST.
 DRAINAGE AREA -- 45.2 SQ-MI (117.1 SQ-KM)
 TRIBUTARY TO -- BARNEGAT BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408000, 01408500 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-63, 66
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 22 (0.62) | 16 (0.45) |

01408440 UNION BRANCH AT LAKEHURST, NJ

LOCATION -- LAT 40 00 34, LONG 074 18 06, OCEAN COUNTY, AT BRIDGE ON STATE ROUTE 37, 150 FT (50 M) UPSTREAM FROM MANAPQUA BROOK, AND 0.6 MI (1.0 KM) SOUTHEAST OF LAKEHURST.
 DRAINAGE AREA -- 19.0 SQ-MI (49.2 SQ-KM)
 TRIBUTARY TO -- TOMS RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408000, 01408500 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1960-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 17 (0.48) | 13 (0.37) |

01408460 MANAPQUA BROOK AT LAKEHURST, NJ

LOCATION -- LAT 40 00 44, LONG 074 18 10, OCEAN COUNTY, AT BRIDGE ON STATE ROUTE 70, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH, AND 0.5 MI (0.8 KM) EAST OF LAKEHURST.
 DRAINAGE AREA -- 6.32 SQ-MI (16.37 SQ-KM)
 TRIBUTARY TO -- UNION BRANCH
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408000, 01408500 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1960-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.5 (0.07) | 1.7 (0.05) |

01408490 RIDGEWAY BRANCH NEAR LAKEHURST, NJ

LOCATION -- LAT 40 01 57, LONG 074 18 24, OCEAN COUNTY, AT HIGHWAY BRIDGE ON STATE ROUTE 547, 0.4 MI (0.6 KM) SOUTHWEST OF STATE ROUTE 571, 1.4 MI (2.3 KM) NORTH OF LAKEHURST, AND 2.2 MI (3.5 KM) UPSTREAM FROM CABIN BRANCH.
 DRAINAGE AREA -- 28.2 SQ-MI (73.0 SQ-KM)
 TRIBUTARY TO -- UNION BRANCH
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408000, 01408500 AND 01464500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1959-63
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 11 (0.31) | 6.6 (0.19) |

01408500 TOMS RIVER NEAR TOMS RIVER, NJ

LOCATION -- LAT 39 59 10, LONG 074 13 29, OCEAN COUNTY, ON LEFT BANK 500 FT (150 M) DOWNSTREAM OF BRIDGE ON STATE ROUTE 527, 1.9 MI (3.1 KM) DOWNSTREAM FROM UNION BRANCH, AND 2.6 MI (4.2 KM) NORTHWEST OF TOMS RIVER.
 DRAINAGE AREA -- 124 SQ-MI (321 SQ-KM)
 TRIBUTARY TO -- BARNEGAT BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 215 CU FT/S (6.09 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1910 CU FT/S (54.1 CU M/S)
 MINIMUM 47 CU FT/S (1.3 CU M/S)
 REMARKS -- DIVERSION SINCE JULY 1966 SIGNIFICANT AT LOW FLOW ONLY.

DURATION TABLE OF DAILY FLOW -- PERIOD 1929-66
DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 511 | 410 | 341 | 276 | 238 | 210 | 185 | 163 | 142 | 121 | 96.9 | 83.1 | 73.5 | 69.0 | 64.0 |
| CU M/S | 14.5 | 11.6 | 9.66 | 7.82 | 6.74 | 5.95 | 5.24 | 4.62 | 4.02 | 3.43 | 2.74 | 2.35 | 2.08 | 1.95 | 1.81 |

DURATION TABLE OF DAILY FLOW -- PERIOD 1967-75
DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 625 | 507 | 411 | 335 | 283 | 249 | 220 | 190 | 163 | 140 | 118 | 103 | 92.5 | 88.0 | 82.4 |
| CU M/S | 17.7 | 14.4 | 11.6 | 9.49 | 8.01 | 7.05 | 6.23 | 5.38 | 4.62 | 3.96 | 3.34 | 2.92 | 2.62 | 2.49 | 2.33 |

LOW-FLOW FREQUENCY -- PERIOD 1930-66
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|----------|----------|----------|
| 3 | 81 (2.3) | 68 (1.9) | 64 (1.8) | 60 (1.7) |
| 7 | 84 (2.4) | 71 (2.0) | 67 (1.9) | 63 (1.8) |
| 30 | 96 (2.7) | 80 (2.3) | 73 (2.1) | 68 (1.9) |
| 90 | 120 (3.4) | 99 (2.8) | 89 (2.5) | 82 (2.3) |

LOW-FLOW FREQUENCY -- PERIOD 1967-75
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|----------|----------|
| 7 | 96 (2.7) | 64 (1.8) |

01408800 WEBBS MILL BRANCH NEAR WHITING, NJ

LOCATION -- LAT 39 53 16, LONG 074 22 49, OCEAN COUNTY, AT BRIDGE ON WARREN GROVE-WHITING ROAD, 3.3 MI (5.3 KM) UPSTREAM FROM CHAMBERLAIN BRANCH, AND 4.5 MI (7.2 KM) SOUTH OF WHITING.
 DRAINAGE AREA -- 2.92 SQ-MI (7.56 SQ-KM)
 TRIBUTARY TO -- CHAMBERLAIN BRANCH
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408500, 01409500 AND 01410000.
 CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.2 (0.06) | 1.7 (0.05) |

01408810 WEBBS MILL BRANCH TRIBUTARY NEAR WHITING, NJ

LOCATION -- LAT 39 53 29, LONG 074 22 52, OCEAN COUNTY, AT BRIDGE ON WARREN GROVE-WHITING ROAD, 0.4 MI (0.6 KM) UPSTREAM FROM MOUTH, AND 4.3 MI (6.9 KM) SOUTH OF WHITING.
 DRAINAGE AREA -- 0.53 SQ-MI (1.37 SQ-KM)
 TRIBUTARY TO -- WEBBS MILL BRANCH
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408500, 01409500 AND 01410000.
 CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01409000 CEDAR CREEK AT LANOKA HARBOR, NJ

LOCATION -- LAT 39 52 05, LONG 074 10 06, OCEAN COUNTY, ON RIGHT BANK 20 FT (6 M) UPSTREAM FROM BRIDGE ON U.S. HIGHWAY 9, AT VILLAGE OF LANOKA HARBOR.

DRAINAGE AREA -- 56.0 SQ-MI (145.0 SQ-KM)

TRIBUTARY TO -- BARNEGAT BAY

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 107 CU FT/S (3.03 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 996 CU FT/S (28.2 CU M/S)
MINIMUM 13 CU FT/S (0.37 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1933-58, 71

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 248 | 205 | 175 | 141 | 121 | 108 | 94.9 | 85.7 | 77.0 | 68.4 | 57.4 | 48.3 | 35.0 | 25.5 | 21.0 |
| CU M/S | 7.02 | 5.81 | 4.96 | 3.99 | 3.43 | 3.06 | 2.69 | 2.43 | 2.18 | 1.94 | 1.63 | 1.37 | 0.991 | 0.722 | 0.595 |

LOW-FLOW FREQUENCY -- PERIOD 1934-58

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 33 (0.93) | 24 (0.68) | 21 (0.59) | 18 (0.51) |
| 7 | 46 (1.3) | 38 (1.1) | 35 (0.99) | 32 (0.91) |
| 30 | 61 (1.7) | 52 (1.5) | 47 (1.3) | 44 (1.2) |
| 90 | 72 (2.0) | 61 (1.7) | 55 (1.6) | 50 (1.4) |

01409050 NORTH BRANCH FORKED RIVER NEAR FORKED RIVER, NJ

LOCATION -- LAT 39 51 27, LONG 074 13 21, OCEAN COUNTY, AT BRIDGE ON NORTHBOUND LANE OF GARDEN STATE PARKWAY, 2.0 MI (3.2 KM) NORTHWEST OF FORKED RIVER, AND 3.1 MI (5.0 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 13.4 SQ-MI (34.7 SQ-KM)

TRIBUTARY TO -- FORKED RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408000, 01408500 AND 01410000.
CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1961-65

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 7.2 (0.20) | 5.2 (0.15) |

01409080 SOUTH BRANCH FORKED RIVER NEAR FORKED RIVER, NJ

LOCATION -- LAT 39 48 56, LONG 074 13 50, OCEAN COUNTY, AT CULVERT ON SOUTHBOUND LANE OF GARDEN STATE PARKWAY AT MILE MARKER 71.9, 1.4 MI (2.3 KM) NORTH OF STATE ROUTE 532, 2.6 MI (4.2 KM) SOUTHWEST OF FORKED RIVER, AND 3.7 MI (6.0 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 1.28 SQ-MI (3.32 SQ-KM)

TRIBUTARY TO -- NORTH BRANCH FORKED RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408000, 01408500 AND 01410000.
CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1968-74

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.6 (0.07) | 2.3 (0.07) |

01409095 OYSTER CREEK NEAR BROOKVILLE, NJ

LOCATION -- LAT 39 47 54, LONG 074 15 02, OCEAN COUNTY, ON LEFT BANK 100 FT (30 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 532, 1.5 MI (2.4 KM) DOWNSTREAM FROM RESERVOIR AT WELLS MILL, AND 3.2 MI (5.1 KM) NORTHEAST OF BROOKVILLE.

DRAINAGE AREA -- 7.43 SQ-MI (19.24 SQ-KM)

TRIBUTARY TO -- BARNEGAT BAY

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 28.4 CU FT/S (0.804 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 178 CU FT/S (5.04 CU M/S)
MINIMUM 14 CU FT/S (0.40 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1966-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 58.5 | 47.6 | 40.0 | 33.9 | 30.6 | 28.4 | 26.6 | 24.9 | 23.3 | 21.6 | 19.8 | 18.6 | 17.4 | 16.5 | 16.0 |
| CU M/S | 1.66 | 1.35 | 1.13 | 0.960 | 0.867 | 0.804 | 0.753 | 0.705 | 0.660 | 0.612 | 0.561 | 0.527 | 0.493 | 0.467 | 0.453 |

LOW-FLOW FREQUENCY -- PERIOD 1967-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 19 (0.54) | 17 (0.48) | 15 (0.42) | 14 (0.40) |
| 7 | 19 (0.54) | 17 (0.48) | 16 (0.45) | 15 (0.42) |
| 30 | 21 (0.59) | 19 (0.54) | 18 (0.51) | 17 (0.48) |
| 90 | 23 (0.65) | 21 (0.59) | 19 (0.54) | 18 (0.51) |

01409100 OYSTER CREEK NEAR WARETOWN, NJ

LOCATION -- LAT 39 48 14, LONG 074 13 35, OCEAN COUNTY, AT CULVERT UNDER NORTHBOUND LANE OF GARDEN STATE PARKWAY, 2.1 MI (3.4 KM) NORTHWEST OF WARETOWN, 3.5 MI (5.6 KM) NORTH OF BARNEGAT, AND 3.9 MI (6.3 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 9.95 SQ-MI (25.77 SQ-KM)

TRIBUTARY TO -- BARNEGAT BAY

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408000, 01408500 AND 01410000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1961-65

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 23 (0.65) | 20 (0.57) |

ATLANTIC COASTAL BASINS (LOWER)

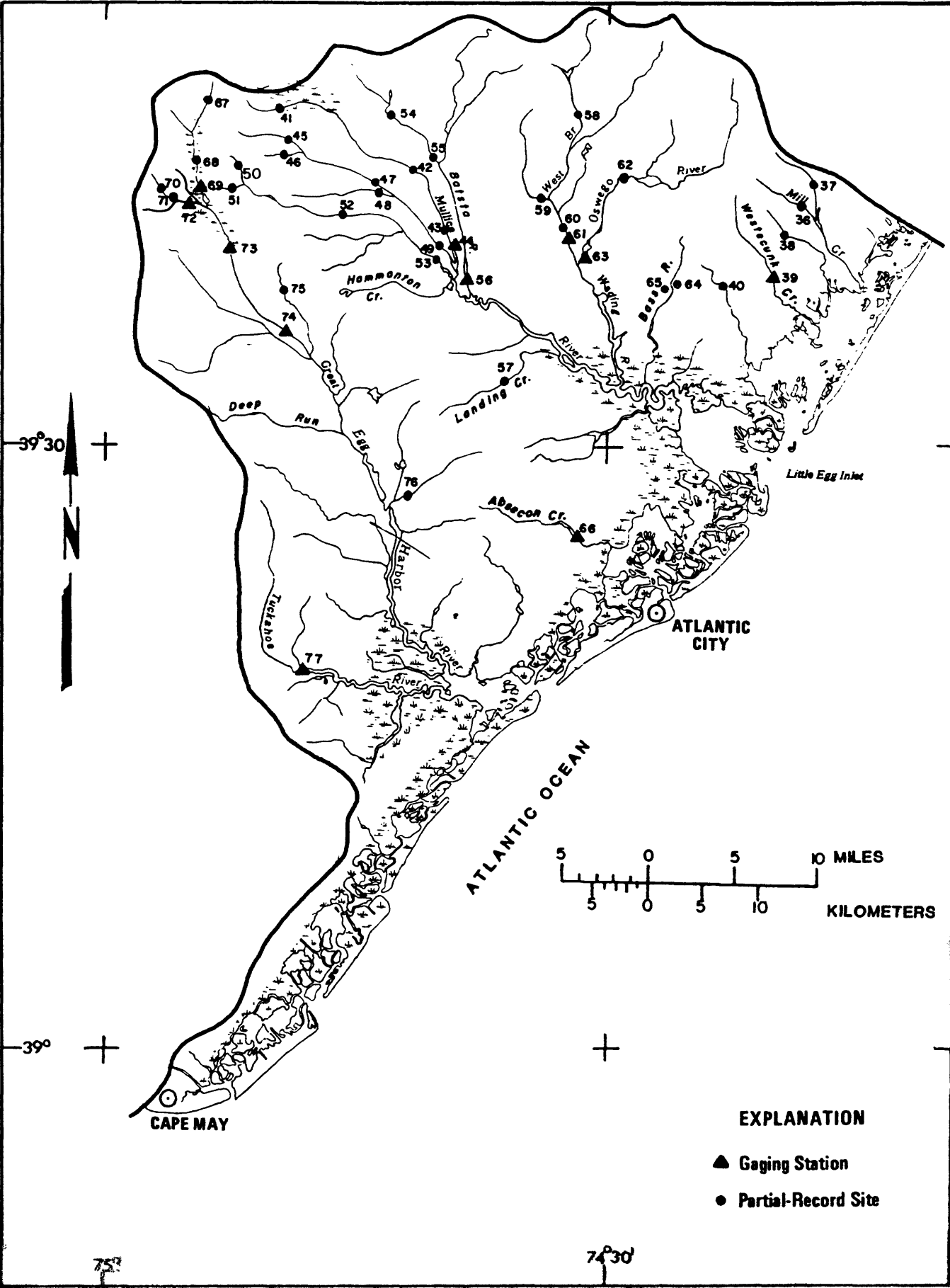


Figure 12.-- Map Segment 4 showing site locations in the lower part of the Atlantic Coastal basin

| MAP NO. | STATION NUMBER | STATION NAME | QUADRANGLE MAP 7.5 MINUTE SERIES | PAGE |
|---------------------------------|-------------------|---|-------------------------------------|------|
| ATLANTIC COASTAL BASINS (LOWER) | | | | |
| MILL CREEK BASIN | | | | |
| 36 | 01409150 | MILL CREEK NEAR MANAHAWKIN----- | WEST CREEK----- | 102 |
| 37 | 01409200 | FOURMILE BRANCH NEAR MANAHAWKIN----- | WEST CREEK----- | 102 |
| CEDAR RUN BASIN | | | | |
| 38 | 01409250 | CEDAR RUN NEAR MANAHAWKIN----- | WEST CREEK----- | 102 |
| 39 | 01409280 | WESTCUNK CREEK AT STAFFORD FORGE----- | WEST CREEK----- | 102 |
| TUCKERTON CREEK BASIN | | | | |
| 40 | 01409300 | MILL BRANCH TUCKERTON CREEK NEAR TUCKERTON----- | WEST CREEK----- | 103 |
| MULICA RIVER BASIN | | | | |
| 41 | 01409375 | MULICA RIVER NEAR ATCO----- | MEDFORD LAKES---- | 103 |
| 42 | 01409390 | MULICA RIVER AT ATSION----- | ATSION----- | 103 |
| 43 | 01409395 | MULICA RIVER TRIBUTARY NEAR ATSION----- | ATSION----- | 103 |
| 44 | 01409400 | MULICA RIVER NEAR BATSTO----- | ATSION----- | 104 |
| SLEEPER BRANCH: | | | | |
| 45 | 01409402 | HAYS MILL CREEK NEAR CHESILHURST----- | MEDFORD LAKES---- | 104 |
| 46 | 01409403 | WILDCAT BRANCH AT CHESILHURST----- | HAMMONTON----- | 104 |
| 47 | 01409404 | SLEEPER BRANCH NEAR ATSION----- | ATSION----- | 104 |
| 48 | 01409405 | CLARK BRANCH NEAR ATSION----- | ATSION----- | 105 |
| 49 | 01409406 | SLEEPER BRANCH AT BATSTO----- | ATSION----- | 105 |
| ALBERTSON BROOK: | | | | |
| 50 | 01409407 | PUMP BRANCH NEAR BLUE ANCHOR----- | WILLIAMSTOWN----- | 105 |
| 51 | 01409409 | BLUE ANCHOR BROOK NEAR BLUE ANCHOR----- | HAMMONTON----- | 105 |
| 52 | 01409410 | ALBERTSON BROOK NEAR HAMMONTON----- | HAMMONTON----- | 106 |
| 53 | 01409411 | NESCOCHAGUE CREEK AT PLEASANT MILLS----- | ATSION----- | 106 |
| BATSTO RIVER: | | | | |
| 54 | 01409450 | SPRINGERS BROOK NEAR INDIAN MILLS----- | INDIAN MILLS----- | 106 |
| 55 | 01409460 | SPRINGERS BROOK NEAR ATSION----- | ATSION----- | 106 |
| 56 | 01409500 | BATSTO RIVER AT BATSTO----- | ATSION----- | 107 |
| 57 | 01409575 | LANDING CREEK AT PHILADELPHIA AVENUE, AT EGG HARBOR CITY----- | EGG HARBOR CITY-- | 107 |
| 58 | 01409730 | WEST BRANCH WADING RIVER NEAR CHATSWORTH----- | CHATSWORTH----- | 107 |
| 59 | 01409780 | TULPEHOCKEN CREEK NEAR JENKINS----- | JENKINS----- | 107 |
| 60 | 01409800 | WEST BRANCH WADING RIVER NEAR HARRISVILLE----- | JENKINS----- | 108 |
| 61 | 01409810 | WEST BRANCH WADING RIVER NEAR JENKINS----- | JENKINS----- | 108 |
| WADING RIVER: | | | | |
| 62 | 01409970 | OSWEGO RIVER AT OSWEGO LAKE----- | OSWEGO LAKE----- | 108 |
| 63 | 01410000 | OSWEGO RIVER AT HARRISVILLE----- | JENKINS----- | 109 |
| 64 | 01410150 | EAST BRANCH BASS RIVER NEAR NEW GRETN----- | NEW GRETN----- | 109 |
| 65 | 01410200 | WEST BRANCH BASS RIVER NEAR NEW GRETN----- | NEW GRETN----- | 109 |
| ABSECON CREEK BASIN | | | | |
| 66 | 01410500 | ABSECON CREEK AT ABSECON----- | PLEASANTVILLE---- | 110 |
| GREAT EGG HARBOR RIVER BASIN | | | | |
| 67 | 01410775 | GREAT EGG HARBOR RIVER AT BERLIN----- | CLEMENTON----- | 110 |
| 68 | 01410784 | GREAT EGG HARBOR RIVER NEAR SICKLERVILLE----- | WILLIAMSTOWN----- | 110 |
| 69 | 01410787 | GREAT EGG HARBOR RIVER TRIBUTARY AT SICKLERVILLE----- | WILLIAMSTOWN----- | 110 |
| 70 | 01410800 | FOURMILE BRANCH NEAR WILLIAMSTOWN----- | WILLIAMSTOWN----- | 111 |
| 71 | 01410803 | FOURMILE BRANCH AT WINSLOW CROSSING----- | WILLIAMSTOWN----- | 111 |
| 72 | 01410810 | FOURMILE BRANCH AT NEW BROOKLYN----- | WILLIAMSTOWN----- | 111 |
| 73 | 01410820 | GREAT EGG HARBOR RIVER NEAR BLUE ANCHOR----- | WILLIAMSTOWN----- | 111 |
| 74 | 01411000 | GREAT EGG HARBOR RIVER AT FOLSOM----- | NEWTONVILLE----- | 112 |
| 75 | 01411020 | PENNY POT STREAM NEAR FOLSOM----- | NEWTONVILLE----- | 112 |
| 76 | 01411200 | BABCOCK CREEK AT MAYS LANDING----- | MAYS LANDING----- | 112 |
| TUCKAHOE RIVER BASIN | | | | |
| 77 | 01411300 | TUCKAHOE RIVER AT HEAD OF RIVER----- | TUCKAHOE----- | 112 |

01409150 MILL CREEK NEAR MANAHAWKIN, NJ

LOCATION -- LAT 39 42 54, LONG 074 16 56, OCEAN COUNTY, AT BRIDGE ON STATE ROUTE 72, 0.3 MI (0.5 KM) NORTHWEST OF INTERSECTION OF STATE ROUTE 72 AND GARDEN STATE PARKWAY, 1.8 MI (2.9 KM) NORTHWEST OF MANAHAWKIN, AND 6.5 MI (10.5 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 10.4 SQ-MI (26.9 SQ-KM)
 TRIBUTARY TO -- LITTLE EGG HARBOR
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408500, 01409500 AND 01410000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1961-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|-----------|-----------|
| | 2 YEARS | 10 YEARS |
| 7 | 13 (0.37) | 11 (0.31) |

01409200 FOURMILE BRANCH NEAR MANAHAWKIN, NJ

LOCATION -- LAT 39 43 47, LONG 074 15 54, OCEAN COUNTY, AT CULVERT UNDER NORTHBOUND LANE OF GARDEN STATE PARKWAY, 1.5 MI (2.4 KM) NORTHEAST OF INTERSECTION OF GARDEN STATE PARKWAY AND STATE ROUTE 72, 1.8 M (2.9 KM) UPSTREAM FROM MOUTH, AND 2.4 MI (3.9 KM) NORTH OF MANAHAWKIN.
 DRAINAGE AREA -- 5.24 SQ-MI (13.57 SQ-KM)
 TRIBUTARY TO -- MILL CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408500, 01409500 AND 01410000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1961-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 2.5 (0.07) | 1.8 (0.05) |

01409250 CEDAR RUN NEAR MANAHAWKIN, NJ

LOCATION -- LAT 39 41 31, LONG 074 17 56, OCEAN COUNTY, AT CULVERT UNDER NORTHBOUND LANE OF GARDEN STATE PARKWAY, 2.1 MI (3.4 KM) WEST OF MANAHAWKIN, AND 5.1 MI (8.2 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 3.34 SQ-MI (8.65 SQ-KM)
 TRIBUTARY TO -- LITTLE EGG HARBOR
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408500, 01409500 AND 01410000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1961-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 1.3 (0.04) | 0.9 (0.03) |

01409280 WESTCUNK CREEK AT STAFFORD FORGE, NJ

LOCATION -- LAT 39 40 00, LONG 074 19 12, OCEAN COUNTY, 30 FT (10 M) DOWNSTREAM FROM DAM, 0.2 MI (0.3 KM) SOUTH OF STAFFORD FORGE, 1.2 MI (1.9 KM) BELOW LOG SWAMP BRANCH, AND 2.0 MI (3.2 KM) WEST OF STAFFORDVILLE.
 DRAINAGE AREA -- 16.0 SQ-MI (41.4 SQ-KM)
 TRIBUTARY TO -- LITTLE EGG HARBOR
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408500, 01409500 AND 01410000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1969-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|-----------|-----------|
| | 2 YEARS | 10 YEARS |
| 7 | 20 (0.57) | 17 (0.48) |

01409300 MILL BRANCH NEAR TUCKERTON, NJ

LOCATION -- LAT 39 38 29, LONG 074 21 49, OCEAN COUNTY, AT CULVERT UNDER NORTHBOUND LANE OF GARDEN STATE PARKWAY, 2.9 MI (4.7 KM) NORTHWEST OF TUCKERTON, AND 3.0 MI (4.8 KM) UPSTREAM FROM GIFFORDS MILL BRANCH.

DRAINAGE AREA -- 4.89 SQ-MI (12.67 SQ-KM)

TRIBUTARY TO -- TUCKERTON CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408500, 01409400 AND 01410000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1961-67
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.9 (0.05) | 1.3 (0.04) |

01409375 MULICA RIVER NEAR ATCO, NJ

LOCATION -- LAT 39 47 08, LONG 074 51 38, CAMDEN COUNTY, ON LEFT BANK, 50 FT (15 M) DOWNSTREAM FROM JACKSON-MEDFORD ROAD, AND 1.8 MI (2.9 KM) NORTHEAST OF PENNSYLVANIA-READING SEASHORE LINES RAILROAD AT ATCO STREET IN ATCO.

DRAINAGE AREA -- 3.22 SQ-MI (8.34 SQ-KM)

TRIBUTARY TO -- GREAT BAY

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01411000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1975-77
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.5 (0.01) | 0.2 (0.01) |

01409390 MULICA RIVER AT ATSION, NJ

LOCATION -- LAT 39 44 19, LONG 074 43 20, BURLINGTON COUNTY, AT CENTRAL RAILROAD OF NEW JERSEY BRIDGE IN ATSION, 500 FT (150 M) DOWNSTREAM FROM WESICKAMAN CREEK, AND 0.3 MI (0.5 KM) SOUTHEAST OF ATSION.

DRAINAGE AREA -- 33.1 SQ-MI (85.7 SQ-KM)

TRIBUTARY TO -- GREAT BAY

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1975-77
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 14 (0.40) | 8.6 (0.24) |

01409395 MULICA RIVER TRIBUTARY NEAR ATSION, NJ

LOCATION -- LAT 39 41 29, LONG 074 40 53, ATLANTIC COUNTY, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH, 3.8 MI (6.1 KM) NORTHWEST OF BATSTO, AND 4.2 MI (6.8 KM) SOUTHEAST OF ATSION.

DRAINAGE AREA -- 4.10 SQ-MI (10.62 SQ-KM)

TRIBUTARY TO -- MULICA RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1975-77
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 5.0 (0.14) | 2.7 (0.08) |

01409400 MULICA RIVER NEAR BATSTO, NJ

LOCATION -- LAT 39 40 28, LONG 074 39 55, ATLANTIC COUNTY, ON RIGHT BANK 2.4 MI (3.9 KM) UPSTREAM FROM SLEEPER BRANCH, AND 2.5 MI (4.0 KM) NORTH OF BATSTO.

DRAINAGE AREA -- 46.1 SQ-MI (119.4 SQ-KM)

TRIBUTARY TO -- GREAT BAY

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 119 CU FT/S (3.37 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 1300 CU FT/S (36.8 CU M/S)

MINIMUM 7.5 CU FT/S (0.21 CU M/S)

REMARKS -- OCCASIONAL SLIGHT REGULATION BY CRANBERRY BOGS; NOT SIGNIFICANT. DIVERSIONS FROM SLEEPER BRANCH ENTER RIVER ABOVE GAGE.

DURATION TABLE OF DAILY FLOW -- PERIOD 1958-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 338 | 264 | 212 | 161 | 131 | 110 | 93.2 | 78.4 | 63.5 | 48.2 | 34.0 | 27.4 | 22.6 | 20.6 | 18.8 |
| CU M/S | 9.57 | 7.48 | 6.00 | 4.56 | 3.71 | 3.12 | 2.64 | 2.22 | 1.80 | 1.37 | 0.963 | 0.776 | 0.640 | 0.583 | 0.532 |

LOW-FLOW FREQUENCY -- PERIOD 1959-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 29 (0.82) | 19 (0.54) | 14 (0.40) | 11 (0.31) |
| 7 | 30 (0.85) | 20 (0.57) | 15 (0.42) | 12 (0.34) |
| 30 | 35 (0.99) | 24 (0.68) | 20 (0.57) | 17 (0.48) |
| 90 | 46 (1.3) | 32 (0.91) | 27 (0.76) | 23 (0.65) |

01409402 HAYS MILL CREEK NEAR CHESILHURST, NJ

LOCATION -- LAT 39 45 02, LONG 074 50 28, CAMDEN COUNTY, AT BRIDGE ON TREMONT AVENUE, 0.5 MI (0.8 KM) UPSTREAM FROM COOPER BRANCH, 2.0 MI (3.2 KM) NORTHEAST OF CHESILHURST, AND 2.8 MI (4.5 KM) SOUTHEAST OF ATCO.

DRAINAGE AREA -- 7.13 SQ-MI (18.47 SQ-KM)

TRIBUTARY TO -- SLEEPER BRANCH

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01411000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1974-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 7.7 (0.22) | 5.1 (0.14) |

01409403 WILDCAT BRANCH AT CHESILHURST, NJ

LOCATION -- LAT 39 44 04, LONG 074 51 33, CAMDEN COUNTY, AT CULVERT ON OLD WHITE HORSE PIKE, 0.6 MI (1.0 KM) NORTH OF CHESILHURST, 1.5 MI (2.4 KM) UPSTREAM FROM MOUTH, AND 2.9 MI (4.6 KM) SOUTHEAST OF ATCO.

DRAINAGE AREA -- 1.03 SQ-MI (2.67 SQ-KM)

TRIBUTARY TO -- SLEEPER BRANCH

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01411000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1974-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01409404 SLEEPER BRANCH NEAR ATSION, NJ

LOCATION -- LAT 39 42 46, LONG 074 43 36, ATLANTIC COUNTY, AT BRIDGE ON U.S. ROUTE 206, 0.1 MI (0.2 KM) UPSTREAM FROM CLARK BRANCH, 0.6 MI (1.0 KM) SOUTH OF DUTCHTOWN, AND 2.1 MI (3.4 KM) SOUTH OF ATSION.

DRAINAGE AREA -- 18.2 SQ-MI (47.1 SQ-KM)

TRIBUTARY TO -- MULICA RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500, 01410000 AND 01411000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1975-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.8 (0.02) | 0.4 (0.01) |

01409405 CLARK BRANCH NEAR ATSION, NJ

LOCATION -- LAT 39 42 42, LONG 074 44 39, ATLANTIC COUNTY, AT BRIDGE ON U.S. ROUTE 206, 0.1 MI (0.2 KM) UPSTREAM FROM SLEEPER BRANCH, 0.6 MI (1.0 KM) SOUTH OF DUTCHTOWN, AND 2.1 MI (3.4 KM) SOUTH OF ATSION.
 DRAINAGE AREA -- 7.12 SQ-MI (18.44 SQ-KM)
 TRIBUTARY TO -- SLEEPER BRANCH
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1975-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 9.0 (0.25) | 6.1 (0.17) |

01409406 SLEEPER BRANCH AT BATSTO, NJ

LOCATION -- LAT 39 38 48, LONG 074 39 39, ATLANTIC COUNTY, AT FOOT BRIDGE, 600 FT (180 M) UPSTREAM FROM MULLICA RIVER, AND 0.6 MI (1.0 KM) NORTHWEST OF BATSTO.
 DRAINAGE AREA -- 36.1 SQ-MI (93.5 SQ-KM)
 TRIBUTARY TO -- MULLICA RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED FAIR. DIVERSIONS TO MULLICA RIVER ABOVE SITE.

LOW-FLOW FREQUENCY -- PERIOD 1975-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.6 (0.05) | 0.8 (0.02) |

01409407 PUMP BRANCH NEAR BLUE ANCHOR, NJ

LOCATION -- LAT 39 42 22, LONG 074 53 04, CAMDEN COUNTY, AT HIGHWAY BRIDGE, 0.4 MI (0.6 KM) UPSTREAM FROM HOBBS LAKE, AND 1.2 MI (1.9 KM) NORTH OF BLUE ANCHOR.
 DRAINAGE AREA -- 6.20 SQ-MI (16.06 SQ-KM)
 TRIBUTARY TO -- ALBERTSON BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01411000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1974-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.7 (0.05) | 1.1 (0.03) |

01409409 BLUE ANCHOR BROOK NEAR BLUE ANCHOR, NJ

LOCATION -- LAT 39 41 17, LONG 074 51 00, CAMDEN COUNTY, ON UPSTREAM LEFT SIDE OF BRIDGE ON SPRING GARDEN ROAD, 1.8 MI (2.9 KM) EAST OF BLUE ANCHOR, 1.8 MI (2.9 KM) NORTH OF WINSLOW, AND 2.2 MI (3.5 KM) UPSTREAM FROM ALBERTSON BROOK.
 DRAINAGE AREA -- 3.01 SQ-MI (7.80 SQ-KM)
 TRIBUTARY TO -- ALBERTSON BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01411000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1974-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.4 (0.01) | 0.2 (0.01) |

01409410 ALBERTSON BROOK NEAR HAMMONTON, NJ

LOCATION -- LAT 39 41 41, LONG 074 45 21, ATLANTIC COUNTY, AT BRIDGE ON U.S. ROUTE 206, 3.1 MI (5.0 KM) DOWNSTREAM FROM CONFLUENCE OF PUMP BRANCH AND BLUE ANCHOR BROOK, 3.5 MI (5.6 KM) SOUTH OF ATSION, AND 5.2 MI (8.4 KM) NORTHEAST OF HAMMONTON.
 DRAINAGE AREA -- 19.3 SQ-MI (50.0 SQ-KM)
 TRIBUTARY TO -- NESCOCHAGUE CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1975-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 15 (0.42) | 11 (0.31) |

01409411 NESCOCHAGUE CREEK AT PLEASANT MILLS, NJ

LOCATION -- LAT 39 38 29, LONG 074 39 43, ATLANTIC COUNTY, AT BRIDGE ON SAND ROAD IN PLEASANT MILLS, 0.2 MI (0.3 KM) UPSTREAM FROM MULLICA RIVER, AND 0.6 MI (1.0 KM) WEST OF BATSTO.
 DRAINAGE AREA -- 43.8 SQ-MI (113.4 SQ-KM)
 TRIBUTARY TO -- MULLICA RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1975-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 23 (0.65) | 15 (0.42) |

01409450 SPRINGERS BROOK NEAR INDIAN MILLS, NJ

LOCATION -- LAT 39 46 45, LONG 074 44 20, BURLINGTON COUNTY, AT HIGHWAY BRIDGE ON U.S. ROUTE 206, 1.1 MI (1.8 KM) SOUTH OF INDIAN MILLS, 1.9 MI (3.1 KM) UPSTREAM FROM BARD BRANCH, AND 2.8 MI (4.5 KM) NORTH OF ATSION.
 DRAINAGE AREA -- 12.6 SQ-MI (32.6 SQ-KM)
 TRIBUTARY TO -- BATSTO RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01411000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-63, 77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.2 (0.12) | 2.4 (0.07) |

01409460 SPRINGERS BROOK NEAR ATSION, NJ

LOCATION -- LAT 39 44 26, LONG 074 41 02, BURLINGTON COUNTY, AT SITE 100 FT (30 M) UPSTREAM FROM UNNAMED LEFT-BANK TRIBUTARY, 700 FT (210 M) DOWNSTREAM FROM DEEP RUN, AND 2.8 MI (4.5 KM) EAST OF ATSION.
 DRAINAGE AREA -- 21.2 SQ-MI (54.9 SQ-KM)
 TRIBUTARY TO -- BATSTO RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1975-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.8 (0.08) | 1.3 (0.04) |

01409500 BATSTO RIVER AT BATSTO, NJ

LOCATION -- LAT 39 38 33, LONG 074 39 00, BURLINGTON COUNTY, ON RIGHT BANK 30 FT (10 M) DOWNSTREAM FROM BRIDGE ON STATE HIGHWAY 542 IN BATSTO, AND 1.0 MI (1.6 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 70.5 SQ-MI (182.6 SQ-KM)
 TRIBUTARY TO -- MULLICA RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 126 CU FT/S (3.57 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1310 CU FT/S (37.1 CU M/S)
 MINIMUM 5.7 CU FT/S (0.16 CU M/S)
 REMARKS -- REGULATION REDUCES FLOOD PEAKS AND IS SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1928-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 373 | 273 | 212 | 162 | 136 | 119 | 105 | 92.6 | 81.3 | 70.4 | 58.9 | 51.9 | 46.2 | 42.5 | 40.7 |
| CU M/S | 10.6 | 7.73 | 6.00 | 4.59 | 3.85 | 3.37 | 2.97 | 2.62 | 2.30 | 1.99 | 1.67 | 1.47 | 1.31 | 1.20 | 1.15 |

LOW-FLOW FREQUENCY -- PERIOD 1929-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| CONSECUTIVE DAYS | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|------------------|----------|----------|-----------|-----------|
| 3 | 49 (1.4) | 40 (1.1) | 35 (0.99) | 32 (0.91) |
| 7 | 52 (1.5) | 45 (1.3) | 42 (1.2) | 39 (1.1) |
| 30 | 59 (1.7) | 49 (1.4) | 45 (1.3) | 42 (1.2) |
| 90 | 71 (2.0) | 58 (1.6) | 52 (1.5) | 48 (1.4) |

01409575 LANDING CREEK AT PHILADELPHIA AVENUE, AT EGG HARBOR CITY, NJ

LOCATION -- LAT 39 32 52, LONG 74 37 33, ATLANTIC COUNTY, AT BRIDGE ON PHILADELPHIA AVENUE (STATE ROUTE 563), 0.1 MI (0.2 KM) UPSTREAM FROM UNION CREEK, 1.7 MI (2.7 KM) NORTHEAST OF INTERSECTION OF ROUTES 30, 563 AND 50 IN EGG HARBOR CITY, AND 6.1 MI (9.8 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 4.86 SQ-MI (7.45 SQ-KM)
 TRIBUTARY TO -- MULLICA RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED POOR.

LOW-FLOW FREQUENCY -- PERIOD 1974-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| CONSECUTIVE DAYS | 2 YEARS | 10 YEARS |
|------------------|------------|------------|
| 7 | 2.4 (0.07) | 1.1 (0.03) |

01409730 WEST BRANCH WADING RIVER NEAR CHATSWORTH, NJ

LOCATION -- LAT 39 45 43, LONG 074 32 27, BURLINGTON COUNTY, AT BRIDGE ON COUNTY ROUTE 563, 0.6 MI (1.0 KM) DOWNSTREAM FROM POLE BRANCH, AND 2.9 MI (4.7 KM) SOUTH OF CHATSWORTH.
 DRAINAGE AREA -- 44.8 SQ-MI (116.0 SQ-KM)
 TRIBUTARY TO -- WADING RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED POOR, REGULATION SUSPECTED.

LOW-FLOW FREQUENCY -- PERIOD 1975-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| CONSECUTIVE DAYS | 2 YEARS | 10 YEARS |
|------------------|------------|------------|
| 7 | 7.4 (0.21) | 4.0 (0.11) |

01409780 TULPEHOCKEN CREEK NEAR JENKINS, NJ

LOCATION -- LAT 39 42 51, LONG 074 33 56, BURLINGTON COUNTY, AT BRIDGE ON MAXWELL-FRIENDSHIP ROAD, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH, AND 2.3 MI (3.7 KM) NORTHWEST OF JENKINS.
 DRAINAGE AREA -- 21.9 SQ-MI (56.7 SQ-KM)
 TRIBUTARY TO -- WEST BRANCH WADING RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1975-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| CONSECUTIVE DAYS | 2 YEARS | 10 YEARS |
|------------------|------------|------------|
| 7 | 5.8 (0.16) | 3.3 (0.09) |

01409800 WEST BRANCH WADING RIVER NEAR HARRISVILLE, NJ

LOCATION -- LAT 39 41 23, LONG 074 32 48, BURLINGTON COUNTY, AT GODFREY BRIDGE, 0.8 MI (1.3 KM) WEST OF STATE ROUTE 563, 1.2 MI (1.9 KM) SOUTHWEST OF JENKINS, 2.0 MI (3.2 KM) DOWNSTREAM FROM LITTLE HOSPITALITY BROOK, AND 2.3 MI (3.7 KM) NORTHWEST OF HARRISVILLE.
DRAINAGE AREA -- 83.9 SQ-MI (217.3 SQ-KM)
TRIBUTARY TO -- WADING RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01411000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1957-63
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|----------|-----------|
| 7 | 48 (1.4) | 28 (0.79) |

01409810 WEST BRANCH WADING RIVER NEAR JENKINS, NJ

LOCATION -- LAT 39 41 17, LONG 074 32 54, BURLINGTON COUNTY, ON RIGHT BANK 900 FT (270 M) DOWNSTREAM FROM GODFREY BRIDGE, 2.2 MI (3.5 57) DOWNSTREAM FROM LITTLE HOSPITALITY BROOK, AND 1.2 MI (1.9 KM) SOUTHWEST OF JENKINS.
DRAINAGE AREA -- 84.1 SQ-MI (217.8 SQ-KM)
TRIBUTARY TO -- WADING RIVER
STATION TYPE -- CONTINUOUS RECORD GAGING STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500, AND 01410000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1974-77
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|----------|-----------|
| 7 | 40 (1.1) | 25 (0.71) |

01409970 OSWEGO RIVER AT OSWEGO LAKE, NJ

LOCATION -- LAT 39 43 53, LONG 074 29 21, BURLINGTON COUNTY, AT BRIDGE ON LITTLE HAWKIN ROAD AT OUTLET OF OSWEGO LAKE, 0.6 MI (1.0 KM) DOWNSTREAM FROM BREECHES BRANCH, AND 3.0 MI (4.8 KM) NORTHWEST OF JENKINS.
DRAINAGE AREA -- 64.4 SQ-MI (166.8 SQ-KM)
TRIBUTARY TO -- WADING RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1975-77
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 15 (0.42) | 7.9 (0.22) |

ATLANTIC COASTAL BASINS (LOWER)

01410000 OSWEGO RIVER AT HARRISVILLE, NJ

LOCATION -- LAT 39 39 47, LONG 074 31 26, BURLINGTON COUNTY, ON RIGHT BANK 50 FT (15 M) DOWNSTREAM FROM BRIDGE ON STATE HIGHWAY SPUR 563 AT HARRISVILLE, AND 0.5 MI (0.8 KM) UPSTREAM FROM CONFLUENCE WITH WEST BRANCH WADING RIVER.

DRAINAGE AREA -- 64.0 SQ-MI (165.8 SQ-KM)

TRIBUTARY TO -- WADING RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 87.7 CU FT/S (2.48 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 1220 CU FT/S (34.5 CU M/S)
MINIMUM 4.0 CU FT/S (0.11 CU M/S)

REMARKS -- OCCASIONAL REGULATION REDUCES FLOOD PEAKS AND IS SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1931-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 252 | 194 | 153 | 118 | 97.3 | 84.7 | 74.3 | 65.0 | 56.5 | 47.8 | 38.7 | 33.0 | 27.4 | 24.5 | 22.0 |
| CU M/S | 7.14 | 5.49 | 4.33 | 3.34 | 2.76 | 2.40 | 2.10 | 1.84 | 1.60 | 1.35 | 1.10 | 0.935 | 0.776 | 0.694 | 0.623 |

LOW-FLOW FREQUENCY -- PERIOD 1932-75

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 30 (0.85) | 23 (0.65) | 20 (0.57) | 18 (0.51) |
| 7 | 32 (0.91) | 25 (0.71) | 22 (0.62) | 19 (0.54) |
| 30 | 38 (1.1) | 30 (0.85) | 27 (0.76) | 25 (0.71) |
| 90 | 50 (1.4) | 39 (1.1) | 34 (0.96) | 30 (0.85) |

01410150 EAST BRANCH BASS RIVER NEAR NEW GRETN, NJ

LOCATION -- LAT 39 37 23, LONG 074 26 30, BURLINGTON COUNTY, AT BRIDGE ON STAGE ROAD, 0.7 MI (1.1 KM) WEST OF LAKE ABSEGAMI, 2.2 MI (3.5 KM) NORTH OF NEW GRETN, AND 5.3 MI (8.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 8.11 SQ-MI (21.00 SQ-KM)

TRIBUTARY TO -- MULLICA RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1969-74

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 11 (0.31) | 8.6 (0.24) |

01410200 WEST BRANCH BASS RIVER NEAR NEW GRETN, NJ

LOCATION -- LAT 39 37 26, LONG 074 26 47, BURLINGTON COUNTY, AT BRIDGE ON STAGE ROAD, 0.6 MI (1.0 KM) UPSTREAM FROM MOUTH, 0.9 MI (1.4 KM) WEST OF LAKE ABSEGAMI, AND 2.2 MI (3.5 KM) NORTH OF NEW GRETN.

DRAINAGE AREA -- 6.54 SQ-MI (16.94 SQ-KM)

TRIBUTARY TO -- EAST BRANCH BASS RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01409500 AND 01410000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1969-74

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 5.7 (0.16) | 4.0 (0.11) |

ATLANTIC COASTAL BASINS (LOWER)

01410500 ABSECON CREEK AT ABSECON, NJ

LOCATION -- LAT 39 25 45, LONG 074 31 16, ATLANTIC COUNTY, ON RIGHT BANK 30 FT (10 M) DOWNSTREAM FROM DOUGHTY POND DAM OF ATLANTIC CITY WATER DEPARTMENT, 1.0 MI (1.6 KM) WEST OF ABSECON, AND 3.4 MI (5.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 16.6 SQ-MI (43.0 SQ-KM)

TRIBUTARY TO -- ABSECON BAY

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 27.3 CU FT/S (0.773 CU M/S), ADJUSTED FOR DIVERSION.

DAILY DISCHARGE EXTREMES -- MAXIMUM 233 CU FT/S (6.60 CU M/S)

MINIMUM 0.0 CU FT/S (0.00 CU M/S)

REMARKS -- FLOW REGULATED BY DOUGHTY POND AND KUEHLE RESERVOIR.

DURATION TABLE OF DAILY FLOW -- PERIOD 1961-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 62.6 | 46.5 | 36.4 | 26.8 | 21.7 | 17.9 | 14.7 | 11.7 | 9.02 | 7.50 | 6.23 | 5.12 | 4.02 | 3.28 | 1.60 |
| CU M/S | 1.77 | 1.32 | 1.03 | 0.759 | 0.615 | 0.507 | 0.416 | 0.331 | 0.255 | 0.212 | 0.176 | 0.145 | 0.114 | 0.093 | 0.045 |

LOW-FLOW FREQUENCY -- PERIOD 1962-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

2 YEARS

10 YEARS

7

5.8 (0.16)

3.5 (0.01)

01410775 GREAT EGG HARBOR RIVER AT BERLIN, NJ

LOCATION -- LAT 39 47 39, LONG 074 56 14, CAMDEN COUNTY, AT BRIDGE AND PUMPING STATION ON BERLIN-ALBION ROAD IN BERLIN, AND 8.2 MI (13.2 KM) UPSTREAM FROM FOURMILE BRANCH.

DRAINAGE AREA -- 1.88 SQ-MI (4.87 SQ-KM)

TRIBUTARY TO -- GREAT EGG HARBOR BAY

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000 AND 01475000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1964-74

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

2 YEARS

10 YEARS

7

0.1 (0.00)

0.0 (0.00)

01410784 GREAT EGG HARBOR RIVER NEAR SICKLERVILLE, NJ

LOCATION -- LAT 39 44 02, LONG 074 57 05, CAMDEN COUNTY, AT BRIDGE ON SICKLERVILLE-NEW FREEDOM ROAD (SPUR 536), AND 1.5 MI (2.4 KM) NORTHEAST OF SICKLERVILLE.

DRAINAGE AREA -- 15.1 SQ-MI (39.1 SQ-KM)

TRIBUTARY TO -- GREAT EGG HARBOR BAY

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000 AND 01475000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1971-77

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

2 YEARS

10 YEARS

7

4.4 (0.12)

2.3 (0.07)

01410787 GREAT EGG HARBOR RIVER TRIBUTARY AT SICKLERVILLE, NJ

LOCATION -- LAT 39 43 31, LONG 074 57 39, CAMDEN COUNTY, ON LEFT BANK ON UPSTREAM WINGWALL OF BRIDGE ON BLACKWOOD-NEW BROOKLYN ROAD, 0.7 MI (1.2 KM) NORTHEAST OF SICKERVILLE, AND 0.8 MI (1.3 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 1.64 SQ-MI (4.25 SQ-KM)

TRIBUTARY TO -- GREAT EGG HARBOR RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000, AND 01411500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1972-76

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

2 YEARS

10 YEARS

7

0.1 (0.00)

0.1 (0.00)

01410800 FOURMILE BRANCH NEAR WILLIAMSTOWN, NJ

LOCATION -- LAT 39 42 17, LONG 074 58 53, GLOUCESTER COUNTY, AT HIGHWAY BRIDGE ON SPUR STATE ROUTE 536, 1.1 MI (1.8 KM) SOUTHWEST OF SICKLERVILLE, 1.5 MI (2.4 KM) NORTHEAST OF WILLIAMSTOWN, AND 2.8 MI (4.5 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 5.34 SQ-MI (13.83 SQ-KM)
 TRIBUTARY TO -- GREAT EGG HARBOR RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000 AND 01475000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64, 71
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.8 (0.05) | 1.0 (0.03) |

01410803 FOURMILE BRANCH AT WINSLOW CROSSING, NJ

LOCATION -- LAT 39 42 07, LONG 074 58 11, CAMDEN COUNTY, 1.0 MI (1.6 KM) SOUTH OF SICKLERVILLE AND 2.0 MI (3.2 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 6.22 SQ-MI (16.11 SQ-KM)
 TRIBUTARY TO -- GREAT EGG HARBOR RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000 AND 01475000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1972-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.7 (0.08) | 1.6 (0.05) |

01410810 FOURMILE BRANCH AT NEW BROOKLYN, NJ

LOCATION -- LAT 39 41 47, LONG 074 56 25, CAMDEN COUNTY, ON LEFT BANK 70 FT (20 M) UPSTREAM FROM BRIDGE ON MALAGA ROAD, 0.3 MI (0.5 KM) NORTHEAST OF NEW BROOKLYN, AND 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 7.74 SQ-MI (20.05 SQ-KM)
 TRIBUTARY TO -- GREAT EGG HARBOR RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000, AND 01411500. CORRELATIONS RATED GOOD. SOME REGULATION BY SEWAGE TREATMENT PLANT UPSTREAM.

LOW-FLOW FREQUENCY -- PERIOD 1972-76
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.4 (0.12) | 3.0 (0.08) |

01410820 GREAT EGG HARBOR RIVER NEAR BLUE ANCHOR, NJ

LOCATION -- LAT 39 40 09, LONG 074 54 49, CAMDEN COUNTY, ON DOWNSTREAM SIDE OF BRIDGE ON BROAD LANE ROAD, 2.1 MI (3.4 KM) DOWNSTREAM FROM CONFLUENCE OF FOURMILE BRANCH, AND 1.9 MI (3.1 KM) SOUTHWEST OF BLUE ANCHOR.
 DRAINAGE AREA -- 37.3 SQ-MI (96.6 SQ-KM)
 TRIBUTARY TO -- GREAT EGG HARBOR BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000, AND 01411500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1972-76
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 20 (0.57) | 13 (0.37) |

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, NJ

LOCATION -- LAT 39 35 42, LONG 074 51 06, ATLANTIC COUNTY, ON LEFT BANK 25 FT (8 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 54, 1.0 MI (1.6 KM) SOUTH OF FOLSOM, AND 2.0 MI (3.2 KM) UPSTREAM FROM PENNY POT STREAM.
 DRAINAGE AREA -- 56.3 SQ-MI (145.8 SQ-KM)
 TRIBUTARY TO -- GREAT EGG HARBOR BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 86.4 CU FT/S (2.45 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1300 CU FT/S (36.8 CU M/S)
 MINIMUM 15 CU FT/S (0.42 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1927-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 239 | 186 | 151 | 118 | 99.2 | 86.5 | 75.0 | 65.4 | 55.7 | 46.6 | 36.8 | 30.9 | 26.5 | 23.3 | 21.2 |
| CU M/S | 6.77 | 5.27 | 4.28 | 3.34 | 2.81 | 2.45 | 2.12 | 1.85 | 1.58 | 1.32 | 1.04 | 0.875 | 0.750 | 0.660 | 0.600 |

LOW-FLOW FREQUENCY -- PERIOD 1927-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 30 (0.85) | 24 (0.68) | 21 (0.59) | 19 (0.55) |
| 7 | 32 (0.91) | 25 (0.71) | 22 (0.62) | 20 (0.57) |
| 30 | 36 (1.0) | 28 (0.79) | 24 (0.68) | 22 (0.62) |
| 90 | 46 (1.3) | 35 (0.99) | 30 (0.85) | 27 (0.76) |

01411020 PENNY POT STREAM NEAR FOLSOM, NJ

LOCATION -- LAT 39 37 15, LONG 074 50 48, ATLANTIC COUNTY, AT BRIDGE ON FOURTEENTH STREET, 1.3 MI (2.1 KM) NORTH OF FOLSOM, 1.1 MI (1.8 KM) UPSTREAM FROM STATE ROUTE 54, AND 2.5 MI (4.0 KM) SOUTHWEST OF CENTER OF HAMMONTON.
 DRAINAGE AREA -- 5.35 SQ-MI (13.86 SQ-KM)
 TRIBUTARY TO -- GREAT EGG HARBOR RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000 AND 01411500.
 CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1968-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.8 (0.02) | 0.4 (0.01) |

01411200 BABCOCK CREEK AT MAYS LANDING, NJ

LOCATION -- LAT 39 27 18, LONG 074 43 04, ATLANTIC COUNTY, AT HIGHWAY BRIDGE, 0.6 MI (1.0 KM) NORTHEAST OF MAYS LANDING, AND 0.7 MI (1.1 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 20.0 SQ-MI (51.8 SQ-KM)
 TRIBUTARY TO -- GREAT EGG HARBOR RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409500, 01411000 AND 01411500.
 CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-63

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.7 (0.13) | 2.8 (0.08) |

01411300 TUCKAHOE RIVER AT HEAD OF RIVER, NJ

LOCATION -- LAT 39 18 25, LONG 074 49 15, ATLANTIC COUNTY, AT HIGHWAY BRIDGE ON STATE ROUTE 49, 0.2 MI (0.3 KM) UPSTREAM FROM MCNEALS BRANCH, 0.4 MI (0.6 KM) SOUTHEAST OF HEAD OF RIVER, AND 3.7 MI (6.0 KM) WEST OF TUCKAHOE.
 DRAINAGE AREA -- 30.8 SQ-MI (79.8 SQ-KM)
 TRIBUTARY TO -- GREAT EGG HARBOR BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION

LOW-FLOW FREQUENCY -- PERIOD 1971-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 13 (0.37) | 11 (0.31) |

DELAWARE BAY BASINS

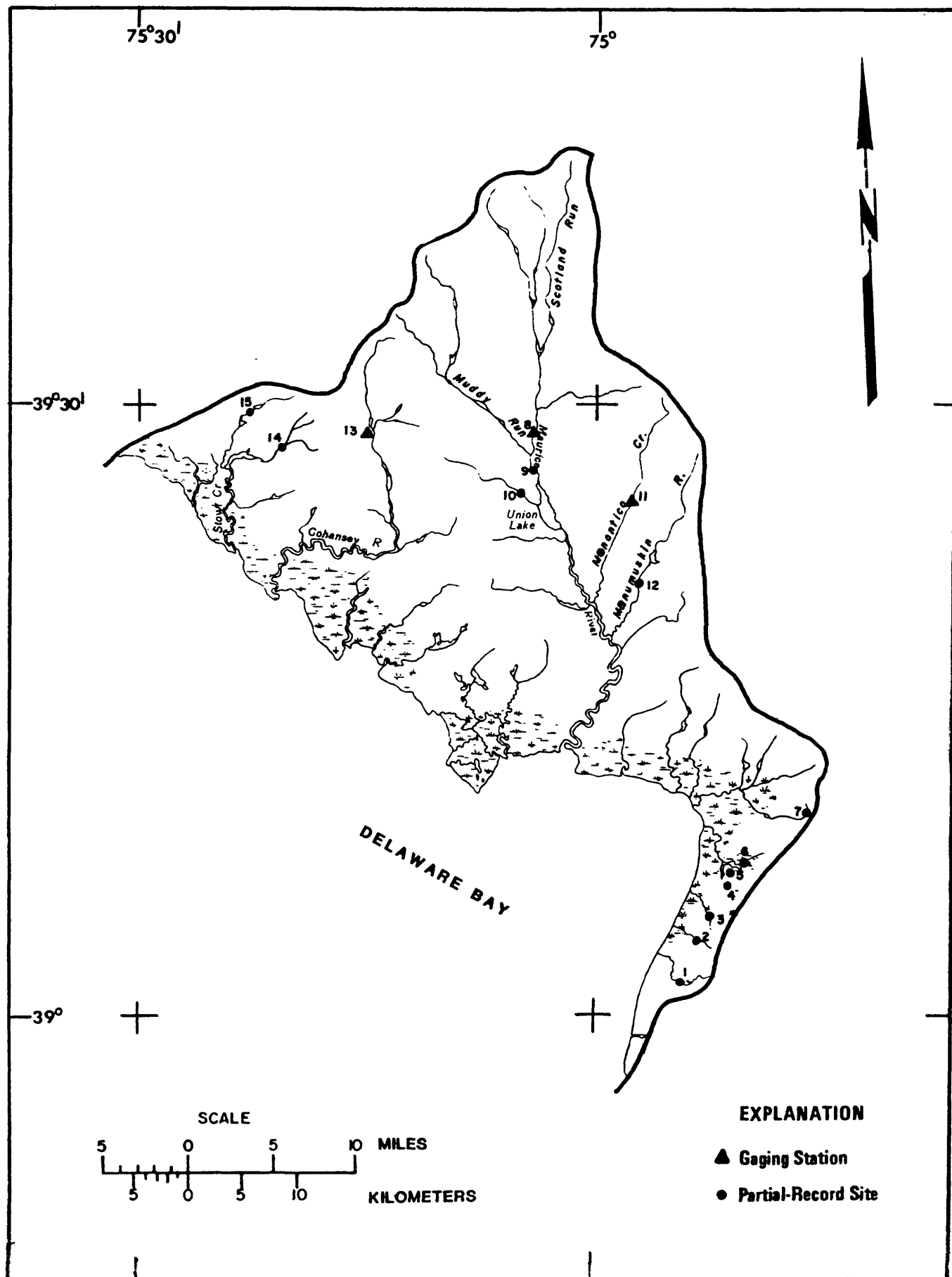


Figure 13.-- Map Segment 5 showing site locations in the Delaware Bay basin

DELAWARE BAY BASINS

| MAP NO. | STATION NUMBER | STATION NAME | QUADRANGLE MAP 7.5 MINUTE SERIES | PAGE |
|------------|-------------------|--|-------------------------------------|------|
| | | DELAWARE BAY BASINS | | |
| | | <u>FISHING CREEK BASIN</u> | | |
| 1 | 01411400 | FISHING CREEK AT RIO GRANDE----- | RIO GRANDE----- | 116 |
| | | <u>GREEN CREEK BASIN</u> | | |
| 2 | 01411404 | GREEN CREEK AT GREEN CREEK----- | RIO GRANDE----- | 116 |
| | | <u>DIAZ CREEK BASIN</u> | | |
| 3 | 01411408 | DIAZ CREEK NEAR CAPE MAY COURT HOUSE----- | STONE HARBOR----- | 116 |
| | | <u>BIDWELL DITCH BASIN</u> | | |
| | | <u>BIDWELL DITCH:</u> | | |
| 4 | 01411410 | BIDWELL DITCH TRIBUTARY NEAR CAPE MAY COURT HOUSE----- | STONE HARBOR----- | 116 |
| 5 | 01411412 | BIDWELL DITCH TRIBUTARY NO. 2 NEAR CAPE MAY COURT HOUSE----- | STONE HARBOR----- | 117 |
| | | <u>GOSHEN CREEK BASIN</u> | | |
| 6 | 01411418 | GOSHEN CREEK AT GOSHEN----- | WOODBINE----- | 117 |
| | | <u>DENNIS CREEK BASIN</u> | | |
| | | <u>DENNIS CREEK:</u> | | |
| 7 | 01411430 | SLUICE CREEK AT CLERMONT----- | WOODBINE----- | 117 |
| | | <u>MAURICE RIVER BASIN</u> | | |
| 8 | 01411500 | MAURICE RIVER AT NORMA----- | MILLVILLE----- | 117 |
| 9 | 01411800 | MAURICE RIVER NEAR MILLVILLE----- | MILLVILLE----- | 118 |
| 10 | 01411850 | MILL CREEK NEAR MILLVILLE----- | MILLVILLE----- | 118 |
| 11 | 01412000 | MENANTICO CREEK NEAR MILLVILLE----- | FIVE POINTS----- | 118 |
| 12 | 01412100 | MANUMUSKIN RIVER NEAR MANUMUSKIN----- | PORT ELIZABETH--- | 118 |
| 13 | 01412500 | WEST BRANCH COHANSEY RIVER AT SEELEY----- | SHILOH----- | 119 |
| | | <u>STOW CREEK BASIN</u> | | |
| 14 | 01413050 | STOW CREEK AT JERICHO----- | SHILOH----- | 119 |
| 15 | 01413060 | CANTON DRAIN NEAR CANTON----- | SALEM----- | 119 |

01411400 FISHING CREEK AT RIO GRANDE, NJ

LOCATION -- LAT 39 01 39, LONG 074 53 48, CAPE MAY COUNTY, AT BRIDGE ON STATE ROUTE 47 AT WILDWOOD PUMPING STATION, 1.4 MI (2.3 KM) NORTHWEST OF RIO GRANDE.
 DRAINAGE AREA -- 2.29 SQ-MI (5.93 SQ-KM)
 TRIBUTARY TO -- DELAWARE BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409500, 01411000 AND 01411500. CORRELATIONS RATED GOOD.

LOW-FLCw FREQUENCY -- PERIOD 1965-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01411404 GREEN CREEK AT GREEN CREEK, NJ

LOCATION -- LAT 39 03 11, LONG 074 54 07, CAPE MAY COUNTY, AT CULVERT ON STATE ROUTE 47 IN GREEN CREEK, 1.3 MI (2.1 KM) UPSTREAM FROM MOUTH, AND 3.0 MI (4.8 KM) NORTHWEST OF RIO GRANDE.
 DRAINAGE AREA -- 2.49 SQ-MI (6.45 SQ-KM)
 TRIBUTARY TO -- DELAWARE BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409500, 01410000, 01411000 AND 01411500. CORRELATIONS RATED GOOD.

LOW-FLCw FREQUENCY -- PERIOD 1965-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01411408 DIAS CREEK NEAR CAPE MAY COURT HOUSE, NJ

LOCATION -- LAT 39 04 24, LONG 074 52 10, CAPE MAY COUNTY, AT CULVERT PIPE ON STAGECOACH ROAD, 2.4 MI (3.9 KM) SOUTHWEST OF CAPE MAY COURT HOUSE, 2.1 MI (3.4 KM) NORTHWEST OF BURLEIGH, AND 3.0 MI (4.8 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 1.27 SQ-MI (3.29 SQ-KM)
 TRIBUTARY TO -- DELAWARE BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409500, 014010000, 01411000 AND 01411500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966-73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01411410 BIDWELL DITCH TRIBUTARY NEAR CAPE MAY COURT HOUSE, NJ

LOCATION -- LAT 39 06 34, LONG 074 50 16, CAPE MAY COUNTY, AT CULVERT PIPE ON GOSHEN ROAD, 2.0 MI (3.2 KM) NORTHWEST OF CAPE MAY COURT HOUSE, 2.3 MI (3.7 KM) SOUTHEAST OF GOSHEN, AND 3.6 MI (5.8 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 0.41 SQ-MI (1.06 SQ-KM)
 TRIBUTARY TO -- BIDWELL DITCH
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409500, 01410000, 01411000 AND 01411500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1967-73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE
 DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01411412 BIDWELL DITCH TRIBUTARY NO. 2 NEAR CAPE MAY COURT HOUSE, NJ

LOCATION -- LAT 39 06 25, LONG 074 50 12, CAPE MAY COUNTY, AT CULVERT PIPE ON GOSHEN ROAD, 1.8 MI (2.9 KM) NORTHWEST OF CAPE MAY COURT HOUSE, 2.3 MI (3.7 KM) SOUTHEAST OF GOSHEN, AND 3.6 MI (5.8 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 0.19 SQ-MI (0.49 SQ-KM)
 TRIBUTARY TO -- BIDWELL DITCH
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409500, 01410000, 01411000 AND 01411500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1967-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01411418 GOSHEN CREEK AT GOSHEN, NJ

LOCATION -- LAT 39 07 39, LONG 074 50 45, CAPE MAY COUNTY, AT CULVERT PIPE ON GOSHEN ROAD, 1.0 MI (1.6 KM) SOUTHEAST OF GOSHEN, 3.3 MI (5.3 KM) NORTHWEST OF CAPE MAY COURT HOUSE, AND 3.3 MI (5.3 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 0.33 SQ-MI (0.85 SQ-KM)
 TRIBUTARY TO -- DELAWARE BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409500, 01411000 AND 01411500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1967-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01411430 SLUICE CREEK AT CLERMONT, NJ

LOCATION -- LAT 39 09 26, LONG 074 46 18, CAPE MAY COUNTY, AT CULVERT PIPE ON STATE ROUTE 83, 0.6 MI (1.0 KM) NORTHWEST OF CLERMONT, 3.7 MI (6.0 KM) SOUTHEAST OF DENNISVILLE, AND 5.6 MI (9.0 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 0.67 SQ-MI (1.74 SQ-KM)
 TRIBUTARY TO -- DENNIS CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409500, 01411000 AND 01411500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1967-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01411500 MAURICE RIVER AT NORMA, NJ

LOCATION -- LAT 39 29 42, LONG 075 04 38, SALEM COUNTY, ON RIGHT BANK JUST UPSTREAM FROM ALMOND ROAD BRIDGE IN NORMA, AND 0.8 MI (1.3 KM) DOWNSTREAM FROM BLACKWATER BRANCH.
 DRAINAGE AREA -- 113 SQ-MI (293 SQ-KM)
 TRIBUTARY TO -- DELAWARE BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 168 CU FT/S (4.76 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 5260 CU FT/S (149 CU M/S)
 MINIMUM 23 CU FT/S (0.65 CU M/S)
 REMARKS -- OCCASIONAL REGULATION; PROBABLY NOT SIGNIFICANT.

DURATION TABLE OF DAILY FLOW -- PERIOD 1933-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 430 | 345 | 287 | 233 | 198 | 173 | 150 | 129 | 108 | 90.0 | 68.8 | 55.3 | 44.1 | 37.7 | 33.5 |
| CU M/S | 12.2 | 9.77 | 8.13 | 6.60 | 5.61 | 4.90 | 4.25 | 3.65 | 3.06 | 2.55 | 1.95 | 1.57 | 1.25 | 1.07 | 0.949 |

LOW-FLOW FREQUENCY -- PERIOD 1934-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|----------|----------|-----------|-----------|
| 3 | 53 (1.5) | 39 (1.1) | 33 (0.93) | 28 (0.79) |
| 7 | 59 (1.7) | 44 (1.2) | 37 (1.0) | 32 (0.91) |
| 30 | 70 (2.0) | 51 (1.4) | 43 (1.2) | 38 (1.1) |
| 90 | 90 (2.5) | 66 (1.9) | 55 (1.6) | 47 (1.3) |

LOCATION -- LAT 39 26 52, LONG 075 04 21, CUMBERLAND COUNTY, AT BRIDGE ON SHERMAN AVENUE, 3.5 MI (5.6 KM) NORTH OF MOUTH OF UNION LAKE IN MILLVILLE, AND 4.0 MI (6.4 KM) SOUTHWEST OF VINELAND.
 DRAINAGE AREA -- 191 SQ-MI (495 SQ-KM)
 TRIBUTARY TO -- DELAWARE BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01411500 AND 01482500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1966-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|----------|----------|
| | 2 YEARS | 10 YEARS |
| 7 | 89 (2.5) | 50 (1.4) |

01411850 MILL CREEK NEAR MILLVILLE, NJ

LOCATION -- LAT 39 25 33, LONG 075 05 11, CUMBERLAND COUNTY, AT BRIDGE ON DIRT ROAD, 1.2 MI (1.9 KM) UPSTREAM FROM MOUTH, AND 3.3 MI (5.3 KM) NORTHWEST OF MILLVILLE.
 DRAINAGE AREA -- 15.1 SQ-MI (39.1 SQ-KM)
 TRIBUTARY TO -- MAURICE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000 AND 01411500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 3.9 (0.11) | 2.2 (0.06) |

01412000 MENANTICO CREEK NEAR MILLVILLE, NJ

LOCATION -- LAT 39 25 12, LONG 074 58 00, CUMBERLAND COUNTY, ON RIGHT BANK OF UPSTREAM SIDE OF MILLVILLE-MILMAY HIGHWAY BRIDGE, 4.0 MI (6.4 KM) NORTHEAST OF MILLVILLE, AND 7.0 MI (11.2 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 22.3 SQ-MI (57.8 SQ-KM)
 TRIBUTARY TO -- MAURICE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 37.4 CU FT/S (1.06 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 847 CU FT/S (24.0 CU M/S)
 MINIMUM 1.4 CU FT/S (0.04 CU M/S)
 REMARKS -- REGULATION MAY BE SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1932-57
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 99.8 | 77.2 | 62.7 | 49.6 | 42.7 | 37.4 | 33.0 | 29.0 | 25.4 | 21.5 | 16.6 | 12.8 | 8.47 | 6.66 | 5.98 |
| CU M/S | 2.83 | 2.19 | 1.78 | 1.40 | 1.21 | 1.06 | 0.935 | 0.821 | 0.719 | 0.609 | 0.470 | 0.362 | 0.240 | 0.189 | 0.169 |

LOW-FLOW FREQUENCY -- PERIOD 1933-57
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | | | |
|----|------------|------------|------------|------------|
| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
| 3 | 9.4 (0.27) | 5.5 (0.16) | 3.9 (0.11) | 2.8 (0.08) |
| 7 | 13 (0.37) | 9.0 (0.25) | 7.3 (0.21) | 6.0 (0.17) |
| 30 | 18 (0.51) | 14 (0.40) | 13 (0.37) | 12 (0.34) |
| 90 | 23 (0.65) | 18 (0.51) | 16 (0.45) | 14 (0.40) |

01412100 MANUMUSKIN RIVER NEAR MANUMUSKIN, NJ

LOCATION -- LAT 39 20 57, LONG 074 57 31, CUMBERLAND COUNTY, AT BRIDGE ON LIGHT-DUTY ROAD, 1.1 MI (1.8 KM) NORTH OF MANUMUSKIN, 2.9 MI (4.7 KM) NORTHEAST OF PORT ELIZABETH, AND 5.0 MI (8.0 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 32.1 SQ-MI (83.1 SQ-KM)
 TRIBUTARY TO -- MAURICE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409500, 01411000 AND 01411500. CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1964-71
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|-----------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 13 (0.37) | 9.5 (0.27) |

01412500 WEST BRANCH COHANSEY RIVER AT SEELEY, NJ

LOCATION -- LAT 39 29 06, LONG 075 15 33, CUMBERLAND COUNTY, ON RIGHT BANK 15 FT (5 M) UPSTREAM FROM COUNTY BRIDGE H-31 AT SEELEY, 450 FT (140 M) UPSTREAM FROM MOUTH, AND 4.1 MI (6.6 KM) NORTHWEST OF BRIDGETON.
 DRAINAGE AREA -- 2.55 SQ-MI (6.60 SQ-KM)
 TRIBUTARY TO -- COHANSEY RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 1.81 CU FT/S (0.051 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 95 CU FT/S (2.7 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- DIVERSION SIGNIFICANT AT LOW FLOW DURING GROWING SEASON.

DURATION TABLE OF DAILY FLOW -- PERIOD 1952-67

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 5.03 | 3.38 | 2.77 | 2.25 | 1.99 | 1.80 | 1.60 | 1.39 | 1.22 | 1.04 | 0.838 | 0.715 | 0.519 | 0.383 | 0.299 |
| CU M/S | 0.142 | 0.096 | 0.078 | 0.064 | 0.056 | 0.051 | 0.045 | 0.039 | 0.035 | 0.029 | 0.024 | 0.020 | 0.015 | 0.011 | 0.008 |

LOW-FLOW FREQUENCY -- PERIOD 1953-67

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 0.8 (0.02) | 0.4 (0.01) | 0.2 (0.01) | 0.1 (0.00) |
| 7 | 0.9 (0.03) | 0.4 (0.01) | 0.2 (0.01) | 0.2 (0.01) |
| 30 | 1.1 (0.03) | 0.6 (0.02) | 0.5 (0.01) | 0.4 (0.01) |
| 90 | 1.3 (0.04) | 0.8 (0.02) | 0.6 (0.02) | 0.5 (0.01) |

01413050 STOW CREEK AT JERICHO, NJ

LOCATION -- LAT 39 28 14, LONG 075 21 10, CUMBERLAND COUNTY, AT BRIDGE ON TATTLETOWN-JERICHO ROAD, 0.6 MI (1.0 KM) ABOVE LONG BRANCH RUN, AND 3.0 MI (4.8 KM) NORTHWEST OF SHILOH.
 DRAINAGE AREA -- 8.00 SQ-MI (20.72 SQ-KM)
 TRIBUTARY TO -- DELAWARE BAY
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411500, 01477120 AND 01482500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1966-74

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.7 (0.08) | 1.2 (0.03) |

01413060 CANTON DRAIN NEAR CANTON, NJ

LOCATION -- LAT 39 30 03, LONG 075 23 06, SALEM COUNTY, AT HIGHWAY BRIDGE ON TATTLETOWN-JERICHO ROAD, 0.2 MI (0.3 KM) DOWNSTREAM FROM WOODMERE LAKE, 2.6 MI (4.2 KM) NORTHEAST OF CANTON, 3.5 MI (5.6 KM) SOUTHEAST OF QUINTON, AND 5.5 MI (8.8 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 2.50 SQ-MI (6.48 SQ-KM)
 TRIBUTARY TO -- STOW CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01411500 AND 01482500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1959-63

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.9 (0.03) | 0.4 (0.01) |

DELAWARE RIVER BASIN (UPPER)

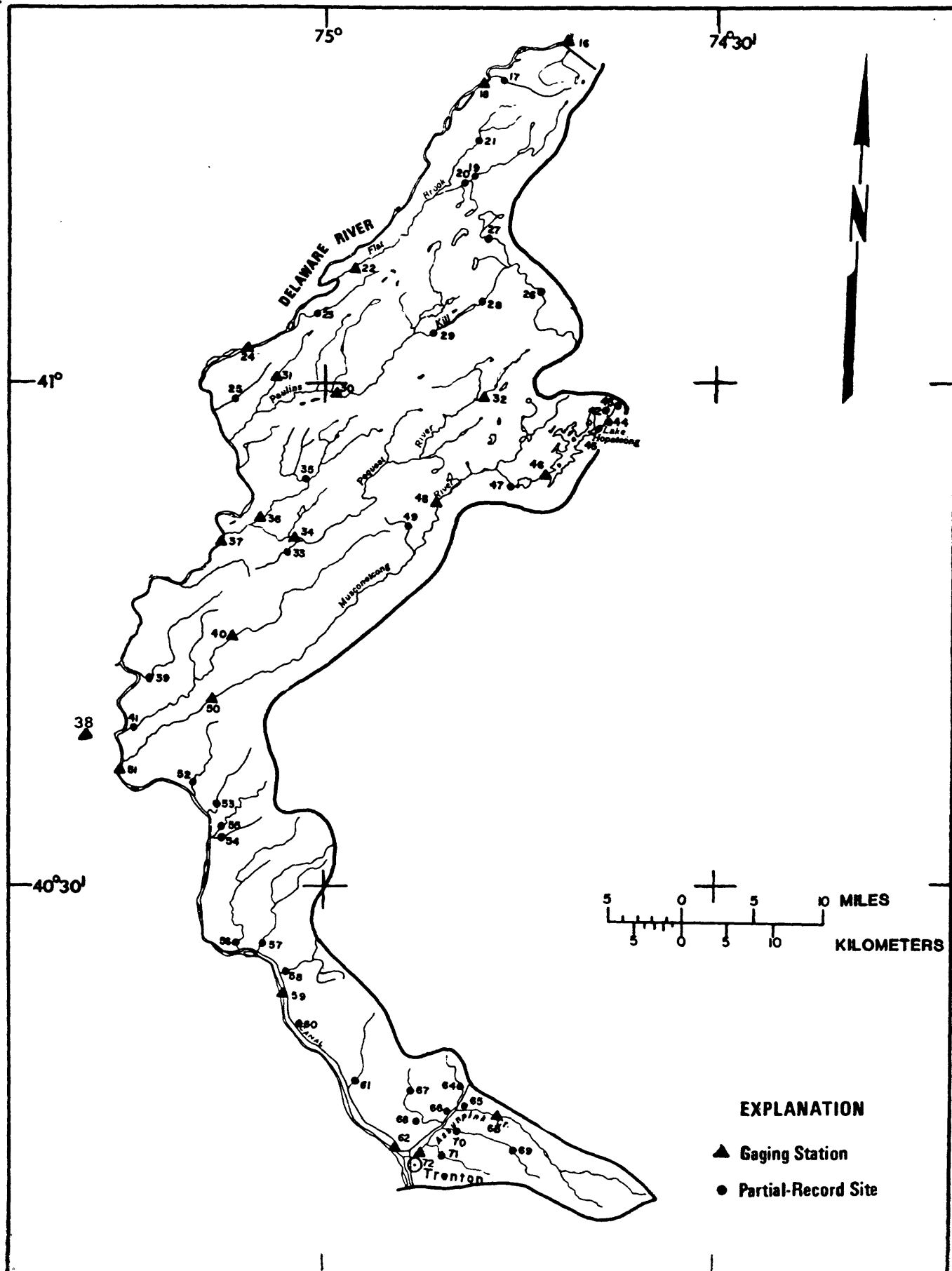


Figure 14.-- Map Segment 6 showing site locations in the upper part of the Delaware River basin

| MAP NO. | STATION NUMBER | STATION NAME | QUADRANGLE MAP 7.5 MINUTE SERIES | PAGE |
|------------------------------|----------------|---|----------------------------------|------|
| DELAWARE RIVER BASIN (UPPER) | | | | |
| 16 | 01434000 | DELAWARE RIVER AT PORT JERVIS, NY----- | PORT JERVIS SOUTH | 124 |
| 17 | 01438400 | SHIMERS BROOK NEAR MONTAGUE----- | MILFORD----- | 124 |
| 18 | 01438500 | DELAWARE RIVER AT MONTAGUE----- | MILFORD----- | 125 |
| 19 | 01439800 | BIG FLAT BROOK NEAR HAINESVILLE----- | CULVERS GAP----- | 125 |
| 20 | 01439830 | BIG FLAT BROOK AT TUTTLES CORNER----- | CULVERS GAP----- | 125 |
| 21 | 01439900 | LITTLE FLAT BROOK AT HAINESVILLE----- | CULVERS GAP----- | 126 |
| 22 | 01440000 | FLAT BROOK NEAR FLATBROOKVILLE----- | FLATBROOKVILLE--- | 126 |
| 23 | 01440100 | VANCAMPENS BROOK NEAR MILLBROOK----- | BUSHKILL----- | 126 |
| 24 | 01440200 | DELAWARE RIVER BELOW TOCKS ISLAND, NEAR DELAWARE WATER GAP, PA----- | BUSHKILL----- | 127 |
| 25 | 01442800 | STONY BROOK NEAR COLUMBIA----- | PORTLAND----- | 127 |
| 26 | 01443300 | PAULINS KILL AT LAFAYETTE----- | NEWTON EAST----- | 127 |
| DRY BROOK: | | | | |
| 27 | 01443400 | CULVERS CREEK AT BRANCHVILLE----- | CULVERS GAP----- | 127 |
| 28 | 01443450 | PAULINS KILL NEAR NEWTON----- | NEWTON WEST----- | 128 |
| 29 | 01443460 | PAULINS KILL AT PAULINS KILL----- | NEWTON WEST----- | 128 |
| 30 | 01443500 | PAULINS KILL AT BLAIRSTOWN----- | BLAIRSTOWN----- | 128 |
| 31 | 01443900 | YARDS CREEK NEAR BLAIRSTOWN----- | PORTLAND----- | 129 |
| 32 | 01445000 | PEQUEST RIVER AT HUMTSVILLE----- | TRANQUILITY----- | 129 |
| 33 | 01445490 | FURNACE BROOK AT OXFORD----- | WASHINGTON----- | 129 |
| 34 | 01445500 | PEQUEST RIVER AT PEQUEST----- | WASHINGTON----- | 130 |
| 35 | 01445900 | HONEY RUN NEAR HOPE----- | BLAIRSTOWN----- | 130 |
| 36 | 01446000 | BEAVER BROOK NEAR BELVIDERE----- | BELVIDERE----- | 130 |
| 37 | 01446500 | DELAWARE RIVER AT BELVIDERE----- | BELVIDERE----- | 131 |
| 38 | 01453000 | LEHIGH RIVER AT BETHLEHEM, PA----- | ALLENTOWN EAST--- | 131 |
| 39 | 01455100 | LOPATCONG CREEK AT PHILLIPSBURG----- | EASTON----- | 132 |
| 40 | 01455200 | POHATCONG CREEK AT NEW VILLAGE----- | BLOOMSBURY----- | 132 |
| 41 | 01455300 | POHATCONG CREEK AT CARPENTERSVILLE----- | RIEGELSVILLE----- | 132 |
| MUSCONETCONG RIVER: | | | | |
| 42 | 01455350 | WELDON BROOK NEAR WOODPORT----- | DOVER----- | 132 |
| 43 | 01455355 | BEAVER BROOK NEAR WELDON----- | DOVER----- | 133 |
| 44 | 01455360 | BEAVER BROOK NEAR WOODPORT----- | DOVER----- | 133 |
| 45 | 01455370 | WELDON BROOK AT HURDTOWN----- | DOVER----- | 133 |
| 46 | 01455500 | MUSCONETCONG RIVER AT OUTLET OF LAKE HOPATCONG----- | STANHOPE----- | 133 |
| 47 | 01455550 | MUSCONETCONG RIVER AT STANHOPE----- | STANHOPE----- | 134 |
| 48 | 01456000 | MUSCONETCONG RIVER NEAR HACKETTSTOWN----- | TRANQUILITY----- | 134 |
| 49 | 01456100 | HATCHERY BROOK AT HACKETTSTOWN----- | HACKETTSTOWN----- | 134 |
| 50 | 01457000 | MUSCONETCONG RIVER NEAR BLOOMSBURY----- | BLOOMSBURY----- | 135 |
| 51 | 01457500 | DELAWARE RIVER AT RIEGELSVILLE----- | RIEGELSVILLE----- | 135 |
| 52 | 01458100 | HAKIHOKAKE CREEK AT MILFORD----- | FRENCHTOWN----- | 136 |
| 53 | 01458400 | HAKIHOKAKE CREEK NEAR FRENCHTOWN----- | FRENCHTOWN----- | 136 |
| 54 | 01458600 | NISHISAKAWICK CREEK AT FRENCHTOWN----- | FRENCHTOWN----- | 136 |
| 55 | 01458700 | LITTLE NISHISAKAWICK CREEK AT FRENCHTOWN----- | FRENCHTOWN----- | 136 |
| 56 | 01460900 | LOCKATONG CREEK NEAR RAVEN ROCK----- | LUMBERVILLE----- | 137 |
| 57 | 01461300 | WICKECHEOKE CREEK AT STOCKTON----- | STOCKTON----- | 137 |
| 58 | 01461900 | ALEXAUKEN CREEK NEAR LAMBERTVILLE----- | STOCKTON----- | 137 |
| 59 | 01462000 | DELAWARE RIVER AT LAMBERTVILLE----- | LAMBERTVILLE----- | 137 |
| 60 | 01462200 | MOORE CREEK NEAR TITUSVILLE----- | LAMBERTVILLE----- | 138 |
| 61 | 01462800 | JACOBS CREEK AT SOMERSET----- | PENNINGTON----- | 138 |
| 62 | 01463500 | DELAWARE RIVER AT TRENTON----- | TRENTON WEST----- | 138 |
| 63 | 01463620 | ASSUNPINK CREEK NEAR CLARKSVILLE----- | PRINCETON----- | 139 |
| 64 | 01463650 | SHIPETAUKIN CREEK AT LAWRENCEVILLE----- | PRINCETON----- | 139 |
| 65 | 01463670 | SHIPETAUKIN CREEK AT BAKERSVILLE----- | PRINCETON----- | 139 |
| 66 | 01463690 | LITTLE SHABAKUNK CREEK AT BAKERSVILLE----- | PRINCETON----- | 139 |
| 67 | 01463750 | SHABAKUNK CREEK AT EWINGVILLE----- | PENNINGTON----- | 140 |
| 68 | 01463790 | WEST BRANCH SHABAKUNK CREEK NEAR EWINGVILLE----- | TRENTON WEST----- | 140 |
| 69 | 01463830 | MIRY RUN AT ROBBINSVILLE----- | ALLENTOWN----- | 140 |
| 70 | 01463860 | MIRY RUN AT MERCERVILLE----- | TRENTON EAST----- | 140 |
| 71 | 01463980 | POND RUN AT TRENTON----- | TRENTON EAST----- | 141 |
| 72 | 01464000 | ASSUNPINK CREEK AT TRENTON----- | TRENTON EAST----- | 141 |

DELAWARE RIVER BASIN (UPPER)

01434000 DELAWARE RIVER AT PORT JERVIS, NY

LOCATION -- LAT 41 22 14, LONG 074 41 52, PIKE COUNTY, PA, ON RIGHT BANK 250 FT (80 M) DOWNSTREAM FROM BRIDGE ON U.S. HIGHWAYS 6 AND 209 IN PORT JERVIS, 1.2 MI (1.9 KM) UPSTREAM FROM NEVERSINK RIVER, AND 6.5 MI (10.5 KM) DOWNSTREAM FROM MONGAUP RIVER.

DRAINAGE AREA -- 3076 SQ-MI (7967 SQ-KM)

TRIBUTARY TO -- DELAWARE BAY

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

DAILY DISCHARGE EXTREMES -- MAXIMUM 163000 CU FT/S (616 CU M/S)

MINIMUM 175 CU FT/S (4.96 CU M/S)

REMARKS -- REGULATION NOVEMBER 1925 TO DECEMBER 1954 REDUCED FLOOD PEAKS AND AUGMENTED LOW FLOW. SINCE JANUARY 1955 REGULATION AND DIVERSION HAVE REDUCED FLOOD PEAKS AND TOTAL RUNOFF, AND HAVE BEEN VERY SIGNIFICANT AT LOW FLOW. SINCE 1964, ALL EXISTING RESERVOIRS HAVE BEEN IN OPERATION.

DURATION TABLE OF DAILY FLOW -- PERIOD 1906-25

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 27600 | 17800 | 12400 | 7840 | 5450 | 4010 | 3070 | 2360 | 1780 | 1270 | 798 | 577 | 463 | 404 | 370 |
| CU M/S | 782 | 504 | 351 | 222 | 154 | 114 | 86.9 | 66.8 | 50.4 | 36.0 | 22.6 | 16.3 | 13.1 | 11.4 | 10.5 |

DURATION TABLE OF DAILY FLOW -- PERIOD 1965-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 20100 | 14500 | 10200 | 6560 | 4950 | 3790 | 3000 | 2570 | 2240 | 1910 | 1470 | 1100 | 843 | 738 | 650 |
| CU M/S | 569 | 411 | 289 | 186 | 140 | 107 | 85.0 | 72.8 | 63.4 | 54.1 | 41.6 | 31.2 | 23.9 | 20.9 | 18.4 |

LOW-FLOW FREQUENCY -- PERIOD 1905-25

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|----------|-----------|
| 7 | 589 (17) | 316 (8.9) |

LOW-FLOW FREQUENCY -- PERIOD 1964-75

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|-----------|----------|
| 7 | 1360 (39) | 700 (20) |

01438400 SHIMERS BROOK NEAR MONTAGUE, NJ

LOCATION -- LAT 41 18 47, LONG 074 46 52, SUSSEX COUNTY, AT CULVERT ON NEW JERSEY HIGHWAY 521 (RIVER ROAD), AND 1.0 MI (1.6 KM) NORTHEAST OF MONTAGUE.

DRAINAGE AREA -- 7.07 SQ-MI (18.31 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1958-64

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.7 (0.05) | 1.0 (0.03) |

01438500 DELAWARE RIVER AT MONTAGUE, NJ

LOCATION -- LAT 41 18 33, LONG 074 47 44, SUSSEX COUNTY, ON RIGHT BANK 0.4 MI (0.6 KM) UPSTREAM FROM TOLL BRIDGE AT MONTAGUE, 0.8 MI (1.3 KM) DOWNSTREAM FROM SAWKILL CREEK, AND AT MILE 246.3 (396.3 KM).
 DRAINAGE AREA -- 3480 SQ-MI (9013 SQ-KM)
 TRIBUTARY TO -- DELAWARE BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 5877 CU FT/S (166 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 187000 CU FT/S (295 CU M/S)
 MINIMUM 428 CU FT/S (12.1 CU M/S)
 REMARKS -- REGULATION PRIOR TO DECEMBER 1953 REDUCED FLOOD PEAKS AND AUGMENTED LOW FLOW. SINCE DECEMBER 1953 REGULATION AND DIVERSION HAVE REDUCED FLOOD PEAKS AND TOTAL RUNOFF AND HAVE BEEN VERY SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1940-53

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 30200 | 19900 | 14200 | 9790 | 7380 | 5530 | 4230 | 3300 | 2530 | 1940 | 1380 | 993 | 748 | 645 | 572 |
| CU M/S | 855 | 564 | 402 | 277 | 209 | 157 | 120 | 93.5 | 71.6 | 54.9 | 39.1 | 28.1 | 21.2 | 18.3 | 16.2 |

DURATION TABLE OF DAILY FLOW -- PERIOD 1955-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 23300 | 16000 | 11400 | 7440 | 5500 | 4150 | 3300 | 2740 | 2310 | 1920 | 1540 | 1300 | 1050 | 940 | 823 |
| CU M/S | 660 | 453 | 323 | 211 | 156 | 118 | 93.5 | 77.6 | 65.4 | 54.4 | 43.6 | 36.8 | 29.7 | 26.6 | 23.3 |

LOW-FLOW FREQUENCY -- PERIOD 1941-53

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 830 (24) | 620 (18) | 550 (16) | 510 (14) |
| 7 | 1100 (31) | 780 (22) | 670 (19) | 590 (17) |
| 30 | 1300 (37) | 940 (27) | 810 (23) | 720 (20) |
| 90 | 2000 (57) | 1300 (37) | 1110 (31) | 1000 (28) |

LOW-FLOW FREQUENCY -- PERIOD 1955-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|----------|
| 7 | 1400 (40) | 830 (24) |

01439800 BIG FLAT BROOK NEAR HAINESVILLE, NJ

LOCATION -- LAT 41 12 23, LONG 074 48 14, SUSSEX COUNTY, AT BRIDGE ON U.S. ROUTE 206, 1.2 MI (1.9 KM) SOUTHEAST OF LAYTON, 1.4 MI (2.3 KM) DOWNSTREAM FROM STONY BROOK, AND 3.1 MI (5.0 KM) SOUTH OF HAINESVILLE.
 DRAINAGE AREA -- 22.6 SQ-MI (58.5 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64, 66

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.9 (0.08) | 1.5 (0.04) |

01439830 BIG FLAT BROOK AT TUTTLES CORNER, NJ

LOCATION -- LAT 41 12 00, LONG 074 48 56, SUSSEX COUNTY, AT BRIDGE ON STATE ROUTE 521, 0.7 MI (1.1 KM) WEST OF INTERSECTION WITH U.S. ROUTE 206 AT TUTTLES CORNER, 1.2 MI (1.9 KM) SOUTH OF LAYTON, AND 2.0 MI (3.2 KM) ABOVE LITTLE FLAT BROOK.
 DRAINAGE AREA -- 28.2 SQ-MI (73.0 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963, 70-73

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.6 (0.10) | 2.0 (0.06) |

01439900 LITTLE FLAT BROOK AT HAINESVILLE, NJ

LOCATION -- LAT 41 14 35, LONG 074 48 05, SUSSEX COUNTY, AT BRIDGE ON U.S. ROUTE 206 AT HAINESVILLE, 1.1 MI (1.8 KM) DOWNSTREAM FROM BEERS KILL, AND 2.2 MI (3.5 KM) NORTHEAST OF LAYTON.
 DRAINAGE AREA -- 7.73 SQ-MI (20.02 SQ-KM)
 TRIBUTARY TO -- FLAT BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.0 (0.03) | 0.5 (0.01) |

01440000 FLAT BROOK NEAR FLATBROOKVILLE, NJ

LOCATION -- LAT 41 06 24, LONG 074 57 09, SUSSEX COUNTY, ON RIGHT BANK 1.0 MI (1.6 KM) UPSTREAM FROM FLATBROOKVILLE, AND 1.5 MI (2.4 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 65.1 SQ-MI (168.6 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 108 CU FT/S (3.06 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 6310 CU FT/S (179 CU M/S)
 MINIMUM 4.1 CU FT/S (0.12 CU M/S)
 REMARKS -- REGULATION PRIOR TO 1935 SIGNIFICANT AT LOW FLOW; OCCASIONAL REGULATION SINCE 1935 PROBABLY NOT SIGNIFICANT.

DURATION TABLE OF DAILY FLOW -- PERIOD 1924-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 502 | 331 | 235 | 157 | 117 | 89.1 | 70.2 | 52.7 | 38.5 | 26.0 | 17.4 | 13.3 | 10.0 | 8.54 | 7.66 |
| CU M/S | 14.2 | 9.37 | 6.66 | 4.45 | 3.31 | 2.52 | 1.99 | 1.49 | 1.09 | 0.736 | 0.493 | 0.377 | 0.283 | 0.242 | 0.217 |

LOW-FLOW FREQUENCY -- PERIOD 1925-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|------------|------------|------------|
| 3 | 13 (0.37) | 8.8 (0.25) | 7.4 (0.21) | 6.5 (0.18) |
| 7 | 13 (0.37) | 9.3 (0.26) | 7.8 (0.22) | 6.8 (0.19) |
| 30 | 17 (0.48) | 11 (0.31) | 9.6 (0.27) | 8.5 (0.24) |
| 90 | 26 (0.74) | 16 (0.45) | 13 (0.37) | 11 (0.31) |

01440100 VANCAMPENS BROOK NEAR MILLBROOK, NJ

LOCATION -- LAT 41 03 30, LONG 075 00 10, WARREN COUNTY, AT BRIDGE ON PRIVATE ROAD TO ST. VINCENTS HOME FOR BOYS, 0.1 MI (0.2 KM) DOWNSTREAM FROM BRIDGE ON STATE HIGHWAY 521 (RIVER ROAD), 2.0 MI (3.2 KM) UPSTREAM FROM MOUTH, AND 2.5 MI (4.0 KM) SOUTHWEST OF MILLBROOK.
 DRAINAGE AREA -- 7.27 SQ-MI (18.83 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01440000, 01443500 AND 01445500. CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1958-68
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.5 (0.04) | 0.8 (0.02) |

01440200 DELAWARE RIVER BELOW TOCKS ISLAND, NEAR DELAWARE WATER GAP, PA

LOCATION -- LAT 41 00 42, LONG 075 05 09, WARREN COUNTY, ON LEFT BANK 40 FT (12 M) STREAMWARD FROM RIVER ROAD, 1.0 MI (1.6 KM) DOWNSTREAM FROM TOCKS ISLAND, 3.7 MI (6.0 KM) NORTHEAST OF DELAWARE WATER GAP, 4.0 MI (6.4 KM) UPSTREAM FROM BRIDGE ON INTERSTATE-80, AND AT MILE 216.1 (347.7 KM).
 DRAINAGE AREA -- 3,850 SQ-MI (9,972 SQ-KM)
 TRIBUTARY TO -- DELAWARE BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 6222 CU FT/S (176 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 95600 CU FT/S (707 CU M/S)
 MINIMUM 580 CU FT/S (16.4 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1965-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 25100 | 18000 | 13200 | 8770 | 6610 | 5110 | 3950 | 3270 | 2810 | 2410 | 1880 | 1340 | 1040 | 929 | 828 |
| CU M/S | 711 | 510 | 374 | 248 | 187 | 145 | 112 | 92.6 | 79.6 | 68.3 | 53.2 | 37.9 | 29.5 | 26.3 | 23.4 |

LOW-FLOW FREQUENCY -- PERIOD 1966-75

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 2000 (57) | 1000 (28) |

01442800 STONY BROOK NEAR COLUMBIA, NJ

LOCATION -- LAT 40 56 54, LONG 075 05 55, WARREN COUNTY, AT BRIDGE ON PRIVATE ROAD, 0.9 MI (1.4 KM) UPSTREAM FROM MOUTH, AND 1.5 MI (2.4 KM) NORTH OF COLUMBIA.
 DRAINAGE AREA -- 3.51 SQ-MI (9.09 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01440000, 01443500 AND 01445500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1958-68

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01443300 PAULINS KILL AT LAFAYETTE, NJ

LOCATION -- LAT 41 06 23, LONG 074 42 00, SUSSEX COUNTY, AT BRIDGE ON STATE ROUTE 15, 0.2 MI (0.3 KM) DOWNSTREAM FROM SMALL TRIBUTARY, 0.8 MI (1.3 KM) NORTHWEST OF LAFAYETTE, AND 5.0 MI (8.0 KM) NORTHEAST OF NEWTON.
 DRAINAGE AREA -- 33.0 SQ-MI (85.5 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64, 66

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 10 (0.28) | 7.0 (0.20) |

01443400 CULVERS CREEK AT BRANCHVILLE, NJ

LOCATION -- LAT 41 08 49, LONG 074 45 35, SUSSEX COUNTY, AT CULVERT ON U.S. ROUTE 206, 0.4 MI (0.6 KM) WEST OF BRANCHVILLE, 0.8 MI (1.3 KM) UPSTREAM FROM MOUTH, AND 2.1 MI (3.4 KM) DOWNSTREAM FROM OUTLET OF CULVERS LAKE.
 DRAINAGE AREA -- 11.2 SQ-MI (29.0 SQ-KM)
 TRIBUTARY TO -- DRY BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.0 (0.00) |

01443450 PAULINS KILL NEAR NEWTON, NJ

LOCATION -- LAT 41 04 59, LONG 074 46 57, SUSSEX COUNTY, AT BRIDGE AT INLET TO PAULINS KILL LAKE, AND 2.4 MI (3.9 KM) NORTHWEST OF NEWTON.
 DRAINAGE AREA -- 69.0 SQ-MI (178.7 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 13 (0.37) | 6.9 (0.20) |

01443460 PAULINS KILL AT PAULINS KILL, NJ

LOCATION -- LAT 41 03 08, LONG 074 49 42, SUSSEX COUNTY, AT BRIDGE ON PAULINS KILL LAKE ROAD, 300 FT (90 M) DOWNSTREAM FROM PAULINS KILL LAKE, AND 0.5 MI (0.8 KM) SOUTHWEST OF PAULINS KILL.
 DRAINAGE AREA -- 72.9 SQ-MI (188.8 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01368000, 01440000 AND 01443500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 19 (0.54) | 11 (0.31) |

01443500 PAULINS KILL AT BLAIRSTOWN, NJ

LOCATION -- LAT 40 58 44, LONG 074 57 15, WARREN COUNTY, ON RIGHT BANK, 1,200 FT (370 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 94 IN BLAIRSTOWN, 1,400 FT (430 M) UPSTREAM FROM BLAIRS CREEK, AND 10 MI (16 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 126 SQ-MI (326 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 191 CU FT/S (5.41 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 5950 CU FT/S (168 CU M/S)
 MINIMUM 5.0 CU FT/S (0.14 CU M/S)
 REMARKS -- SLIGHT REGULATION; PROBABLY NOT SIGNIFICANT.

DURATION TABLE OF DAILY FLOW -- PERIOD 1922-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 835 | 569 | 409 | 285 | 214 | 166 | 129 | 96.3 | 71.1 | 49.9 | 33.6 | 25.8 | 20.2 | 18.1 | 17.0 |
| CU M/S | 23.6 | 16.1 | 11.6 | 8.07 | 6.06 | 4.70 | 3.65 | 2.73 | 2.01 | 1.41 | 0.952 | 0.731 | 0.572 | 0.513 | 0.481 |

LOW-FLOW FREQUENCY -- PERIOD 1923-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 25 (0.71) | 17 (0.48) | 14 (0.40) | 12 (0.34) |
| 7 | 27 (0.76) | 19 (0.54) | 16 (0.45) | 14 (0.40) |
| 30 | 35 (0.99) | 24 (0.68) | 20 (0.57) | 17 (0.48) |
| 90 | 50 (1.4) | 32 (0.91) | 26 (0.74) | 22 (0.62) |

01443900 YARDS CREEK NEAR BLAIRSTOWN, NJ

LOCATION -- LAT 40 58 51, LONG 075 02 25, WARREN COUNTY, ON LEFT BANK 100 FT (30 M) UPSTREAM OF BRIDGE ON HAINESBURG-MOUNT VERNON ROAD, 2.2 MI (3.5 KM) NORTHEAST OF HAINESBURG, 2.4 MI (3.9 KM) UPSTREAM FROM MOUTH, AND 4.2 MI (6.8 KM) WEST OF BLAIRSTOWN.
 DRAINAGE AREA -- 7.16 SQ-MI (18.54 SQ-KM)
 TRIBUTARY TO -- PAULINS KILL
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 10.5 CU FT/S (0.297 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 103 CU FT/S (2.92 CU M/S)
 MINIMUM 0.02 CU FT/S (0.000 CU M/S)
 REMARKS -- REGULATED BY YARDS CREEK RESERVOIR.

DURATION TABLE OF DAILY FLOW -- PERIOD 1967-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 50.3 | 37.9 | 25.8 | 18.5 | 13.3 | 8.97 | 5.56 | 3.29 | 2.08 | 1.40 | 0.982 | 0.789 | 0.633 | 0.507 | 0.431 |
| CU M/S | 1.42 | 1.07 | 0.731 | 0.524 | 0.377 | 0.254 | 0.157 | 0.093 | 0.059 | 0.040 | 0.028 | 0.022 | 0.018 | 0.014 | 0.012 |

LOW-FLOW FREQUENCY -- PERIOD 1968-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.7 (0.02) | 0.5 (0.01) |

01445000 PEQUEST RIVER AT HUNTSVILLE, NJ

LOCATION -- LAT 40 58 49, LONG 074 46 38, SUSSEX COUNTY, ON RIGHT BANK 20 FT (6 M) UPSTREAM FROM HIGHWAY BRIDGE IN HUNTSVILLE, AND 0.4 MI (0.6 KM) DOWNSTREAM FROM EAST BRANCH.
 DRAINAGE AREA -- 31.4 SQ-MI (81.3 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 46.0 CU FT/S (1.30 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 481 CU FT/S (13.6 CU M/S)
 MINIMUM 1.6 CU FT/S (0.05 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1940-62

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 169 | 128 | 102 | 76.0 | 58.0 | 44.4 | 34.1 | 25.0 | 17.2 | 11.0 | 6.20 | 4.34 | 2.99 | 2.57 | 2.34 |
| CU M/S | 4.79 | 3.63 | 2.89 | 2.15 | 1.64 | 1.26 | 0.966 | 0.708 | 0.487 | 0.312 | 0.176 | 0.123 | 0.085 | 0.073 | 0.066 |

LOW-FLOW FREQUENCY -- PERIOD 1941-62

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 4.6 (0.13) | 2.6 (0.07) | 2.0 (0.06) | 1.6 (0.05) |
| 7 | 4.9 (0.14) | 2.8 (0.08) | 2.1 (0.06) | 1.7 (0.05) |
| 30 | 6.7 (0.19) | 3.7 (0.10) | 2.8 (0.08) | 2.2 (0.06) |
| 90 | 11 (0.31) | 6.0 (0.17) | 4.6 (0.13) | 3.8 (0.11) |

01445490 FURNACE BROOK AT OXFORD, NJ

LOCATION -- LAT 40 48 15, LONG 074 59 42, WARREN COUNTY, AT BRIDGE ON STATE ROUTE 31 IN OXFORD, 2.4 MI (3.9 KM) UPSTREAM FROM MOUTH, AND 3.2 MI (5.1 KM) NORTH OF WASHINGTON.
 DRAINAGE AREA -- 4.29 SQ-MI (11.11 SQ-KM)
 TRIBUTARY TO -- PEQUEST RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01443500 AND 01445500.
 CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1965-69, 71-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.4 (0.04) | 0.8 (0.02) |

01445500 PEQUEST RIVER AT PEQUEST, NJ

LOCATION -- LAT 40 49 43, LONG 074 58 45, WARREN COUNTY, ON RIGHT BANK IN PEQUEST, 100 FT (30 M) UPSTREAM FROM LEHIGH AND HUDSON RIVER RAILWAY BRIDGE, AND 300 FT (90 M) DOWNSTREAM FROM FURNACE BROOK.
 DRAINAGE AREA -- 108 SQ-MI (280 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 152 CU FT/S (4.30 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1740 CU FT/S (49.3 CU M/S)
 MINIMUM 12 CU FT/S (0.34 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1922-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 549 | 423 | 327 | 233 | 179 | 140 | 109 | 86.1 | 66.6 | 49.1 | 34.7 | 26.7 | 20.7 | 17.7 | 16.5 |
| CU M/S | 15.5 | 12.0 | 9.26 | 6.60 | 5.07 | 3.96 | 3.09 | 2.44 | 1.89 | 1.39 | 0.983 | 0.756 | 0.586 | 0.501 | 0.467 |

LOW-FLOW FREQUENCY -- PERIOD 1923-75

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| PERIOD OF CONSECUTIVE DAYS | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----------------------------------|-----------|-----------|-----------|-----------|
| 3 | 31 (0.88) | 21 (0.59) | 18 (0.51) | 15 (0.42) |
| 7 | 32 (0.91) | 22 (0.62) | 18 (0.51) | 15 (0.42) |
| 30 | 37 (1.0) | 25 (0.71) | 21 (0.59) | 17 (0.48) |
| 90 | 50 (1.4) | 32 (0.91) | 25 (0.71) | 21 (0.59) |

01445900 HONEY RUN NEAR HOPE, NJ

LOCATION -- LAT 40 53 33, LONG 074 58 42, WARREN COUNTY, AT BRIDGE ON STATE ROUTE 519, 700 FT (210 M) UPSTREAM FROM MOUTH, AND 1.5 MI (2.4 KM) SOUTH OF HOPE.
 DRAINAGE AREA -- 10.3 SQ-MI (26.7 SQ-KM)
 TRIBUTARY TO -- BEAVER BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01440000, 01443500 AND 01445500.
 CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966-72

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| PERIOD OF CONSECUTIVE DAYS | 2 YEARS | 10 YEARS |
|----------------------------------|------------|------------|
| 7 | 0.4 (0.01) | 0.1 (0.00) |

01446000 BEAVER BROOK NEAR BELVIDERE, NJ

LOCATION -- LAT 40 50 40, LONG 075 02 48, WARREN COUNTY, ON RIGHT BANK 2,000 FT (610 M) UPSTREAM FROM MOUTH, AND 2.0 MI (3.2 KM) EAST OF BELVIDERE.
 DRAINAGE AREA -- 36.2 SQ-MI (93.8 SQ-KM)
 TRIBUTARY TO -- PEQUEST RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 52.3 CU FT/S (1.48 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1370 CU FT/S (38.8 CU M/S)
 MINIMUM 1.2 CU FT/S (0.03 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1923-61

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 224 | 158 | 117 | 81.1 | 60.1 | 46.3 | 35.4 | 26.1 | 17.7 | 11.7 | 6.33 | 4.38 | 2.91 | 2.26 | 1.93 |
| CU M/S | 6.34 | 4.47 | 3.31 | 2.30 | 1.70 | 1.31 | 1.00 | 0.739 | 0.501 | 0.331 | 0.179 | 0.124 | 0.082 | 0.064 | 0.055 |

LOW-FLOW FREQUENCY -- PERIOD 1924-61

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| PERIOD OF CONSECUTIVE DAYS | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----------------------------------|------------|------------|------------|------------|
| 3 | 4.7 (0.13) | 2.6 (0.07) | 1.9 (0.05) | 1.5 (0.04) |
| 7 | 5.0 (0.14) | 2.7 (0.08) | 2.0 (0.06) | 1.6 (0.05) |
| 30 | 6.5 (0.18) | 3.5 (0.10) | 2.5 (0.07) | 2.0 (0.06) |
| 90 | 11 (0.31) | 5.6 (0.16) | 4.1 (0.12) | 3.2 (0.09) |

01446500 DELAWARE RIVER AT BELVIDERE, NJ

LOCATION -- LAT 40 49 36, LONG 075 05 02, WARREN COUNTY, ON LEFT BANK AT BELVIDERE, 800 FT (240 M) DOWNSTREAM FROM PEQUEST RIVER, AND AT MILE 197.7 (318.1 KM).
 DRAINAGE AREA -- 4535 SQ-MI (11746 SQ-KM)
 TRIBUTARY TO -- DELAWARE BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 7875 CU FT/S (223 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 184000 CU FT/S (210 CU M/S)
 MINIMUM 636 CU FT/S (18.0 CU M/S)
 REMARKS -- REGULATION NOVEMBER 1925 TO DECEMBER 1953 REDUCED FLOOD PEAKS AND AUGMENTED LOW FLOW. SINCE DECEMBER 1953 REGULATION AND DIVERSION HAVE REDUCED FLOOD PEAKS AND TOTAL RUNOFF AND HAVE BEEN SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1923-53

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 35500 | 24200 | 17500 | 12000 | 9110 | 7020 | 5520 | 4360 | 3340 | 2430 | 1720 | 1360 | 1110 | 1000 | 914 |
| CU M/S | 1010 | 685 | 496 | 340 | 258 | 199 | 156 | 123 | 94.6 | 68.8 | 48.7 | 38.5 | 31.4 | 28.3 | 25.9 |

DURATION TABLE OF DAILY FLOW -- PERIOD 1955-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 29900 | 21500 | 15600 | 10500 | 7790 | 5920 | 4610 | 3780 | 3100 | 2550 | 1890 | 1530 | 1250 | 1120 | 1030 |
| CU M/S | 847 | 609 | 442 | 297 | 221 | 168 | 131 | 107 | 87.8 | 72.2 | 53.5 | 43.3 | 35.4 | 31.7 | 29.2 |

LOW-FLOW FREQUENCY -- PERIOD 1924-53

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 1200 (34) | 940 (27) | 850 (24) | 790 (22) |
| 7 | 1400 (40) | 1100 (31) | 950 (27) | 880 (25) |
| 30 | 1700 (48) | 1200 (34) | 1100 (31) | 1000 (28) |
| 90 | 2400 (68) | 1700 (48) | 1500 (42) | 1300 (37) |

LOW-FLOW FREQUENCY -- PERIOD 1955-75

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 1800 (51) | 1000 (28) |

01453000 LEHIGH RIVER AT BETHLEHEM, PA

LOCATION -- LAT 40 36 55, LONG 075 22 45, LEHIGH COUNTY, ON LEFT BANK 120 FT (40 M) UPSTREAM FROM NEW STREET BRIDGE AT BETHLEHEM, AND 1,800 FT (550 M) UPSTREAM FROM MONOCACY CREEK.
 DRAINAGE AREA -- 1279 SQ-MI (3313 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 2304 CU FT/S (65.2 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 70400 CU FT/S (994 CU M/S)
 MINIMUM 160 CU FT/S (4.53 CU M/S)
 REMARKS -- REGULATION AND DIVERSION SINCE 1919 SIGNIFICANT AT LOW AND MEDIUM FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1903-04, 10-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 8790 | 6330 | 4700 | 3300 | 2530 | 2020 | 1640 | 1330 | 1060 | 814 | 595 | 484 | 403 | 355 | 330 |
| CU M/S | 249 | 179 | 133 | 93.5 | 71.6 | 57.2 | 46.4 | 37.7 | 30.0 | 23.1 | 16.9 | 13.7 | 11.4 | 10.1 | 9.35 |

LOW-FLOW FREQUENCY -- PERIOD 1904, 11-75

PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|----------|-----------|
| 7 | 520 (15) | 340 (9.6) |

01455100 LOPATCONG CREEK AT PHILLIPSBURG, NJ

LOCATION -- LAT 40 40 38, LONG 075 10 13, WARREN COUNTY, AT BRIDGE ON ALTERNATE U.S. ROUTE 22 IN PHILLIPSBURG, 100 FT (30 M) ABOVE TRACKS OF CENTRAL RAILROAD OF NEW JERSEY, AND 3,000 FT (910 M) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 14.2 SQ-MI (36.8 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND 01445500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1958-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 7.9 (0.22) | 6.3 (0.18) |

01455200 POHATCONG CREEK AT NEW VILLAGE, NJ

LOCATION -- LAT 40 42 57, LONG 075 04 20, WARREN COUNTY, ON LEFT BANK 20 FT (6 M) UPSTREAM FROM EDISON ROAD BRIDGE, 0.4 (0.6 KM) SOUTHEAST OF NEW VILLAGE, AND 4.3 MI (6.9 KM) UPSTREAM FROM MERRILL CREEK.
 DRAINAGE AREA -- 33.4 SQ-MI (86.5 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 26.6 CU FT/S (0.75 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 527 CU FT/S (14.9 CU M/S)
 MINIMUM 0.4 CU FT/S (0.01 CU M/S)
 REMARKS -- OCCASIONAL REGULATION; PROBABLY NOT SIGNIFICANT.

DURATION TABLE OF DAILY FLOW -- PERIOD 1960-69
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 118 | 81.7 | 57.4 | 38.0 | 28.7 | 23.1 | 18.5 | 14.3 | 10.2 | 6.27 | 3.40 | 1.87 | 1.22 | 0.999 | 0.733 |
| CU M/S | 3.34 | 2.31 | 1.63 | 1.08 | 0.813 | 0.654 | 0.524 | 0.405 | 0.289 | 0.178 | 0.096 | 0.053 | 0.035 | 0.028 | 0.021 |

LOW-FLOW FREQUENCY -- PERIOD 1961-69
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 3.0 (0.08) | 0.7 (0.02) |

01455300 POHATCONG CREEK AT CARPENTERSVILLE, NJ

LOCATION -- LAT 40 37 30, LONG 075 11 10, WARREN COUNTY, AT BRIDGE ON CARPENTERSVILLE-RIEGELSVILLE ROAD, 2,000 FT (610 M) ABOVE MOUTH, AND 0.7 MI (1.1 KM) SOUTH OF CARPENTERSVILLE.
 DRAINAGE AREA -- 57.1 SQ-MI (147.9 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND 01445500. CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1932, 58-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|-----------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 10 (0.28) | 6.1 (0.17) |

01455350 WELDON BROOK NEAR WOODPORT, NJ

LOCATION -- LAT 40 58 54, LONG 074 35 18, MORRIS COUNTY, AT CULVERTS ON MEDIUM-DUTY ROAD, 400 FT (120 M) UPSTREAM FROM MOUTH AT LAKE SHAWNEE, 1.2 MI (1.9 KM) EAST OF WOODPORT, AND 6.9 MI (11.1 KM) NORTH OF DOVER.
 DRAINAGE AREA -- 3.27 SQ-MI (8.47 SQ-KM)
 TRIBUTARY TO -- MUSCONETCONG RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01381500 AND 01386000. CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1965-69, 71-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01455355 BEAVER BROOK NEAR WELDON, NJ

LOCATION -- LAT 40 58 50, LONG 074 34 08, MORRIS COUNTY, ON RIGHT BANK, 1.3 MI (2.1 KM) UPSTREAM FROM LAKE SHAWNEE, 1.3 MI (2.1 KM) SOUTHEAST OF WELDON, AND 2.1 MI (3.4 KM) NORTHEAST OF TIERNEYS CORNER.
 DRAINAGE AREA -- 1.74 SQ-MI (4.51 SQ-KM)
 TRIBUTARY TO -- WELDON BROOK
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01440000, 01443500 AND 01445500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1968-71
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01455360 BEAVER BROOK NEAR WOODPORT, NJ

LOCATION -- LAT 40 58 34, LONG 074 35 16, MORRIS COUNTY, AT CULVERTS ON LIGHT-DUTY ROAD, 220 FT (67 M) UPSTREAM FROM MOUTH, 1.2 MI (1.9 KM) EAST OF WOODPORT, AND 6.5 MI (10.5 KM) NORTH OF DOVER.
 DRAINAGE AREA -- 2.79 SQ-MI (7.23 SQ-KM)
 TRIBUTARY TO -- WELDON BROOK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01381500 AND 01386000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01455370 WELDON BROOK AT HURDTOWN, NJ

LOCATION -- LAT 40 58 10, LONG 074 35 56, MORRIS COUNTY, AT BRIDGE ON UNION TURNPIKE AT HURDTOWN, 500 FT (150 M) DOWNSTREAM FROM LAKE SHAWNEE DAM.
 DRAINAGE AREA -- 8.10 SQ-MI (20.98 SQ-KM)
 TRIBUTARY TO -- MUSCONETCONG RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01380500, 01381500 AND 01396500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1973-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.3 (0.01) | 0.1 (0.00) |

01455500 MUSCONETCONG RIVER AT OUTLET OF LAKE HOPATCONG, NJ

LOCATION -- LAT 40 55 00, LONG 074 39 55, MORRIS COUNTY, ON LEFT BANK JUST UPSTREAM OF HIGHWAY BRIDGE, AND 300 FT (90 M) DOWNSTREAM FROM LAKE HOPATCONG DAM IN LANDING.
 DRAINAGE AREA -- 25.6 SQ-MI (66.3 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 43.6 CU FT/S (1.23 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 355 CU FT/S (10.1 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1961-74
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 193 | 149 | 104 | 65.4 | 42.2 | 29.4 | 18.8 | 12.8 | 10.5 | 8.76 | 6.62 | 4.29 | 0.399 | 0.083 | 0.042 |
| CU M/S | 5.47 | 4.22 | 2.95 | 1.85 | 1.20 | 0.833 | 0.532 | 0.362 | 0.297 | 0.248 | 0.187 | 0.121 | 0.011 | 0.002 | 0.001 |

LOW-FLOW FREQUENCY -- PERIOD 1962-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.4 (0.07) | 0.0 (0.00) |

01455550 MUSCONETCONG RIVER AT STANHOPE, NJ

LOCATION -- LAT 40 54 06, LONG 074 42 19, MORRIS COUNTY, AT BRIDGE ON ROUTE 206 AT STANHOPE, AT OUTLET OF LAKE MUSCONETCONG.
 DRAINAGE AREA -- 29.7 SQ-MI (76.9 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- TWO LOWEST BASE FLOW MEASUREMENTS MADE DURING PERIOD OF RECORD: 7/19/73, 15 CU FT/S (0.42 CU M/S); 5/12/76, 16.9 CU FT/S (0.48 CU M/S). NO USABLE CORRELATION FOUND; FLOW REGULATED BY LAKES MUSCONETCONG AND HOPATCONG.

01456000 MUSCONETCONG RIVER NEAR HACKETTSTOWN, NJ

LOCATION -- LAT 40 53 10, LONG 074 48 00, WARREN COUNTY, ON RIGHT BANK 75 FT (25 M) UPSTREAM FROM SAXTON FALLS DAM, 0.5 MI (0.8 KM) UPSTREAM FROM ERIE-LACKAWANNA RAILWAY BRIDGE, AND 3.0 MI (4.8 KM) NORTHEAST OF HACKETTSTOWN.
 DRAINAGE AREA -- 70.0 SQ-MI (181.3 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 120 CU FT/S (3.40 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1760 CU FT/S (49.8 CU M/S)
 MINIMUM 5.3 CU FT/S (0.15 CU M/S)
 REMARKS -- REGULATION REDUCES FLOOD PEAKS AND IS ALSO VERY SIGNIFICANT AT LOW AND MEDIUM FLOWS. DIVERSION TO MORRIS CANAL DURING NAVIGATION SEASONS PRIOR TO MARCH 1924 NOT INCLUDED IN RECORDS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1922-73

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 416 | 324 | 257 | 189 | 142 | 110 | 85.4 | 67.2 | 52.8 | 40.3 | 27.5 | 20.8 | 15.2 | 12.7 | 11.0 |
| CU M/S | 11.8 | 9.18 | 7.28 | 5.35 | 4.02 | 3.12 | 2.42 | 1.90 | 1.50 | 1.14 | 0.779 | 0.589 | 0.430 | 0.360 | 0.312 |

LOW-FLOW FREQUENCY -- PERIOD 1923-73

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 21 (0.59) | 12 (0.34) |

01456100 HATCHERY BROOK AT HACKETTSTOWN, NJ

LOCATION -- LAT 40 51 21, LONG 074 50 07, WARREN COUNTY, AT BRIDGE ON U.S. ROUTE 46 IN HACKETTSTOWN, AND 1.2 MI (1.9 KM) ABOVE THE NEW JERSEY STATE FISH HATCHERY.
 DRAINAGE AREA -- 1.81 SQ-MI (4.69 SQ-KM)
 TRIBUTARY TO -- MUSCONETCONG RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01443500 AND 01445500. CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1966-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.4 (0.01) | 0.2 (0.01) |

01457000 MUSCONETCONG RIVER NEAR BLOOMSBURY, NJ

LOCATION -- LAT 40 40 20, LONG 075 03 40, WARREN COUNTY, ON RIGHT BANK JUST DOWNSTREAM FROM HIGHWAY BRIDGE, 1.5 MI (2.4 KM) UPSTREAM FROM BLOOMSBURY, AND 9.5 MI (15.3 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 143 SQ-MI (370 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 230 CU FT/S (6.51 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 5850 CU FT/S (166 CU M/S)
 MINIMUM 27 CU FT/S (0.76 CU M/S)
 REMARKS -- REGULATION AT TIMES MAY BE SIGNIFICANT AT ALL FLOWS. DIVERSION TO CANAL DURING NAVIGATION SEASONS PRIOR TO MARCH 1924 NOT INCLUDED IN RECORDS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1904-06, 22-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 734 | 564 | 448 | 336 | 267 | 218 | 180 | 146 | 119 | 95.0 | 74.4 | 62.2 | 49.1 | 41.0 | 36.8 |
| CU M/S | 20.8 | 16.0 | 12.7 | 9.52 | 7.56 | 6.17 | 5.10 | 4.13 | 3.37 | 2.69 | 2.11 | 1.76 | 1.39 | 1.16 | 1.04 |

LOW-FLOW FREQUENCY -- PERIOD 1905-07, 23-75

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|----------|----------|----------|
| 3 | 65 (1.8) | 48 (1.4) | 41 (1.2) | 36 (1.0) |
| 7 | 69 (2.0) | 51 (1.4) | 44 (1.2) | 38 (1.1) |
| 30 | 80 (2.3) | 59 (1.7) | 50 (1.4) | 43 (1.2) |
| 90 | 100 (2.8) | 71 (2.0) | 59 (1.7) | 51 (1.4) |

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ

LOCATION -- LAT 40 35 36, LONG 075 11 17, WARREN COUNTY, ON LEFT BANK 20 FT (6 M) UPSTREAM FROM SUSPENSION BRIDGE AT RIEGELSVILLE, 600 FT (180 M) UPSTREAM FROM MUSCONETCONG RIVER, AND AT MILE 174.8 (281.3).
 DRAINAGE AREA -- 6328 SQ-MI (16390 SQ-KM)
 TRIBUTARY TO -- DELAWARE BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 10830 CU FT/S (307 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 221000 CU FT/S (258 CU M/S)
 MINIMUM 906 CU FT/S (25.7 CU M/S)
 REMARKS -- REGULATION NOVEMBER 1925 TO DECEMBER 1953 REDUCED FLOOD PEAKS AND AUGMENTED LOW FLOW. SINCE DECEMBER 1953 REGULATION AND DIVERSION HAVE REDUCED FLOOD PEAKS AND TOTAL RUNOFF AND HAVE BEEN SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1907-53

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 46900 | 32800 | 24100 | 16600 | 12400 | 9560 | 7560 | 6000 | 4640 | 3470 | 2470 | 1910 | 1570 | 1400 | 1280 |
| CU M/S | 1330 | 929 | 683 | 470 | 351 | 271 | 214 | 170 | 131 | 98.3 | 70.0 | 54.1 | 44.5 | 39.6 | 36.2 |

DURATION TABLE OF DAILY FLOW -- PERIOD 1955-71

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 38000 | 27700 | 20200 | 13800 | 10300 | 7930 | 6450 | 5350 | 4520 | 3790 | 2760 | 2260 | 1930 | 1800 | 1610 |
| CU M/S | 1080 | 784 | 572 | 391 | 292 | 225 | 183 | 152 | 128 | 107 | 78.2 | 64.0 | 54.7 | 51.0 | 45.6 |

LOW-FLOW FREQUENCY -- PERIOD 1908-53

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 1900 (54) | 1400 (40) | 1200 (34) | 1100 (31) |
| 7 | 2000 (57) | 1500 (42) | 1300 (37) | 1200 (34) |
| 30 | 2400 (68) | 1700 (48) | 1500 (42) | 1300 (37) |
| 90 | 3400 (96) | 2300 (65) | 2000 (57) | 1700 (48) |

LOW-FLOW FREQUENCY -- PERIOD 1955-71

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 2600 (74) | 1600 (45) |

01458100 HAKIHOKAKE CREEK AT MILFORD, NJ

LOCATION -- LAT 40 34 06, LONG 075 05 44, HUNTERDON COUNTY, AT HIGHWAY BRIDGE IN MILFORD, 4,000 FT (1,200 M)
UPSTREAM FROM MOUTH.
DRAINAGE AREA -- 17.2 SQ-MI (44.5 SQ-KM)
TRIBUTARY TO -- DELAWARE RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND 01398000.
CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1944, 58-64
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 5.6 (0.16) | 3.4 (0.10) |

01458400 HAKIHOKAKE CREEK NEAR FRENCHTOWN, NJ

LOCATION -- LAT 40 32 53, LONG 075 04 09, HUNTERDON COUNTY, AT BRIDGE ON FRENCHTOWN-MILFORD ROAD, 1,600 FT (490 M)
ABOVE MOUTH, AND 1.5 MI (2.4 KM) NORTH OF FRENCHTOWN.
DRAINAGE AREA -- 9.75 SQ-MI (25.25 SQ-KM)
TRIBUTARY TO -- DELAWARE RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND
01398000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1944, 58-65
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.0 (0.00) |

01458600 NISHISAKAWICK CREEK AT FRENCHTOWN, NJ

LOCATION -- LAT 40 31 27, LONG 075 03 42, HUNTERDON COUNTY, AT BRIDGE ON STATE ROUTE 29 AT FRENCHTOWN, AND 700 FT
(210 M) UPSTREAM FROM MOUTH.
DRAINAGE AREA -- 12.3 SQ-MI (31.9 SQ-KM)
TRIBUTARY TO -- DELAWARE RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND 01398000.
CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1958-64
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.3 (0.01) | 0.1 (0.00) |

01458700 LITTLE NISHISAKAWICK CREEK AT FRENCHTOWN, NJ

LOCATION -- LAT 40 31 23, LONG 075 03 43, HUNTERDON COUNTY, AT BRIDGE ON STATE ROUTE 29 AT FRENCHTOWN, AND 800 FT
(240 M) UPSTREAM FROM MOUTH.
DRAINAGE AREA -- 3.50 SQ-MI (9.07 SQ-KM)
TRIBUTARY TO -- DELAWARE RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01396500, 01397000 AND 01398000.
CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1958-65
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01460900 LOCKATONG CREEK NEAR RAVEN ROCK, NJ

LOCATION -- LAT 40 24 28, LONG 075 00 52, HUNTERDON COUNTY, AT BRIDGE ON STATE ROUTE 29, 300 FT (90 M) UPSTREAM FROM MOUTH, AND 1.1 MI (1.8 KM) EAST OF RAVEN ROCK.

DRAINAGE AREA -- 23.2 SQ-MI (60.1 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01397000, 01398000 AND 01401000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1944, 58-64

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01461300 WICKECHEOKE CREEK AT STOCKTON, NJ

LOCATION -- LAT 40 24 41, LONG 074 59 13, HUNTERDON COUNTY, AT BRIDGE ON STATE ROUTE 29 AT STOCKTON, AND 900 FT (270 M) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 26.6 SQ-MI (68.9 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01397000, 01398000 AND 01401000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1944, 58-64

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.7 (0.02) | 0.2 (0.01) |

01461900 ALEXAUKEN CREEK NEAR LAMBERTVILLE, NJ

LOCATION -- LAT 40 22 51, LONG 074 56 54, HUNTERDON COUNTY, AT BRIDGE ON STATE ROUTE 29, 0.4 MI (0.6 KM) UPSTREAM FROM MOUTH, AND 1.1 MI (1.8 KM) NORTH OF LAMBERTVILLE.

DRAINAGE AREA -- 14.9 SQ-MI (38.6 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 0397000, 01398000 AND 01401000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1944, 58-64

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.5 (0.01) | 0.1 (0.00) |

01462000 DELAWARE RIVER AT LAMBERTVILLE, NJ

LOCATION -- LAT 40 21 50, LONG 074 56 55, HUNTERDON COUNTY, ON UPSTREAM SIDE OF BRIDGE IN FIFTH SPAN OF BRIDGE FROM NEW JERSEY END, AT LAMBERTVILLE, AND 0.9 MI (1.4 KM) DOWNSTREAM FROM ALEXAUKEN CREEK.

DRAINAGE AREA -- 6680 SQ-MI (17301 SQ-KM)

TRIBUTARY TO -- DELAWARE BAY

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

DAILY DISCHARGE EXTREMES -- MAXIMUM 246000 CU FT/S (966 CU M/S)

MINIMUM 700 CU FT/S (19.8 CU M/S)

REMARKS -- REGULATION PROBABLY NOT SIGNIFICANT. DIVERSIONS SIGNIFICANT AT LOW FLOW ONLY.

DURATION TABLE OF DAILY FLOW -- PERIOD 1898-1906

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 58200 | 42800 | 31900 | 21000 | 15000 | 11000 | 8700 | 7350 | 6050 | 4740 | 3080 | 2210 | 1510 | 1230 | 990 |
| CU M/S | 1650 | 1210 | 903 | 595 | 425 | 312 | 246 | 208 | 171 | 134 | 87.2 | 62.6 | 42.8 | 34.8 | 28.0 |

LOW-FLOW FREQUENCY -- PERIOD 1899-1906

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|----------|
| 7 | 1600 (45) | 940 (27) |

01462200 MOORE CREEK NEAR TITUSVILLE, NJ

LOCATION -- LAT 40 19 26, LONG 074 55 02, MERCER COUNTY, AT BRIDGE ON STATE ROUTE 29, 400 FT (120 M) UPSTREAM FROM MOUTH, AND 2.1 MI (3.4 KM) NORTHWEST OF TITUSVILLE.
 DRAINAGE AREA -- 10.2 SQ-MI (26.4 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01397000, 01398000 AND 01401000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1958-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01462800 JACOBS CREEK AT SOMERSET, NJ

LOCATION -- LAT 40 16 42, LONG 074 51 14, MERCER COUNTY, AT BRIDGE ON STATE ROUTE 29 AT SOMERSET, AND 400 FT (120 M) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 13.3 SQ-MI (34.4 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01397000, 01398000, 01401000 AND 01464000. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1957-64
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.1 (0.00) |

01463500 DELAWARE RIVER AT TRENTON, NJ

LOCATION -- LAT 40 13 18, LONG 074 46 42, MERCER COUNTY, ON LEFT BANK 450 FT (140 M) UPSTREAM FROM CALHOUN STREET BRIDGE AT TRENTON, 0.5 MI (0.8 KM) UPSTREAM FROM ASSUNPINK CREEK, AND AT MILE 134.5 (216.5 KM).
 DRAINAGE AREA -- 6,780 SQ-MI (17,560 SQ-KM)
 TRIBUTARY TO -- DELAWARE BAY
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 11630 CU FT/S (329 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 279000 CU FT/S (900 CU M/S)
 MINIMUM 1240 CU FT/S (35.1 CU M/S)
 REMARKS -- REGULATION REDUCES FLOOD PEAKS AND AUGMENTS LOW FLOW. DIVERSION SIGNIFICANT AT LOW FLOW PRIOR TO NOVEMBER 1935 AND SINCE DECEMBER 1953.

DURATION TABLE OF DAILY FLOW -- PERIOD 1913-53
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 47300 | 34100 | 25300 | 17700 | 13500 | 10500 | 8200 | 6520 | 5050 | 3810 | 2800 | 2230 | 1820 | 1650 | 1510 |
| CU M/S | 1340 | 966 | 716 | 501 | 382 | 297 | 232 | 185 | 143 | 108 | 79.3 | 63.2 | 51.5 | 46.7 | 42.8 |

DURATION TABLE OF DAILY FLOW -- PERIOD 1955-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 41600 | 30900 | 23300 | 16000 | 12100 | 9460 | 7510 | 6060 | 5000 | 4060 | 2910 | 2280 | 1910 | 1720 | 1550 |
| CU M/S | 1180 | 875 | 660 | 453 | 343 | 268 | 213 | 172 | 142 | 115 | 82.4 | 64.6 | 54.1 | 48.7 | 43.9 |

LOW-FLOW FREQUENCY -- PERIOD 1914-53
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|-----------|-----------|-----------|
| 3 | 2100 (59) | 1600 (45) | 1400 (40) | 1300 (37) |
| 7 | 2300 (65) | 1700 (48) | 1500 (42) | 1400 (40) |
| 30 | 2700 (76) | 2000 (57) | 1700 (48) | 1600 (45) |
| 90 | 3800 (108) | 2700 (76) | 2200 (62) | 2000 (57) |

LOW-FLOW FREQUENCY -- PERIOD 1955-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 2700 (76) | 1600 (45) |

01463620 ASSUNPINK CREEK NEAR CLARKSVILLE, NJ

LOCATION -- LAT 40 16 11, LONG 074 40 20, MERCER COUNTY, ON LEFT BANK 200 FT (60 M) UPSTREAM FROM BRIDGE ON QUAKER BRIDGE ROAD, 1.9 MI (3.1 KM) SOUTH OF CLARKSVILLE, 2.0 MI (3.2 KM) UPSTREAM FROM SHIPETAUKIN CREEK, AND 7.6 MI (12.2 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 34.3 SQ-MI (88.8 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-67

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 7.1 (0.20) | 3.4 (0.10) |

01463650 SHIPETAUKIN CREEK AT LAWRENCEVILLE, NJ

LOCATION -- LAT 40 17 48, LONG 074 42 23, MERCER COUNTY, 300 FT (90 M) UPSTREAM FROM BRIDGE ON PRINCETON PIKE (STATE ROUTE 583), JUST ABOVE TRIBUTARY FROM LAWRENCEVILLE SCHOOL, 1.3 MI (2.1 KM) EAST OF LAWRENCEVILLE, AND 2.2 MI (3.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 4.48 SQ-MI (11.60 SQ-KM)

TRIBUTARY TO -- ASSUNPINK CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-67

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.0 (0.00) |

01463670 SHIPETAUKIN CREEK AT BAKERSVILLE, NJ

LOCATION -- LAT 40 16 26, LONG 074 42 10, MERCER COUNTY, AT BRIDGE ON STATE ROUTE 546 (EXTENDED), 0.3 MI (0.5 KM) EAST OF BAKERSVILLE, 0.4 MI (0.6 KM) UPSTREAM FROM MOUTH, AND 2.2 MI (3.5 KM) SOUTHEAST OF LAWRENCEVILLE.

DRAINAGE AREA -- 8.96 SQ-MI (23.21 SQ-KM)

TRIBUTARY TO -- ASSUNPINK CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-67

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.6 (0.05) | 0.7 (0.02) |

01463690 LITTLE SHABAKUNK CREEK AT BAKERSVILLE, NJ

LOCATION -- LAT 40 16 06, LONG 074 42 54, MERCER COUNTY, AT BRIDGE ON U.S. ROUTE 1, 0.5 MI (0.8 KM) UPSTREAM FROM MOUTH, 0.6 MI (1.0 KM) SOUTHWEST OF BAKERSVILLE, AND 2.2 MI (3.5 KM) SOUTHEAST OF LAWRENCEVILLE.

DRAINAGE AREA -- 3.98 SQ-MI (10.31 SQ-KM)

TRIBUTARY TO -- ASSUNPINK CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.1 (0.00) |

01463750 SHABAKUNK CREEK AT EWINGVILLE, NJ

LOCATION -- LAT 40 15 47, LONG 074 45 37, MERCER COUNTY, AT BRIDGE ON EWINGVILLE ROAD, 1.2 MI (1.9 KM) EAST OF EWINGVILLE, 2.8 MI (4.5 KM) SOUTHWEST OF LAWRENCEVILLE, AND 3.0 MI (4.8 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 5.00 SQ-MI (12.95 SQ-KM)
 TRIBUTARY TO -- ASSUNPINK CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.3 (0.01) | 0.1 (0.00) |

01463790 WEST BRANCH SHABAKUNK CREEK NEAR EWINGVILLE, NJ

LOCATION -- LAT 40 14 55, LONG 074 45 24, MERCER COUNTY, AT BRIDGE ON SPRUCE STREET, 0.5 MI (0.8 KM) UPSTREAM FROM MOUTH, 1.7 MI (2.7 KM) SOUTHEAST OF EWINGVILLE, 2.0 MI (3.2 KM) NORTH OF TRENTON, AND 2.3 MI (3.7 KM) UPSTREAM FROM ASSUNPINK CREEK.
 DRAINAGE AREA -- 4.56 SQ-MI (11.81 SQ-KM)
 TRIBUTARY TO -- SHABAKUNK CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.7 (0.02) | 0.3 (0.01) |

01463830 MIRY RUN AT ROBBINSVILLE, NJ

LOCATION -- LAT 40 13 41, LONG 074 37 13, MERCER COUNTY, AT BRIDGE ON ROBBINSVILLE-EDINBURG ROAD (STATE ROUTE 526), 0.9 MI (1.4 KM) NORTH OF ROBBINSVILLE, AND 5.6 MI (9.0 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 4.02 SQ-MI (10.41 SQ-KM)
 TRIBUTARY TO -- ASSUNPINK CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 0.3 (0.01) | 0.1 (0.00) |

01463860 MIRY RUN AT MERCERVILLE, NJ

LOCATION -- LAT 40 14 57, LONG 074 42 41, MERCER COUNTY, AT BRIDGE ON KLOCKNER ROAD, 0.4 MI (0.6 KM) UPSTREAM FROM MOUTH, AND 1.5 MI (2.4 KM) NORTHWEST OF MERCERVILLE.
 DRAINAGE AREA -- 12.4 SQ-MI (32.1 SQ-KM)
 TRIBUTARY TO -- ASSUNPINK CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-67
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 1.0 (0.03) | 0.4 (0.01) |

01463980 POND RUN AT TRENTON, NJ

LOCATION -- LAT 40 13 43, LONG 074 43 40, MERCER COUNTY, AT BRIDGE ON GREENWOOD AVENUE, 1.1 MI (1.8 KM) UPSTREAM FROM MOUTH, AND 1.6 MI (2.6 KM) EAST OF TRENTON FEDERAL BUILDING.
 DRAINAGE AREA -- 8.94 SQ-MI (23.15 SQ-KM)
 TRIBUTARY TO -- ASSUMPINK CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1963-69, 71-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.0 (0.00) | 0.0 (0.00) |

01464000 ASSUMPINK CREEK AT TRENTON, NJ

LOCATION -- LAT 40 13 27, LONG 074 44 58, MERCER COUNTY, ON LEFT BANK AT CHAMBERS STREET BRIDGE IN TRENTON, 1.5 MI (2.4 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 89.4 SQ-MI (231.6 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 126 CU FT/S (3.57 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 4050 CU FT/S (115 CU M/S)
 MINIMUM 4.0 CU FT/S (0.11 CU M/S)
 REMARKS -- SINCE FEBRUARY 1954, INFLOW ABOVE STATION SIGNIFICANT AT LOW AND MEDIUM FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1924-54
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 530 | 359 | 250 | 164 | 124 | 97.2 | 78.3 | 62.6 | 49.7 | 39.0 | 27.0 | 20.7 | 15.2 | 11.5 | 9.00 |
| CU M/S | 15.0 | 10.2 | 7.08 | 4.64 | 3.51 | 2.75 | 2.22 | 1.77 | 1.41 | 1.10 | 0.765 | 0.586 | 0.430 | 0.326 | 0.255 |

DURATION TABLE OF DAILY FLOW -- PERIOD 1955-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 600 | 393 | 263 | 176 | 136 | 109 | 89.9 | 74.0 | 60.4 | 47.7 | 34.4 | 26.7 | 19.9 | 16.7 | 14.4 |
| CU M/S | 17.0 | 11.1 | 7.45 | 4.98 | 3.85 | 3.09 | 2.55 | 2.10 | 1.71 | 1.35 | 0.974 | 0.756 | 0.564 | 0.473 | 0.408 |

LOW-FLOW FREQUENCY -- PERIOD 1925-54
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|------------|------------|
| 3 | 17 (0.48) | 11 (0.31) | 8.2 (0.23) | 6.6 (0.19) |
| 7 | 20 (0.57) | 15 (0.42) | 12 (0.34) | 11 (0.31) |
| 30 | 27 (0.76) | 20 (0.57) | 17 (0.48) | 15 (0.42) |
| 90 | 41 (1.2) | 30 (0.85) | 25 (0.71) | 22 (0.62) |

LOW-FLOW FREQUENCY -- PERIOD 1955-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 27 (0.76) | 15 (0.42) |

DELAWARE RIVER BASIN (LOWER)

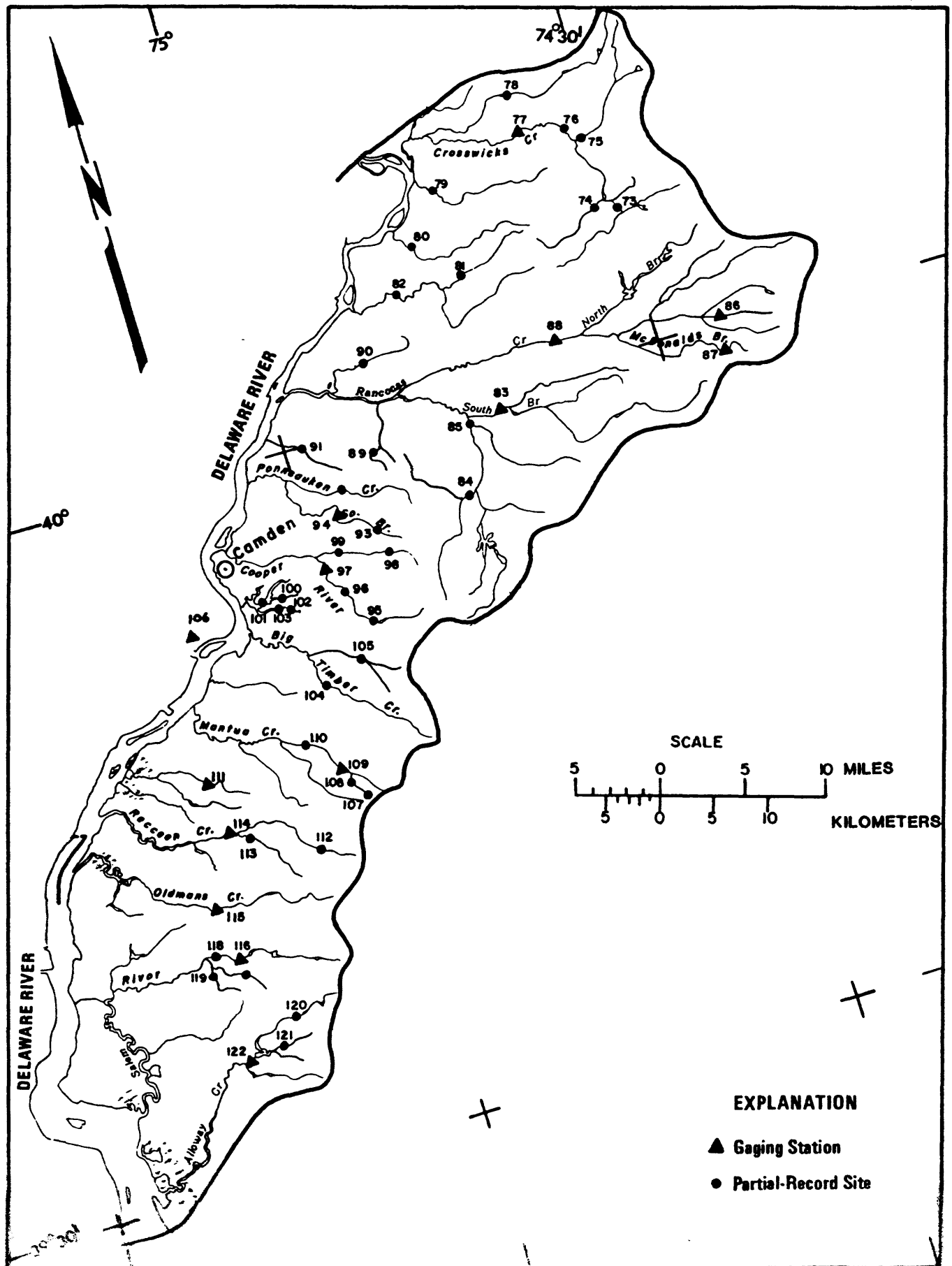


Figure 15.— Map Segment 7 showing site locations in the lower part of the Delaware River basin

| MAP NO. | STATION NUMBER | STATION NAME | QUADRANGLE MAP 7.5 MINUTE SERIES | PAGE |
|-------------------------------------|-------------------|--|-------------------------------------|------|
| DELAWARE RIVER BASIN (LOWER) | | | | |
| 73 | 01464300 | CROSSWICKS CREEK NEAR COOKSTOWN----- | NEW EGYPT----- | 146 |
| 74 | 01464380 | NORTH RUN AT COOKSTOWN----- | NEW EGYPT----- | 146 |
| 75 | 01464460 | LAHAWAY CREEK NEAR HORNERSTOWN----- | NEW EGYPT----- | 146 |
| 76 | 01464480 | MIRY RUN AT HOLMES MILLS----- | ALLENTOWN----- | 146 |
| 77 | 01464500 | CROSSWICKS CREEK AT EXTONVILLE----- | ALLENTOWN----- | 147 |
| 78 | 01464515 | DOCTORS CREEK AT ALLENTOWN----- | ALLENTOWN----- | 147 |
| 79 | 01464530 | BLACKS CREEK AT MANSFIELD SQUARE----- | COLUMBUS----- | 147 |
| 80 | 01464540 | CRAFTS CREEK AT HEDDING----- | BRISTOL----- | 147 |
| 81 | 01464580 | ASSISCUNK CREEK AT COLUMBUS----- | MOUNT HOLLY----- | 148 |
| 82 | 01464590 | ASSISCUNK CREEK NEAR BURLINGTON----- | BRISTOL----- | 148 |
| 83 | 01465850 | SOUTH BRANCH RANCOCAS CREEK AT VINCENTOWN----- | MOUNT HOLLY----- | 148 |
| 84 | 01465880 | SOUTHWEST BRANCH RANCOCAS CREEK AT MEDFORD----- | MOUNT HOLLY----- | 148 |
| 85 | 01465900 | SOUTHWEST BRANCH RANCOCAS CREEK AT EAYRESTOWN----- | MOUNT HOLLY----- | 149 |
| | | NORTH BRANCH RANCOCAS CREEK: | | |
| | | NORTH BRANCH MOUNT MISERY BROOK: | | |
| 86 | 01466000 | MIDDLE BRANCH MOUNT MISERY BROOK IN LEBANON STATE FOREST---- | BROWNS MILLS----- | 149 |
| | | GREENWOOD BRANCH: | | |
| | | MCDONALDS BRANCH IN LEBANON STATE FOREST----- | BROWNS MILLS----- | 149 |
| 87 | 01466500 | NORTH BRANCH RANCOCAS CREEK AT PEMBERTON----- | PEMBERTON----- | 150 |
| 88 | 01467000 | PARKERS CREEK NEAR MOUNT LAUREL----- | MOORESTOWN----- | 150 |
| 89 | 01467010 | MILL CREEK AT WILLINGBORO----- | BEVERLY----- | 150 |
| 90 | 01467020 | POMPESTON CREEK AT CINNAMINSON----- | BEVERLY----- | 150 |
| 91 | 01467057 | NORTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE----- | MOORESTOWN----- | 151 |
| 92 | 01467070 | SOUTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE----- | MOORESTOWN----- | 151 |
| 93 | 01467080 | SOUTH BRANCH PENNSAUKEN CREEK AT CHERRY HILL----- | CAMDEN----- | 151 |
| 94 | 01467081 | COOPER RIVER AT KIRKWOOD----- | RUNNEMEDE----- | 151 |
| 95 | 01467130 | COOPER RIVER AT LAWNSIDE----- | RUNNEMEDE----- | 152 |
| 96 | 01467140 | COOPER RIVER AT HADDONFIELD----- | CAMDEN----- | 152 |
| 97 | 01467150 | NORTH BRANCH COOPER RIVER NEAR MARLTON----- | MOORESTOWN----- | 152 |
| 98 | 01467160 | NORTH BRANCH COOPER RIVER AT ELLISBURG----- | CAMDEN----- | 152 |
| 99 | 01467180 | NEWTON CREEK AT COLLINGSWOOD----- | CAMDEN----- | 153 |
| 100 | 01467305 | NEWTON CREEK AT WEST COLLINGSWOOD----- | CAMDEN----- | 153 |
| 101 | 01467312 | SOUTH BRANCH NEWTON CREEK AT GLOVER AVENUE, AT HADDON HEIGHTS----- | CAMDEN----- | 153 |
| 102 | 01467315 | SOUTH BRANCH NEWTON CREEK AT 13TH AVENUE, AT HADDON HEIGHTS----- | CAMDEN----- | 153 |
| 103 | 01467317 | SOUTH BRANCH BIG TIMBER CREEK AT BLACKWOOD----- | RUNNEMEDE----- | 154 |
| 104 | 01467330 | NORTH BRANCH BIG TIMBER CREEK AT LAUREL SPRINGS----- | RUNNEMEDE----- | 154 |
| 105 | 01467350 | SCHUYLKILL RIVER AT PHILADELPHIA, PA----- | PHILADELPHIA----- | 154 |
| 106 | 01474500 | MANTUA CREEK AT GLASSBORO----- | PITMAN EAST----- | 155 |
| 107 | 01474950 | MANTUA CREEK AT GREENTREE ROAD AT GLASSBORO----- | PITMAN EAST----- | 155 |
| 108 | 01474970 | MANTUA CREEK AT PITMAN----- | PITMAN WEST----- | 155 |
| 109 | 01475000 | MANTUA CREEK AT SEWELL----- | WOODBURY----- | 155 |
| 110 | 01475020 | REPAUPO CREEK: | | |
| | | STILL RUN NEAR MICKLETON----- | BRIDGEPORT----- | 156 |
| 111 | 01476600 | RACCOON CREEK NEAR MULICA HILL----- | PITMAN WEST----- | 156 |
| 112 | 01477100 | SOUTH BRANCH RACCOON CREEK NEAR MULICA HILL----- | WOODSTOWN----- | 156 |
| 113 | 01477118 | RACCOON CREEK NEAR SWEDSBORO----- | WOODSTOWN----- | 157 |
| 114 | 01477120 | OLDMANS CREEK NEAR WOODSTOWN----- | WOODSTOWN----- | 157 |
| 115 | 01477500 | SALEM RIVER AT WOODSTOWN----- | WOODSTOWN----- | 157 |
| 116 | 01482500 | NICHOMUS RUN NEAR WOODSTOWN----- | WOODSTOWN----- | 158 |
| 117 | 01482510 | SALEM RIVER AT SHARPTOWN----- | WOODSTOWN----- | 158 |
| 118 | 01482520 | MAJOR RUN AT SHARPTOWN----- | WOODSTOWN----- | 158 |
| 119 | 01482530 | ALLOWAY CREEK: | | |
| | | COOL RUN NEAR ALLOWAY----- | ALLOWAY----- | 158 |
| 120 | 01482900 | CEDAR BROOK NEAR ALLOWAY----- | ALLOWAY----- | 159 |
| 121 | 01482950 | ALLOWAY CREEK AT ALLOWAY----- | ALLOWAY----- | 159 |
| 122 | 01483000 | | | |

01464300 CROSSWICKS CREEK NEAR COOKSTOWN, NJ

LOCATION -- LAT 40 02 44, LONG 074 32 23, BURLINGTON COUNTY, AT BRIDGE ON BUNTING BRIDGE ROAD, 0.7 MI (1.1 KM) UPSTREAM FROM NORTH RUN, 1.2 MI (1.9 KM) EAST OF COOKSTOWN, AND 1.6 MI (2.6 KM) SOUTH OF NEW EGYPT.
 DRAINAGE AREA -- 21.2 SQ-MI (54.9 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408500, 01411000 AND 01464500. CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1966, 69-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 12 (0.34) | 9.8 (0.28) |

01464380 NORTH RUN AT COOKSTOWN, NJ

LOCATION -- LAT 40 02 58, LONG 074 33 47, BURLINGTON COUNTY, AT BRIDGE ON SPUR STATE ROUTE 528, AT DOWNSTREAM END OF COOKSTOWN POND AT COOKSTOWN, AND 1.1 MI (1.8 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 7.17 SQ-MI (18.59 SQ-KM)
 TRIBUTARY TO -- CROSSWICKS CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408500, 01411000 AND 01464500. CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1966, 69-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.0 (0.08) | 2.3 (0.07) |

01464460 LAHAWAY CREEK NEAR HORNERSTOWN, NJ

LOCATION -- LAT 40 06 24, LONG 074 32 12, MONMOUTH COUNTY, AT BRIDGE ON ALLENTOWN-NEW EGYPT ROAD, 0.3 MI (0.5 KM) DOWNSTREAM FROM LONG BOG RUN, AND 1.0 MI (1.6 KM) WEST OF HORNERSTOWN.
 DRAINAGE AREA -- 21.4 SQ-MI (55.4 SQ-KM)
 TRIBUTARY TO -- CROSSWICKS CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408500, 01411000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966, 69-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 9.1 (0.26) | 6.4 (0.18) |

01464480 MIRY RUN AT HOLMES MILLS, NJ

LOCATION -- LAT 40 08 02, LONG 074 32 35, MONMOUTH COUNTY, AT BRIDGE ON ALLENTOWN-NEW EGYPT ROAD AT HOLMES MILLS, 0.6 MI (1.0 KM) UPSTREAM FROM MOUTH, AND 1.0 MI (1.6 KM) WEST OF CREAM RIDGE.
 DRAINAGE AREA -- 3.15 SQ-MI (8.16 SQ-KM)
 TRIBUTARY TO -- CROSSWICKS CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01408500, 01411000 AND 01464500. CORRELATIONS RATED EXCELLENT.

LOW-FLOW FREQUENCY -- PERIOD 1966, 69-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.1 (0.03) | 0.8 (0.02) |

01464500 CROSSWICKS CREEK AT EXTENVILLE, NJ

LOCATION -- LAT 40 08 15, LONG 074 36 02, MERCER COUNTY, ON RIGHT BANK UPSTREAM FROM HIGHWAY BRIDGE AT EXTENVILLE, 0.5 MI (0.8 KM) UPSTREAM FROM PLEASANT RUN, AND 0.7 MI (1.1 KM) DOWNSTREAM FROM MERCER-MONMOUTH COUNTY LINE.

DRAINAGE AREA -- 83.6 SQ-MI (217 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 133 CU FT/S (3.77 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 3930 CU FT/S (111 CU M/S)

MINIMUM 16 CU FT/S (0.45 CU M/S)

REMARKS -- OCCASIONAL REGULATION; PROBABLY NOT SIGNIFICANT.

DURATION TABLE OF DAILY FLOW -- PERIOD 1941-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 596 | 380 | 254 | 166 | 132 | 111 | 93.5 | 79.5 | 66.1 | 54.2 | 41.9 | 34.5 | 29.7 | 26.3 | 24.0 |
| CU M/S | 16.9 | 10.8 | 7.19 | 4.70 | 3.74 | 3.14 | 2.65 | 2.25 | 1.87 | 1.53 | 1.19 | 0.977 | 0.841 | 0.745 | 0.680 |

LOW-FLOW FREQUENCY -- PERIOD 1942-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

2 YEARS

5 YEARS

10 YEARS

20 YEARS

| | | | | |
|----|-----------|-----------|-----------|-----------|
| 3 | 33 (0.93) | 25 (0.71) | 22 (0.62) | 19 (0.54) |
| 7 | 35 (0.99) | 27 (0.76) | 24 (0.68) | 21 (0.59) |
| 30 | 43 (1.2) | 33 (0.93) | 28 (0.79) | 25 (0.71) |
| 90 | 58 (1.6) | 45 (1.3) | 39 (1.1) | 34 (0.96) |

01464515 DOCTORS CREEK AT ALLENTOWN, NJ

LOCATION -- LAT 40 10 37, LONG 074 35 57, MONMOUTH COUNTY, AT BRIDGE ON BREZA ROAD IN ALLENTOWN, AND 0.8 MI (1.3 KM) DOWNSTREAM FROM CONINES MILLPOND DAM.

DRAINAGE AREA -- 17.2 SQ-MI (44.5 SQ-KM)

TRIBUTARY TO -- CROSSWICKS CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01401000, 01411000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966, 68-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

2 YEARS

10 YEARS

| | | |
|---|------------|------------|
| 7 | 4.2 (0.12) | 2.1 (0.06) |
|---|------------|------------|

01464530 BLACKS CREEK AT MANSFIELD SQUARE, NJ

LOCATION -- LAT 40 07 02, LONG 074 41 58, BURLINGTON COUNTY, AT BRIDGE ON MANSFIELD SQUARE-CROSSWICKS ROAD, 0.4 MI (0.6 KM) EAST OF MANSFIELD SQUARE, AND 3.4 MI (5.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 19.7 SQ-MI (51.0 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

2 YEARS

10 YEARS

| | | |
|---|------------|------------|
| 7 | 5.0 (0.14) | 3.2 (0.09) |
|---|------------|------------|

01464540 CRAFTS CREEK AT HEDDING, NJ

LOCATION -- LAT 40 06 01, LONG 074 45 23, BURLINGTON COUNTY, AT HIGHWAY BRIDGE ON OLD YORK ROAD, 0.2 MI (0.3 KM) DOWNSTREAM FROM SMALL TRIBUTARY, 0.8 MI (1.3 KM) SOUTHWEST OF HEDDING, AND 1.6 MI (2.6 KM) SOUTHEAST OF ROEBLING.

DRAINAGE AREA -- 10.6 SQ-MI (27.5 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-63

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE
DAYS

2 YEARS

10 YEARS

| | | |
|---|------------|------------|
| 7 | 0.5 (0.01) | 0.2 (0.01) |
|---|------------|------------|

01464580 ASSISCUNK CREEK AT COLUMBUS, NJ

LOCATION -- LAT 40 03 25, LONG 074 43 27, BURLINGTON COUNTY, AT BRIDGE ON U.S. ROUTE 206, 100 FT (30 M) DOWNSTREAM FROM SMALL TRIBUTARY, 1.1 MI (1.8 KM) SOUTH OF COLUMBUS, AND 2.1 MI (3.4 KM) NORTHWEST OF JOBSTOWN.
 DRAINAGE AREA -- 8.28 SQ-MI (21.45 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-63
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.6 (0.02) | 0.3 (0.01) |

01464590 ASSISCUNK CREEK NEAR BURLINGTON, NJ

LOCATION -- LAT 40 04 19, LONG 074 47 57, BURLINGTON COUNTY, AT BRIDGE ON OLD YORK ROAD, 3.3 MI (5.3 KM) EAST OF BURLINGTON, AND 4.3 MI (6.9 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 37.2 SQ-MI (96.3 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966-74
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 5.0 (0.14) | 3.2 (0.09) |

01465850 SOUTH BRANCH RANCOCAS CREEK AT VINCENTOWN, NJ

LOCATION -- LAT 39 56 22, LONG 074 45 50, BURLINGTON COUNTY, ON LEFT BANK 150 FT (50 M) DOWNSTREAM FROM HIGHWAY BRIDGE ON LUMBERTON-VINCENTOWN ROAD, 0.8 (1.3 KM) WEST OF VINCENTOWN, 2.9 MI (4.7 KM) SOUTHEAST OF LUMBERTON, AND 3.1 MI (5.0 KM) UPSTREAM FROM SOUTHWEST BRANCH.
 DRAINAGE AREA -- 64.5 SQ-MI (167.1 SQ-KM)
 TRIBUTARY TO -- RANCOCAS CREEK
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 95.7 CU FT/S (2.71 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 981 CU FT/S (27.8 CU M/S)
 MINIMUM 3.1 CU FT/S (0.09 CU M/S)
 REMARKS -- OCCASIONAL REGULATION; PROBABLY NOT SIGNIFICANT.

DURATION TABLE OF DAILY FLOW -- PERIOD 1962-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 369 | 258 | 196 | 137 | 107 | 88.1 | 73.4 | 59.3 | 46.2 | 32.7 | 20.7 | 15.7 | 11.8 | 9.44 | 8.04 |
| CU M/S | 10.5 | 7.31 | 5.55 | 3.88 | 3.03 | 2.49 | 2.08 | 1.68 | 1.31 | 0.926 | 0.586 | 0.445 | 0.334 | 0.267 | 0.228 |

LOW-FLOW FREQUENCY -- PERIOD 1963-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|------------|------------|------------|
| 3 | 11 (0.31) | 8.3 (0.24) | 7.1 (0.20) | 6.3 (0.18) |
| 7 | 14 (0.40) | 9.9 (0.28) | 8.3 (0.24) | 7.1 (0.20) |
| 30 | 20 (0.57) | 14 (0.40) | 12 (0.34) | 9.8 (0.28) |
| 90 | 30 (0.85) | 21 (0.59) | 17 (0.48) | 14 (0.40) |

01465880 SOUTHWEST BRANCH RANCOCAS CREEK AT MEDFORD, NJ

LOCATION -- LAT 39 53 43, LONG 074 49 26, BURLINGTON COUNTY, AT BRIDGE ON STATE ROUTE 541, 0.4 MI (0.6 KM) SOUTH OF MEDFORD, AND 0.7 MI (1.1 KM) DOWNSTREAM FROM HAYNES CREEK.
 DRAINAGE AREA -- 47.2 SQ-MI (122.2 SQ-KM)
 TRIBUTARY TO -- SOUTH BRANCH RANCOCAS CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000 AND 01464500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1961-66, 73
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 17 (0.48) | 11 (0.31) |

01465900 SOUTHWEST BRANCH RANOCAS CREEK AT EAYRESTOWN, NJ

LOCATION -- LAT 39 56 49, LONG 074 47 58, BURLINGTON COUNTY, AT HIGHWAY BRIDGE, 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH, 0.5 MI (0.8 KM) WEST OF EAYRESTOWN, AND 2.7 MI (4.3 KM) WEST OF VINCENTOWN.
 DRAINAGE AREA -- 76.2 SQ-MI (197.4 SQ-KM)
 TRIBUTARY TO -- SOUTH BRANCH RANOCAS CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000, 01464500 AND 01475000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-61
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 26 (0.74) | 14 (0.40) |

01466000 MIDDLE BRANCH MOUNT MISERY BROOK IN LEBANON STATE FOREST, NJ

LOCATION -- LAT 39 55 00, LONG 074 30 30, BURLINGTON COUNTY, ON RIGHT BANK IN LEBANON STATE FOREST, 20 FT (6 M) UPSTREAM FROM NORTH BRANCH ROAD BRIDGE, 0.3 MI (0.5 KM) UPSTREAM FROM SOUTH BRANCH MOUNT MISERY BROOK, AND 5.1 MI (8.2 KM) SOUTHEAST OF BROWNS MILLS.
 DRAINAGE AREA -- 2.73 SQ-MI (7.07 SQ-KM)
 TRIBUTARY TO -- MOUNT MISERY BROOK
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 1.93 CU FT/S (0.054 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 25 CU FT/S (0.71 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- UNRECORDED GROUND-WATER UNDERFLOW PAST STATION SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1953-65
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 7.53 | 5.71 | 4.42 | 3.19 | 2.47 | 1.98 | 1.56 | 1.13 | 0.669 | 0.302 | 0.051 | 0.007 |
| CU M/S | 0.213 | 0.162 | 0.125 | 0.090 | 0.070 | 0.056 | 0.044 | 0.032 | 0.019 | 0.009 | 0.001 | 0.000 |

LOW-FLOW FREQUENCY -- PERIOD 1954-65
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 7 | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 30 | 0.1 (0.00) | 0.0 (0.00) | 0.0 (0.00) | 0.0 (0.00) |
| 90 | 0.4 (0.01) | 0.2 (0.01) | 0.1 (0.00) | 0.0 (0.00) |

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ

LOCATION -- LAT 39 53 05, LONG 074 30 20, BURLINGTON COUNTY, ON RIGHT BANK IN LEBANON STATE FOREST, 25 FT (8 M) UPSTREAM FROM BUTTERWORTH ROAD BRIDGE, 3.4 MI (5.5 KM) UPSTREAM FROM CONFLUENCE WITH COOPER BRANCH, AND 7.0 MI (11.3 KM) SOUTHEAST OF BROWNS MILLS.
 DRAINAGE AREA -- 2.31 SQ-MI (5.98 SQ-KM)
 TRIBUTARY TO -- BISPHAMS MILL CREEK
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 2.33 CU FT/S (0.065 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 20 CU FT/S (0.57 CU M/S)
 MINIMUM 0.8 CU FT/S (0.02 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1954-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 5.97 | 4.69 | 3.90 | 3.01 | 2.57 | 2.27 | 2.05 | 1.85 | 1.65 | 1.46 | 1.26 | 1.14 | 1.06 | 1.03 | 1.01 |
| CU M/S | 0.169 | 0.133 | 0.110 | 0.085 | 0.073 | 0.064 | 0.058 | 0.052 | 0.047 | 0.041 | 0.036 | 0.032 | 0.030 | 0.029 | 0.029 |

LOW-FLOW FREQUENCY -- PERIOD 1955-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 1.1 (0.03) | 1.0 (0.03) | 0.9 (0.03) | 0.9 (0.03) |
| 7 | 1.2 (0.03) | 1.0 (0.03) | 1.0 (0.03) | 0.9 (0.03) |
| 30 | 1.2 (0.03) | 1.1 (0.03) | 1.0 (0.03) | 1.0 (0.03) |
| 90 | 1.4 (0.04) | 1.2 (0.03) | 1.1 (0.03) | 1.0 (0.03) |

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ

LOCATION -- LAT 39 58 10, LONG 074 41 05, BURLINGTON COUNTY, ON RIGHT BANK AT DOWNSTREAM SIDE OF HIGHWAY BRIDGE AT PEMBERTON, 12 MI (19 KM) UPSTREAM FROM CONFLUENCE WITH SOUTH BRANCH.
 DRAINAGE AREA -- 111 SQ-MI (287 SQ-KM)
 TRIBUTARY TO -- RANCOCAS CREEK
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 171 CU FT/S (4.84 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1690 CU FT/S (47.9 CU M/S)
 MINIMUM 9.0 CU FT/S (0.25 CU M/S)
 REMARKS -- ERRATIC REGULATION REDUCES FLOOD PEAKS SLIGHTLY AND OCCASIONALLY IS SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1922-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 509 | 387 | 307 | 237 | 196 | 168 | 144 | 122 | 101 | 82.7 | 64.4 | 52.8 | 44.6 | 39.3 | 35.3 |
| CU M/S | 14.4 | 11.0 | 8.69 | 6.71 | 5.55 | 4.76 | 4.08 | 3.46 | 2.86 | 2.34 | 1.82 | 1.50 | 1.26 | 1.11 | 1.00 |

LOW-FLOW FREQUENCY -- PERIOD 1923-75
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|----------|----------|-----------|-----------|
| 3 | 49 (1.4) | 37 (1.0) | 31 (0.88) | 27 (0.76) |
| 7 | 52 (1.5) | 40 (1.1) | 35 (0.99) | 31 (0.88) |
| 30 | 64 (1.8) | 50 (1.4) | 44 (1.2) | 40 (1.1) |
| 90 | 85 (2.4) | 65 (1.8) | 57 (1.6) | 51 (1.4) |

01467010 PARKERS CREEK NEAR MOUNT LAUREL, NJ

LOCATION -- LAT 39 57 05, LONG 074 53 45, BURLINGTON COUNTY, AT BRIDGE ON LIGHT-DUTY ROAD, 1.2 MI (1.9 KM) NORTH OF MOUNT LAUREL, AND 3.0 MI (4.8 KM) SOUTHEAST OF MOORESTOWN.
 DRAINAGE AREA -- 2.66 SQ-MI (6.89 SQ-KM)
 TRIBUTARY TO -- RANCOCAS CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01464500 AND 01475000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-72
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.1 (0.00) | 0.0 (0.00) |

01467020 MILL CREEK AT WILLINGBORO, NJ

LOCATION -- LAT 40 01 58, LONG 074 52 46, BURLINGTON COUNTY, AT BRIDGE ON KENNEDY PARKWAY IN WILLINGBORO, 0.7 MI (1.1 KM) UPSTREAM FROM SOUTH BRANCH, AND 3.1 MI (5.0 KM) SOUTHEAST OF BEVERLY.
 DRAINAGE AREA -- 7.73 SQ-MI (20.02 SQ-KM)
 TRIBUTARY TO -- RANCOCAS CREEK
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01464500 AND 01475000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-64, 76
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.5 (0.01) | 0.2 (0.01) |

01467057 POMPESTON CREEK AT CINNAMINSON, NJ

LOCATION -- LAT 40 00 11, LONG 074 59 00, BURLINGTON COUNTY, AT BRIDGE ON U.S. ROUTE 130, 0.7 MI (1.1 KM) NORTHEAST OF CINNAMINSON, 1.7 MI (2.7 KM) UPSTREAM FROM MOUTH, AND 2.1 MI (3.4 KM) EAST OF PALMYRA.
 DRAINAGE AREA -- 5.74 SQ-MI (14.87 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01464500, 01475000 AND 01477120. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1964-72
 PERIOD OF CONSECUTIVE DAYS AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.0 (0.00) |

01467070 NORTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE, NJ

LOCATION -- LAT 39 57 11, LONG 074 58 32, BURLINGTON COUNTY, AT BRIDGE ON LENOLA ROAD, 0.4 MI (0.6 KM) DOWNSTREAM FROM STRAWBRIDGE LAKE DAM, 1.0 MI (1.6 KM) EAST OF MAPLE SHADE, AND 1.7 MI (2.7 KM) SOUTHWEST OF MOORESTOWN.

DRAINAGE AREA -- 13.0 SQ-MI (33.7 SQ-KM)

TRIBUTARY TO -- PENNSAUKEN CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000 AND 01475000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-63

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.5 (0.07) | 1.2 (0.03) |

01467080 SOUTH BRANCH PENNSAUKEN CREEK AT MAPLE SHADE, NJ

LOCATION -- LAT 39 56 25, LONG 074 58 55, CAMDEN COUNTY, AT BRIDGE ON STATE ROUTE 41 (KINGS HIGHWAY) ON BURLINGTON-CAMDEN COUNTY LINE, 1.3 MI (2.1 KM) SOUTHEAST OF MAPLE SHADE, AND 5.2 MI (8.4 KM) UPSTREAM FROM CONFLUENCE WITH NORTH BRANCH PENNSAUKEN CREEK.

DRAINAGE AREA -- 8.13 SQ-MI (21.06 SQ-KM)

TRIBUTARY TO -- PENNSAUKEN CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000 AND 01475000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-67

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.2 (0.09) | 2.1 (0.06) |

01467081 SOUTH BRANCH PENNSAUKEN CREEK AT CHERRY HILL, NJ

LOCATION -- LAT 39 56 50, LONG 075 00 05, CAMDEN COUNTY, ON LEFT BANK ON DOWNSTREAM WINGWALL OF BRIDGE ON MILL ROAD IN CHERRY HILL, 1.1 MI (1.8 KM) SOUTH OF MAPLE SHADE, AND 3.8 MI (6.1 KM) UPSTREAM FROM THE CONFLUENCE WITH THE NORTH BRANCH.

DRAINAGE AREA -- 9.16 SQ-MI (23.72 SQ-KM)

TRIBUTARY TO -- PENNSAUKEN CREEK

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 18.3 CU FT/S (0.518 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 494 CU FT/S (14.0 CU M/S)
MINIMUM 3.0 CU FT/S (0.08 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1968-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 113 | 59.4 | 34.4 | 19.6 | 14.6 | 12.1 | 9.97 | 8.31 | 7.01 | 6.03 | 5.00 | 4.37 | 3.94 | 3.67 | 3.53 |
| CU M/S | 3.20 | 1.68 | 0.974 | 0.555 | 0.413 | 0.343 | 0.282 | 0.235 | 0.199 | 0.171 | 0.142 | 0.124 | 0.112 | 0.104 | 0.100 |

LOW-FLOW FREQUENCY -- PERIOD 1969-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 4.3 (0.12) | 3.4 (0.10) |

01467130 COOPER RIVER AT KIRKWOOD, NJ

LOCATION -- LAT 39 50 11, LONG 075 00 06, CAMDEN COUNTY, AT OUTLET OF KIRKWOOD LAKE IN KIRKWOOD, 100 FT (30 M) EAST OF TRACKS OF PENNSYLVANIA-READING SEASHORE LINES, AND 1.0 MI (1.6 KM) NORTH OF LAUREL SPRINGS.

DRAINAGE AREA -- 5.13 SQ-MI (13.29 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000 AND 01475000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.2 (0.06) | 1.2 (0.03) |

01467140 COOPER RIVER AT LAWNSIDE, NJ

LOCATION -- LAT 39 52 14, LONG 075 00 59, CAMDEN COUNTY, AT RIGHT BANK AT LAWNSIDE, 300 FT (90 M) DOWNSTREAM OF LAWNSIDE SEWAGE TREATMENT, AND 0.2 MI (0.3 KM) UPSTREAM OF NEW JERSEY TURNPIKE.
 DRAINAGE AREA -- 12.7 SQ-MI (32.9 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000 AND 01475000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 8.6 (0.24) | 5.9 (0.17) |

01467150 COOPER RIVER AT HADDONFIELD, NJ

LOCATION -- LAT 39 54 11, LONG 075 01 19, CAMDEN COUNTY, ON RIGHT BANK OF WALLWORTH LAKE IN PENNYPACKER PARK, 200 FT (60 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 41 (KINGS HIGHWAY) IN HADDONFIELD, 0.6 MI (1.0 KM) UPSTREAM FROM NORTH BRANCH COOPER RIVER, AND 7.7 MI (12.4 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 17.0 SQ-MI (44.0 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 34.1 CU FT/S (0.965 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1510 CU FT/S (42.8 CU M/S)
 MINIMUM 1.2 CU FT/S (0.03 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1964-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 165 | 93.6 | 58.0 | 37.7 | 30.5 | 26.3 | 23.2 | 20.7 | 18.6 | 16.3 | 13.6 | 11.1 | 8.86 | 7.40 | 6.10 |
| CU M/S | 4.67 | 2.65 | 1.64 | 1.07 | 0.864 | 0.745 | 0.657 | 0.586 | 0.527 | 0.462 | 0.385 | 0.314 | 0.251 | 0.210 | 0.173 |

LOW-FLOW FREQUENCY -- PERIOD 1965-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|------------|------------|------------|
| 3 | 11 (0.31) | 6.0 (0.17) | 3.9 (0.11) | 2.6 (0.07) |
| 7 | 12 (0.34) | 8.9 (0.25) | 7.4 (0.21) | 6.2 (0.18) |
| 30 | 15 (0.42) | 11 (0.31) | 9.2 (0.26) | 7.9 (0.22) |
| 90 | 19 (0.54) | 15 (0.42) | 13 (0.37) | 11 (0.31) |

01467160 NORTH BRANCH COOPER RIVER NEAR MARLTON, NJ

LOCATION -- LAT 39 53 20, LONG 074 58 08, CAMDEN COUNTY, AT BRIDGE ON BLACKTOP ROAD TO SPRINGDALE, 2.5 MI (4.0 KM) WEST OF MARLTON, AND 5.7 MI (9.2 KM) SOUTHWEST OF MOORESTOWN.
 DRAINAGE AREA -- 5.34 SQ-MI (13.83 SQ-KM)
 TRIBUTARY TO -- COOPER RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000 AND 01475000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-69, 71-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.6 (0.07) | 1.6 (0.05) |

01467180 NORTH BRANCH COOPER RIVER AT ELLISBURG, NJ

LOCATION -- LAT 39 54 27, LONG 075 00 42, CAMDEN COUNTY, ON BRACE ROAD (ELLISBURG-VERNON ROAD), 0.4 MI (0.6 KM) SOUTH OF ELLISBURG, AND 0.9 MI (1.4 KM) UPSTREAM FROM CONFLUENCE WITH COOPER RIVER.
 DRAINAGE AREA -- 10.5 SQ-MI (27.2 SQ-KM)
 TRIBUTARY TO -- COOPER RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000 AND 01475000. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-69, 71-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 5.2 (0.14) | 3.3 (0.09) |

01467305 NEWTON CREEK AT COLLINGSWOOD, NJ

LOCATION -- LAT 39 54 30, LONG 075 03 13, CAMDEN COUNTY, AT BRIDGE ON PARK AVENUE AT COLLINGSWOOD, 0.3 MI (0.5 KM) EAST OF COLLINGSWOOD BORO LINE.

DRAINAGE AREA -- 1.32 SQ-MI (3.42 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000, 01475000 AND 01477120. CORRELATIONS RATED FAIR, REGULATION SUSPECTED.

LOW-FLOW FREQUENCY -- PERIOD 1964-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

2 YEARS

10 YEARS

7

0.5 (0.01)

0.3 (0.01)

01467312 NEWTON CREEK AT WEST COLLINGSWOOD, NJ

LOCATION -- LAT 39 54 05, LONG 075 05 42, CAMDEN COUNTY, AT BRIDGE ON ROUTE 168 AT WEST COLLINGSWOOD, 1.7 MI (2.7 KM) SOUTHWEST OF COLLINGSWOOD, AND 2.9 MI (4.7 KM) NORTHWEST OF HADDONFIELD.

DRAINAGE AREA -- 3.48 SQ-MI (9.01 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000, 01475000 AND 01477120. CORRELATIONS RATED FAIR, REGULATION SUSPECTED.

LOW-FLOW FREQUENCY -- PERIOD 1964-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

2 YEARS

10 YEARS

7

5.9 (0.17)

3.5 (0.10)

01467315 SOUTH BRANCH NEWTON CREEK AT GLOVER AVENUE, AT HADDON HEIGHTS, NJ

LOCATION -- LAT 39 52 47, LONG 075 04 08, CAMDEN COUNTY, AT BRIDGE ON GLOVER AVENUE IN HADDON HEIGHTS, 2.4 MI (3.9 KM) SOUTHWEST OF HADDONFIELD, AND 2.6 MI (4.2 KM) SOUTH OF COLLINGSWOOD.

DRAINAGE AREA -- 0.52 SQ-MI (1.35 SQ-KM)

TRIBUTARY TO -- NEWTON CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000, 01475000 AND 01477120. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1968-74

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

2 YEARS

10 YEARS

7

0.1 (0.00)

0.1 (0.00)

01467317 SOUTH BRANCH NEWTON CREEK AT 13TH AVENUE, AT HADDON HEIGHTS, NJ

LOCATION -- LAT 39 52 45, LONG 075 04 26, CAMDEN COUNTY, AT BRIDGE ON 13TH AVENUE IN HADDON HEIGHTS, 2.4 MI (3.9 KM) SOUTHWEST OF HADDONFIELD, AND 2.6 MI (4.2 KM) SOUTH OF COLLINGSWOOD.

DRAINAGE AREA -- 0.63 SQ-MI (1.63 SQ-KM)

TRIBUTARY TO -- NEWTON CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01409400, 01411000, 01475000 AND 01477120. CORRELATIONS RATED FAIR. SEWAGE TREATMENT PLANT DISCHARGES EFFLUENT ABOVE GAGE.

LOW-FLOW FREQUENCY -- PERIOD 1964-67

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

2 YEARS

10 YEARS

7

1.5 (0.04)

1.3 (0.04)

01467330 SOUTH BRANCH BIG TIMBER CREEK AT BLACKWOOD, NJ

LOCATION -- LAT 39 48 17, LONG 075 04 33, CAMDEN COUNTY, AT BRIDGE ON LOWER LANDING ROAD AT BLACKWOOD (ON CAMDEN-GLOUCESTER COUNTY LINE), 3.0 MI (4.8 KM) UPSTREAM FROM MOUTH, AND 3.1 MI (5.0 KM) SOUTHWEST OF LINDENWOLD.

DRAINAGE AREA -- 19.1 SQ-MI (49.5 SQ-KM)

TRIBUTARY TO -- BIG TIMBER CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01475000 AND 01477120. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1964-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE

DAYS

| | 2 YEARS | 10 YEARS |
|---|-----------|-----------|
| 7 | 17 (0.48) | 13 (0.37) |

01467350 NORTH BRANCH BIG TIMBER CREEK AT LAUREL SPRINGS, NJ

LOCATION -- LAT 39 48 55, LONG 075 00 04, CAMDEN COUNTY, AT BRIDGE ON PARK AVENUE AT LAUREL SPRINGS, 1.0 MI (1.6 KM) NORTHWEST OF CLEMENTON, AND 5.6 MI (9.0 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 6.55 SQ-MI (16.96 SQ-KM)

TRIBUTARY TO -- BIG TIMBER CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01475000 AND 01477120. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1959-71

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE

DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 7.4 (0.21) | 5.7 (0.16) |

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA

LOCATION -- LAT 39 58 00, LONG 075 11 20, PHILADELPHIA COUNTY, ON RIGHT BANK 150 FT (50 M) UPSTREAM FROM FAIRMOUNT DAM, 1,500 FT (460 M) UPSTREAM FROM SPRING GARDEN STREET BRIDGE IN PHILADELPHIA, AND 8.7 MI (14.0 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA -- 1893 SQ-MI (4903 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 2903 CU FT/S (82.2 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 93400 CU FT/S (645 CU M/S)

MINIMUM 0.6 CU FT/S (0.02 CU M/S)

REMARKS -- SOME REGULATION; PROBABLY NOT SIGNIFICANT. DIVERSION REDUCES FLOW AT ALL TIMES; SIGNIFICANT AT LOW FLOW AND MEDIUM FLOWS.

DURATION TABLE OF DAILY FLOW -- PERIOD 1932-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 12500 | 8360 | 5890 | 3910 | 2830 | 2110 | 1600 | 1210 | 875 | 596 | 345 | 219 | 120 | 87.0 | 65.3 |
| CU M/S | 354 | 237 | 167 | 111 | 80.1 | 59.8 | 45.3 | 34.3 | 24.8 | 16.9 | 9.77 | 6.20 | 3.40 | 2.46 | 1.85 |

LOW-FLOW FREQUENCY -- PERIOD 1933-75

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

CONSECUTIVE

DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|-----------|-----------|-----------|-----------|
| 3 | 240 (6.8) | 91 (2.6) | 48 (1.4) | 26 (0.74) |
| 7 | 260 (7.4) | 120 (3.4) | 73 (2.1) | 47 (1.3) |
| 30 | 370 (10) | 190 (5.4) | 130 (3.7) | 93 (2.6) |
| 90 | 670 (19) | 350 (9.9) | 250 (7.1) | 180 (5.1) |

01474950 MANTUA CREEK AT GLASSBORO, NJ

LOCATION -- LAT 39 42 52, LONG 075 05 32, GLOUCESTER COUNTY, AT BRIDGE AT DOWNSTREAM END OF LAKE OBSERT, AND 1.5 MI (2.4 KM) NORTHEAST OF GLASSBORO.
 DRAINAGE AREA -- 1.20 SQ-MI (3.11 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01475000 AND 01477120. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1965-66, 74-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.5 (0.01) | 0.2 (0.01) |

01474970 MANTUA CREEK AT GREENTREE ROAD, AT GLASSBORO, NJ

LOCATION -- LAT 39 43 31, LONG 075 06 06, GLOUCESTER COUNTY, AT BRIDGE ON GREENTREE ROAD, 1.1 MI (1.8 MI) UPSTREAM FROM KRESSY LAKE DAM, AND 1.3 MI (2.1 KM) EAST OF PITMAN.
 DRAINAGE AREA -- 2.78 SQ-MI (7.20 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01475000 AND 01477120. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1965-66, 74-77
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.4 (0.07) | 1.6 (0.05) |

01475000 MANTUA CREEK AT PITMAN, NJ

LOCATION -- LAT 39 44 14, LONG 075 06 53, GLOUCESTER COUNTY, ON LEFT ABUTMENT OF WADSWORTH DAM, 0.9 MI (1.5 KM) EAST OF PITMAN, AND 2.0 MI (3.2 KM) UPSTREAM FROM PORCH BRANCH.
 DRAINAGE AREA -- 6.05 SQ-MI (15.67 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 11.5 CU FT/S (0.325 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 470 CU FT/S (13.3 CU M/S)
 MINIMUM 2.6 CU FT/S (0.07 CU M/S)
 REMARKS -- SLIGHT REGULATION; PROBABLY NOT SIGNIFICANT.

DURATION TABLE OF DAILY FLOW -- PERIOD 1942-75
 DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 29.2 | 20.9 | 17.1 | 13.9 | 12.3 | 11.3 | 10.1 | 9.24 | 8.62 | 7.81 | 6.79 | 5.79 | 4.72 | 4.28 | 3.60 |
| CU M/S | 0.827 | 0.592 | 0.484 | 0.394 | 0.348 | 0.320 | 0.286 | 0.262 | 0.244 | 0.221 | 0.192 | 0.164 | 0.134 | 0.121 | 0.102 |

LOW-FLOW FREQUENCY -- PERIOD 1942-75
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 5 YEARS | 10 YEARS | 20 YEARS |
|----|------------|------------|------------|------------|
| 3 | 5.8 (0.16) | 4.4 (0.12) | 3.8 (0.11) | 3.3 (0.09) |
| 7 | 6.1 (0.17) | 4.7 (0.13) | 4.1 (0.12) | 3.6 (0.10) |
| 30 | 6.9 (0.20) | 5.5 (0.16) | 4.7 (0.13) | 4.2 (0.12) |
| 90 | 8.3 (0.24) | 6.6 (0.19) | 5.7 (0.16) | 4.9 (0.14) |

01475020 MANTUA CREEK AT SEWELL, NJ

LOCATION -- LAT 39 46 22, LONG 075 08 10, GLOUCESTER COUNTY, AT BRIDGE ON ROUTE 553 (WENONAH-PITMAN ROAD), 0.5 MI (0.8 KM) BELOW BEES BRANCH, AND 0.6 MI (1.0 KM) EAST OF SEWELL.
 DRAINAGE AREA -- 14.7 SQ-MI (38.1 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
 REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01475000 AND 01477120. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966-72
 PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
 CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 9.1 (0.26) | 6.2 (0.18) |

01476600 STILL RUN NEAR MICKLETON, NJ

LOCATION -- LAT 39 47 19, LONG 075 15 27, GLOUCESTER COUNTY, ON LEFT BANK AT DOWNSTREAM SIDE OF COUNTY HIGHWAY BRIDGE, 1.0 MI (1.6 KM) WEST OF MICKLETON, AND 3.4 MI (5.5 KM) UPSTREAM FROM CONFLUENCE WITH PARGEY CREEK.

DRAINAGE AREA -- 3.95 SQ-MI (10.23 SQ-KM)

TRIBUTARY TO -- REPAUPO CREEK

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 5.18 CU FT/S (0.146 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 137 CU FT/S (3.88 CU M/S)

MINIMUM 0.2 CU FT/S (0.01 CU M/S)

REMARKS -- DIVERSION SIGNIFICANT AT LOW FLOW DURING GROWING SEASON.

DURATION TABLE OF DAILY FLOW -- PERIOD 1958-66

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 19.0 | 13.0 | 9.01 | 6.52 | 5.31 | 4.70 | 4.15 | 3.61 | 3.10 | 2.60 | 1.94 | 1.40 | 1.01 | 0.766 | 0.624 |
| CU M/S | 0.538 | 0.368 | 0.255 | 0.185 | 0.150 | 0.133 | 0.118 | 0.102 | 0.088 | 0.074 | 0.055 | 0.040 | 0.029 | 0.022 | 0.018 |

LOW-FLOW FREQUENCY -- PERIOD 1959-66

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 1.4 (0.04) | 0.7 (0.02) |

01477100 RACCOON CREEK NEAR MULLICA HILL, NJ

LOCATION -- LAT 39 42 31, LONG 075 12 05, GLOUCESTER COUNTY, AT HIGHWAY BRIDGE ON CEDAR GROVE-RICHWOOD ROAD, 0.6 MI (1.0 KM) UPSTREAM FROM MIERY RUN, 1.0 MI (1.6 KM) DOWNSTREAM FROM OUTLET OF EWAN LAKE, 2.5 MI (4.0 KM) SOUTHEAST OF MULLICA HILL, AND 4.0 MI (6.4 KM) SOUTHWEST OF PITMAN.

DRAINAGE AREA -- 10.1 SQ-MI (26.2 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01475000 AND 01482500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1959-63

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 3.7 (0.10) | 1.6 (0.05) |

01477118 SOUTH BRANCH RACCOON CREEK NEAR MULLICA HILL, NJ

LOCATION -- LAT 39 44 09, LONG 075 15 23, GLOUCESTER COUNTY, AT BRIDGE ON HILL STREET, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH AND 1.7 MI (2.7 KM) WEST OF MULLICA HILL.

DRAINAGE AREA -- 8.30 SQ-MI (21.50 SQ-KM)

TRIBUTARY TO -- RACCOON CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01475000, 01477120 AND 01482500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1966-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.0 (0.06) | 1.0 (0.03) |

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ

LOCATION -- LAT 39 44 28, LONG 075 15 33, GLOUCESTER COUNTY, ON RIGHT BANK 25 FT, (8 M) DOWNSTREAM FROM COUNTY BRIDGE NO. 5-F-3 ON HARRISON-GIBBSTOWN ROAD, 1.8 MI (2.9 KM) WEST OF MULICA HILL, AND 2.8 MI (4.5 KM) EAST OF SWEDESBORO.
 DRAINAGE AREA -- 29.9 SQ-MI (77.4 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 44.6 CU FT/S (1.26 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 1260 CU FT/S (35.7 CU M/S)
 MINIMUM 7.3 CU FT/S (0.21 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1967-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 200 | 110 | 75.1 | 53.7 | 44.3 | 37.8 | 32.6 | 28.2 | 24.1 | 19.7 | 15.6 | 13.2 | 10.4 | 9.13 | 8.27 |
| CU M/S | 5.66 | 3.12 | 2.13 | 1.52 | 1.25 | 1.07 | 0.923 | 0.799 | 0.683 | 0.558 | 0.442 | 0.374 | 0.295 | 0.259 | 0.234 |

LOW-FLOW FREQUENCY -- PERIOD 1968-75

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|-----------|------------|
| 7 | 12 (0.34) | 8.4 (0.24) |

01477500 OLDMANS CREEK NEAR WOODSTOWN, NJ

LOCATION -- LAT 39 41 27, LONG 075 19 09, SALEM COUNTY, ON LEFT BANK AT UPSTREAM SIDE OF BRIDGE ON WOODSTOWN-SWEDESBORO HIGHWAY, 2.0 MI (3.2 KM) NORTH OF WOODSTOWN, AND 16.0 MI (25.7 KM) UPSTREAM FROM MOUTH.
 DRAINAGE AREA -- 19.3 SQ-MI (50.0 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 29.0 CU FT/S (0.821 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 2500 CU FT/S (70.8 CU M/S)
 MINIMUM 5.1 CU FT/S (0.14 CU M/S)

DURATION TABLE OF DAILY FLOW -- PERIOD 1932-40

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 108 | 70.0 | 50.6 | 36.9 | 29.7 | 24.7 | 20.7 | 17.2 | 14.6 | 12.1 | 9.72 | 8.34 | 6.95 | 5.90 | 5.45 |
| CU M/S | 3.06 | 1.98 | 1.43 | 1.05 | 0.841 | 0.700 | 0.586 | 0.487 | 0.413 | 0.343 | 0.275 | 0.236 | 0.197 | 0.167 | 0.154 |

LOW-FLOW FREQUENCY -- PERIOD 1933-40

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 8.6 (0.24) | 6.0 (0.17) |

01482500 SALEM RIVER AT WOODSTOWN, NJ

LOCATION -- LAT 39 38 36, LONG 075 19 52, SALEM COUNTY, ON RIGHT END OF MEMORIAL LAKE AT WOODSTOWN, 0.2 MI (0.3 KM) DOWNSTREAM FROM PENNSYLVANIA-READING SEASHORE LINES BRIDGE.
 DRAINAGE AREA -- 14.6 SQ-MI (37.8 SQ-KM)
 TRIBUTARY TO -- DELAWARE RIVER
 STATION TYPE -- CONTINUOUS RECORD GAGING STATION
 AVERAGE DISCHARGE -- 19.1 CU FT/S (0.540 CU M/S)
 DAILY DISCHARGE EXTREMES -- MAXIMUM 912 CU FT/S (25.8 CU M/S)
 MINIMUM 0.0 CU FT/S (0.00 CU M/S)
 REMARKS -- REGULATION REDUCES FLOOD PEAKS AND IS SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1943-75

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% | 99.5% |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CU FT/S | 98.0 | 55.8 | 34.9 | 22.6 | 17.9 | 15.1 | 12.2 | 9.95 | 8.19 | 6.02 | 4.27 | 3.02 | 1.36 | 0.483 | 0.299 |
| CU M/S | 2.78 | 1.58 | 0.988 | 0.640 | 0.507 | 0.428 | 0.346 | 0.282 | 0.232 | 0.170 | 0.121 | 0.086 | 0.039 | 0.014 | 0.008 |

LOW-FLOW FREQUENCY -- PERIOD 1943-75

PERIOD OF
CONSECUTIVE
DAYS

AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.4 (0.07) | 0.6 (0.02) |

01482510 NICHOMUS RUN NEAR WOODSTOWN, NJ

LOCATION -- LAT 39 38 22, LONG 075 20 59, SALEM COUNTY, AT BRIDGE ON STATE ROUTE 45, 1.4 MI (2.3 KM) SOUTHWEST OF WOODSTOWN, AND 1.6 MI (2.6 KM) UPSTREAM FROM MOUTH.
DRAINAGE AREA -- 3.76 SQ-MI (9.74 SQ-KM)
TRIBUTARY TO -- SALEM RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411000, 01477120 AND 01482500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966-74
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.2 (0.01) | 0.1 (0.00) |

01482520 SALEM RIVER AT SHARPTOWN, NJ

LOCATION -- LAT 39 39 09, LONG 075 22 05, SALEM COUNTY, AT BRIDGE ON KINGS HIGHWAY (SALEM-SHARPTOWN ROAD), 0.4 MI (0.6 KM) SOUTHWEST OF SHARPTOWN, AND 0.7 MI (1.1 KM) ABOVE MAJOR RUN.
DRAINAGE AREA -- 27.3 SQ-MI (70.7 SQ-KM)
TRIBUTARY TO -- DELAWARE RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411500, 01477120 AND 01482500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1966-72, 74-75
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 6.2 (0.18) | 3.5 (0.10) |

01482530 MAJOR RUN AT SHARPTOWN, NJ

LOCATION -- LAT 39 38 56, LONG 075 22 29, SALEM COUNTY, AT BRIDGE ON KINGS HIGHWAY (SALEM-SHARPTOWN ROAD) 0.4 MI (0.6 KM) UPSTREAM FROM MOUTH, AND 0.7 MI (1.1 KM) SOUTHWEST OF SHARPTOWN.
DRAINAGE AREA -- 3.04 SQ-MI (7.87 SQ-KM)
TRIBUTARY TO -- SALEM RIVER
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411500, 01477120 AND 01482500. CORRELATIONS RATED GOOD.

LOW-FLOW FREQUENCY -- PERIOD 1966-72, 74-75
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 0.4 (0.01) | 0.2 (0.01) |

01482900 COOL RUN NEAR ALLOWAY, NJ

LOCATION -- LAT 39 34 43, LONG 075 18 36, SALEM COUNTY, AT HIGHWAY BRIDGE ON STOCKINGTON-PLEASANT HILL ROAD, 0.5 MI (0.8 KM) UPSTREAM FROM MOUTH, 3.0 MI (4.8 KM) NORTHEAST OF ALLOWAY, AND 3.3 MI (5.3 KM) SOUTHWEST OF DARETOWN.
DRAINAGE AREA -- 4.92 SQ-MI (12.74 SQ-KM)
TRIBUTARY TO -- ALLOWAY CREEK
STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION
REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411500, 01475000 AND 01482500. CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1959-63
PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE DAYS

| | 2 YEARS | 10 YEARS |
|---|------------|------------|
| 7 | 2.5 (0.07) | 1.5 (0.04) |

01482950 CEDAR BROOK NEAR ALLOWAY, NJ

LOCATION -- LAT 39 33 31, LONG 075 20 22, SALEM COUNTY, AT HIGHWAY BRIDGE ON SECONDARY ROAD, 400 FT (120 M)
DOWNSTREAM FROM OUTLET OF SYCAMORE LAKE (AT REMSTERVILLE), 1.3 MI (2.1 KM) EAST OF ALLOWAY, AND 5.3 MI
(8.5 KM) SOUTHWEST OF DARETOWN.

DRAINAGE AREA -- 3.76 SQ-MI (9.74 SQ-KM)

TRIBUTARY TO -- ALLOWAY CREEK

STATION TYPE -- LOW-FLOW PARTIAL-RECORD STATION

REMARKS -- LOW-FLOW FREQUENCY ESTIMATES BASED ON CORRELATIONS WITH GAGING STATIONS 01411500, 01475000 AND 01482500.
CORRELATIONS RATED FAIR.

LOW-FLOW FREQUENCY -- PERIOD 1959-63

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 1.2 (0.03) | 0.5 (0.01) |

01483000 ALLOWAY CREEK AT ALLOWAY, NJ

LOCATION -- LAT 39 33 55, LONG 075 21 35, SALEM COUNTY, ON RIGHT BANK AT ALLOWAY LAKE DAM AT ALLOWAY, 0.8 MI
(1.3 KM) UPSTREAM FROM DEEP RUN.

DRAINAGE AREA -- 21.9 SQ-MI (56.7 SQ-KM)

TRIBUTARY TO -- DELAWARE RIVER

STATION TYPE -- CONTINUOUS RECORD GAGING STATION

AVERAGE DISCHARGE -- 23.7 CU FT/S (0.67 CU M/S)

DAILY DISCHARGE EXTREMES -- MAXIMUM 1040 CU FT/S (29.4 CU M/S)

MINIMUM 0.0 CU FT/S (0.00 CU M/S)

REMARKS -- REGULATION REDUCES FLOOD PEAKS AND IS SIGNIFICANT AT LOW FLOW.

DURATION TABLE OF DAILY FLOW -- PERIOD 1953-72

DISCHARGE WHICH WAS EXCEEDED FOR INDICATED PERCENT OF TIME

| | | | | | | | | | | | | | | |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 2.0% | 5.0% | 10.0% | 20.0% | 30.0% | 40.0% | 50.0% | 60.0% | 70.0% | 80.0% | 90.0% | 95.0% | 98.0% | 99.0% |
| CU FT/S | 118 | 72.8 | 48.4 | 32.1 | 24.9 | 19.6 | 15.5 | 12.3 | 8.90 | 6.47 | 4.15 | 2.51 | 0.099 | 0.050 |
| CU M/S | 3.34 | 2.06 | 1.37 | 0.909 | 0.705 | 0.555 | 0.439 | 0.348 | 0.252 | 0.183 | 0.118 | 0.071 | 0.003 | 0.001 |

LOW-FLOW FREQUENCY -- PERIOD 1954-72

PERIOD OF AVERAGE ANNUAL MINIMUM DISCHARGE IN CU FT/S (CU M/S) FOR INDICATED RECURRENCE INTERVALS
CONSECUTIVE
DAYS

| | | |
|---|------------|------------|
| | 2 YEARS | 10 YEARS |
| 7 | 2.4 (0.07) | 0.1 (0.00) |

| | Station number | Page |
|--|-------------------|------|
| A | | |
| Absecon, Absecon Creek at----- | 01410500 | 110 |
| Absecon Creek at Absecon----- | 01410500 | 110 |
| Adelphia, Debois Creek at----- | 01407860 | 91 |
| Albertson Brook near Hamonton----- | 01409410 | 106 |
| Alexauken Creek near Lambertville----- | 01461900 | 137 |
| Allendale, Valentine Brook at----- | 01390800 | 47 |
| Allentown, Doctors Creek at----- | 01464515 | 147 |
| Allenwood, Manasquan River at----- | 01408030 | 93 |
| Alloway, Alloway Creek at----- | 01483000 | 159 |
| Cedar Brook near----- | 01482950 | 159 |
| Cool Run near----- | 01482900 | 158 |
| Alloway Creek at Alloway----- | 01483000 | 159 |
| Applegarth, Millstone River at----- | 01400560 | 68 |
| Assiscunk Creek at Columbus----- | 01464580 | 148 |
| near Burlington----- | 01464590 | 148 |
| Assumpink Creek at Trenton----- | 01464000 | 141 |
| near Clarksville----- | 01463620 | 139 |
| Atco, Mullica River near----- | 01409375 | 103 |
| Atsion, Clark Branch near----- | 01409405 | 105 |
| Mullica River at----- | 01409390 | 103 |
| Mullica River tributary near----- | 01409395 | 103 |
| Sleeper Branch near----- | 01409404 | 104 |
| Springers Brook near----- | 01409460 | 106 |
| Awosting, Wanaque River at----- | 01383500 | 37 |
| B | | |
| Babcock Creek at Mays Landing----- | 01411200 | 112 |
| Bakersville, Little Shabakunk Creek at----- | 01463690 | 139 |
| Shipetaukin Creek at----- | 01463670 | 139 |
| Baldwin Creek at Baldwin Lake, near Pennington----- | 01400932 | 73 |
| at Pennington----- | 01400930 | 73 |
| Baldwin Lake, Baldwin Creek at, near Pennington----- | 01400932 | 73 |
| Bartley, Drakes Brook at----- | 01396180 | 58 |
| South Branch Raritan River at----- | 01396120 | 57 |
| Basking Ridge, Great Brook near----- | 01377850 | 28 |
| Batsto, Batsto River at----- | 01409500 | 107 |
| Mullica River near----- | 01409400 | 104 |
| Sleeper Branch at----- | 01409406 | 105 |
| Batsto River at Batsto----- | 01409500 | 106 |
| Bear Brook at Princeton Junction----- | 01400810 | 72 |
| near Grovers Mill----- | 01400800 | 71 |
| near Hickory Corner----- | 01400750 | 71 |
| Bear Swamp Brook near Oakland----- | 01387700 | 42 |
| Beaver Brook near Belvidere----- | 01446000 | 130 |
| near Weldon----- | 01455355 | 133 |
| near Woodport----- | 01455360 | 133 |
| Beaverdam Brook near Patricks Corner----- | 01404700 | 81 |
| Beaver Run near Hamburg----- | 01367750 | 21 |
| Beden Brook near Hopewell----- | 01401520 | 76 |
| near Rocky Hill----- | 01401600 | 77 |
| Belcher Creek at Stowaway Road, at West Milford----- | 01382870 | 36 |
| at West Milford----- | 01382890 | 36 |
| Belcher Creek tributary at West Milford----- | 01382880 | 36 |
| Belle Mead, Royce Brook tributary near----- | 01402600 | 78 |
| Belleville, Second River at----- | 01392500 | 49 |
| Belvidere, Beaver Brook near----- | 01446000 | 130 |
| Delaware River at----- | 01446500 | 131 |
| Berkshire Valley, Rockaway River at----- | 01379700 | 30 |
| Berlin, Great Egg Harbor River at----- | 01410775 | 110 |
| Bernardsville, Passaic River near----- | 01378690 | 27 |
| Bethlehem, PA, Lehigh River at----- | 01453000 | 131 |
| Bidwell Ditch tributary near Cape May Court House----- | 01411410 | 116 |
| Bidwell Ditch tributary No. 2 near Cape May Court House----- | 01411412 | 117 |
| Big Brook at Vanderburg----- | 01407300 | 88 |
| Big Flat Brook at Tuttles Corner----- | 01439830 | 125 |
| near Hainesville----- | 01439800 | 125 |
| Black Brook near Meyersville----- | 01378900 | 28 |
| Blacks Creek at Mansfield Square----- | 01464530 | 147 |
| Blackwells Mills, Millstone River at----- | 01402000 | 78 |
| Six Mile Run at----- | 01401900 | 77 |
| Ten Mile Run near----- | 01401800 | 77 |
| Blackwood, South Branch Big Timber Creek at----- | 01467330 | 154 |
| Blairstown, Paulins Kill at----- | 01443500 | 128 |
| Yards Creek near----- | 01443900 | 129 |
| Blawenburg, Rock Brook at----- | 01401590 | 76 |
| Bloombury, Musconetcong River near----- | 01457000 | 135 |
| Blue Anchor, Blue Anchor Brook near----- | 01409409 | 105 |
| Great Egg Harbor River near----- | 01410820 | 111 |
| Pump Branch near----- | 01409407 | 105 |
| Blue Anchor Brook near Blue Anchor----- | 01409409 | 105 |
| Blue Mine Brook near Wanaque----- | 01386500 | 40 |
| Boonton, Crooked Brook near----- | 01381150 | 32 |
| Rockaway River above Reservoir, at----- | 01380500 | 31 |
| Rockaway River below Reservoir, at----- | 01381000 | 32 |
| Bound Brook at Middlesex----- | 01403900 | 80 |
| Bound Brook, Raritan River below Calco Dam, at----- | 01403060 | 79 |
| Branchville, Culvers Creek at----- | 01443400 | 127 |

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|---|-------------------|------|
| C | | |
| Brookville, Oyster Creek near----- | 01409095 | 97 |
| Browtown, Deep Run near----- | 01406000 | 84 |
| Budd Lake, South Branch Raritan River at outlet of----- | 01396090 | 57 |
| South Branch Raritan River tributary No. 6 at----- | 01396070 | 57 |
| South Branch Raritan River tributary No. 7 at----- | 01396080 | 57 |
| Burlington, Assiscunk Creek near----- | 01464590 | 148 |
| Burnett Brook near Chester----- | 01398360 | 63 |
| Burnt Mills, Middle Brook at----- | 01399100 | 64 |
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| Cakepoulin Creek at Lansdowne----- | 01396900 | 60 |
| Calco Dam, Raritan River below, at Bound Brook----- | 01403060 | 79 |
| Canton, Canton Drain near----- | 01413060 | 119 |
| Canton Drain near Canton----- | 01413060 | 119 |
| Cape May Court House, Bidwell Ditch tributary near----- | 01411410 | 116 |
| Bidwell Ditch tributary No. 2 near----- | 01411412 | 117 |
| Dias Creek near----- | 01411408 | 116 |
| Carnegie Lake, Millstone River at, at Princeton----- | 01401301 | 75 |
| Carpentersville, Pohatcong Creek at----- | 01455300 | 132 |
| Cedar Brook near Alloway----- | 01482950 | 159 |
| Cedar Creek at Lanoka Harbor----- | 01409000 | 96 |
| Cedar Run near Manahawkin----- | 01409250 | 102 |
| Chambers Brook at North Branch Depot----- | 01399900 | 67 |
| near North Branch----- | 01399820 | 67 |
| Chatham, Passaic River near----- | 01379500 | 29 |
| Chatsworth, West Branch Wading River near----- | 01409730 | 107 |
| Cherry Hill, South Branch Pennsauken Creek at----- | 01467081 | 151 |
| Chesilhurst, Hays Mill Creek near----- | 01409402 | 104 |
| Wildcat Branch at----- | 01409403 | 104 |
| Chester, Burnett Brook near----- | 01398360 | 63 |
| North Branch Raritan River near----- | 01398260 | 63 |
| Cinnaminson, Pomeston Creek at----- | 01467057 | 150 |
| Clark Branch near Atsion----- | 01409405 | 105 |
| Clarksville, Assumpink Creek near----- | 01463620 | 139 |
| Duck Pond Run at----- | 01401200 | 75 |
| Stony Brook at----- | 01401100 | 75 |
| Clermont, Sluice Creek at----- | 01411430 | 117 |
| Clifton, Weasel Brook at----- | 01392000 | 48 |
| Clinton, Mulhockaway Creek near----- | 01396700 | 60 |
| Spruce Run at----- | 01396800 | 60 |
| Spruce Run near----- | 01396600 | 59 |
| Closter, Tenakill Brook at----- | 01378385 | 25 |
| Clove Acres Lake, Clove Brook above, at Sussex----- | 01367890 | 22 |
| Clove Brook above Clove Acres Lake, at Sussex----- | 01367890 | 22 |
| at Sussex----- | 01367900 | 22 |
| Cold Brook at Oldwick----- | 01399540 | 65 |
| Coles Brook at Hackensack----- | 01378560 | 26 |
| Collingswood, Newton Creek at----- | 01467305 | 153 |
| Colts Neck, Mine Brook at----- | 01407450 | 89 |
| Yellow Brook at----- | 01407400 | 88 |
| Columbia, Stony Brook near----- | 01442800 | 127 |
| Columbus, Assiscunk Creek at----- | 01464580 | 148 |
| Cookstown, Crosswicks Creek near----- | 01464300 | 146 |
| North Run at----- | 01464380 | 146 |
| Cooley Brook near West Milford----- | 01382990 | 37 |
| Cool Run near Alloway----- | 01482900 | 158 |
| Cooper River at Haddonfield----- | 01467150 | 152 |
| at Kirkwood----- | 01467130 | 151 |
| at Lawnside----- | 01467140 | 152 |
| Crafts Creek at Hedding----- | 01464540 | 147 |
| Cranbury Brook at Cranbury Station----- | 01400700 | 70 |
| at Old Church----- | 01400670 | 70 |
| Cranbury Station, Cranbury Brook at----- | 01400700 | 70 |
| Cresskill, Tenakill Brook at----- | 01378350 | 24 |
| Crooked Brook near Boonton----- | 01381150 | 32 |
| Crosswicks Creek at Extonville----- | 01464500 | 147 |
| near Cookstown----- | 01464300 | 146 |
| Culvers Creek at Branchville----- | 01443400 | 127 |
| Cupsaw Brook near Wanaque----- | 01385000 | 39 |
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| Darlington Brook at Darlington----- | 01387600 | 42 |
| Darlington, Darlington Brook at----- | 01387600 | 42 |
| Ramapo River near----- | 01387670 | 42 |
| Davidsons Mill Pond, Lawrence Brook at outlet of----- | 01404300 | 81 |
| Dawsons Brook near Ironia----- | 01398300 | 63 |
| Dead River near Millington----- | 01379200 | 29 |
| Debois Creek at Adelphia----- | 01407860 | 91 |
| Deep Run near Browtown----- | 01406000 | 84 |
| Delaware River at Belvidere----- | 01446500 | 131 |
| at Lambertville----- | 01462000 | 137 |
| at Montague----- | 01438500 | 125 |
| at Port Jervis, NY----- | 01434000 | 124 |
| at Riegelsville----- | 01457500 | 135 |
| at Trenton----- | 01463500 | 138 |
| below Tocks Island, near Delaware Water Gap, PA----- | 01440200 | 127 |
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