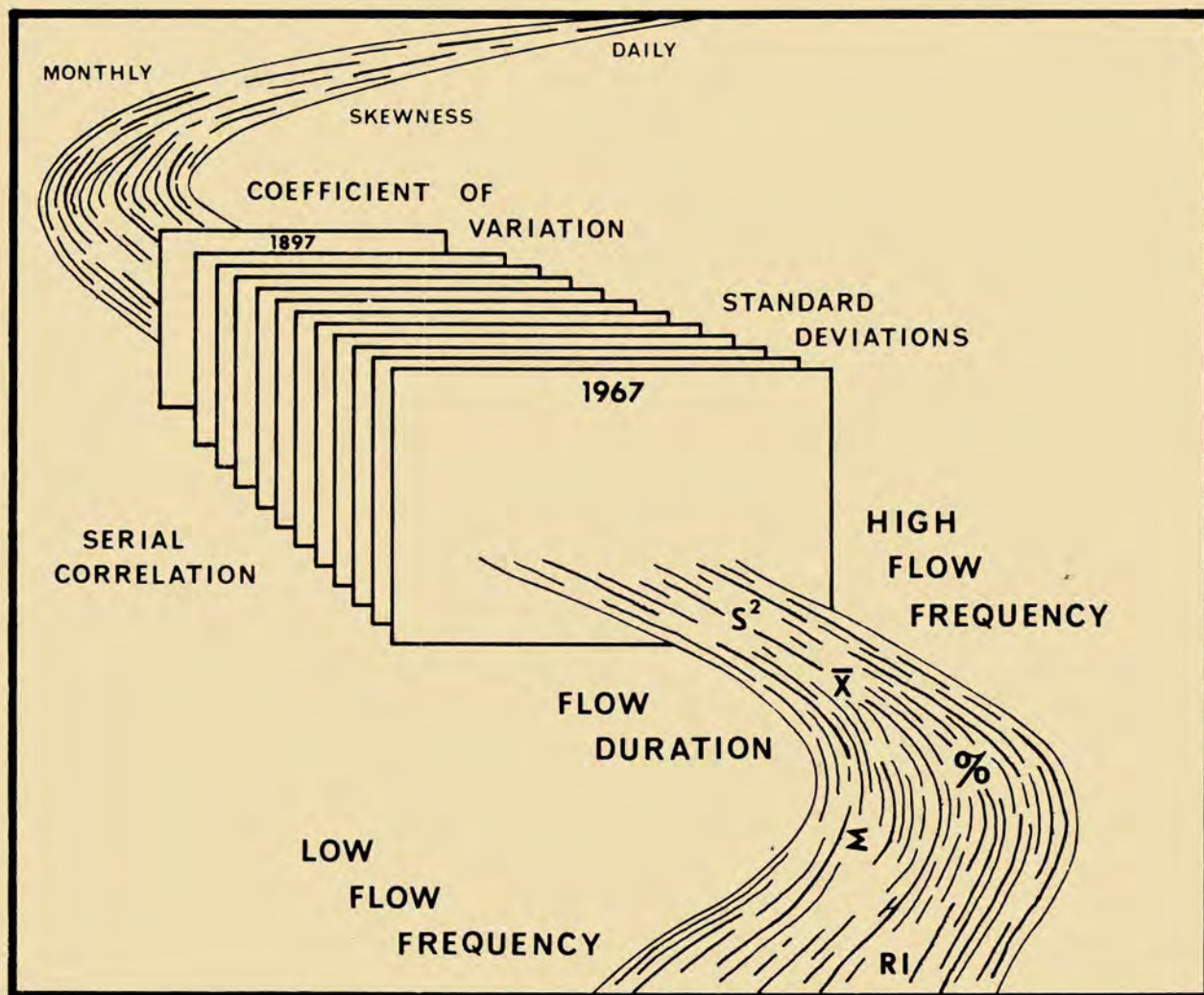


STATISTICAL SUMMARIES OF NEW JERSEY STREAMFLOW RECORDS

WATER RESOURCES CIRCULAR 23



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL
PROTECTION
DIVISION OF WATER POLICY
AND SUPPLY

Prepared in cooperation with
United States Department of the Interior
Geological Survey

1970

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OF NEW JERSEY
STREAMFLOW RECORDS

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By

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Prepared by the U.S. Geological Survey
in cooperation with the
State of New Jersey
Department of Environmental Protection
Division of Water Policy and Supply

1970

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STATISTICAL SUMMARIES OF NEW JERSEY STREAMFLOW RECORDS

By S. L. Laskowski

INTRODUCTION

Purpose and Scope

In 1961 the U.S. Geological Survey prepared a report which was published by the State of New Jersey as Water Resources Circular 6, "New Jersey Streamflow Records analyzed with Electronic Computer" by Miller and McCall. Basic discharge data for periods of record through 1958 were analyzed for 59 stream-gaging stations in New Jersey and flow-duration, low-flow, and high-flow tables were presented.

The purpose of the current report is to update and expand Circular 6 by presenting, with a few meaningful statistics and tables, the bulk of the information that may be obtained from the mass of streamflow records available. The records for 79 of approximately 110 stream-gaging stations presently or previously operated in New Jersey, plus records for three stations in Pennsylvania, and one in New York are presented in summarized form. In addition to including a greater number of stations in this report, more years of record and more tables are listed for each station. A description of the station, three arrangements of data summarizing the daily flow records and one table listing statistics of the monthly mean flows are provided. No data representing instantaneous extreme flows are given. Plotting positions for the three types of curves describing the characteristics of daily discharge are listed for each station. Statistical parameters are also presented so that alternate curves may be drawn.

All stations included in this report have 5 or more years of record. The data presented herein are based on observed flow past the gaging station. For any station where the observed flow is affected by regulation or diversion, a "Remarks" paragraph, explaining the possible effect on the data, is included in the station description.

Since any streamflow record is a sample in time, the data derived from these records can provide only a guide to expected future flows. For this reason the flow records are analyzed by statistical techniques, and the magnitude of sampling errors should be recognized.

These analyzed data will be useful to a large number of municipal, state, and federal agencies, industries, utilities, engineers, and hydrologists concerned with the availability, conservation, control, and use of surface waters. The tabulated data and curves illustrated herein can be used to select sites for water supplies, to determine flood or drought storage requirements, and to appraise the adequacy of flows for dilution of wastes or generation of power. The statistical values presented herein can be used in computer programs available in many universities, Federal and State agencies, and engineering firms for a broad spectrum of research and other studies.

Concepts and Definitions

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

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

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. The low-flow period will usually occur in the climatic year having the same designation as the calendar year.

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

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.

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

Flow, observed.--The flow of a stream, either natural or regulated, as it occurs at the gaging station.

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 have been equaled or exceeded (fig. 1). 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. Thus, for instance, it is not possible 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 and for comparing one stream with another.

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 (fig. 2). Low-flow frequency is expressed as the average interval, in years, between recurrence of an annual minimum flow equal to or 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.

High-flow frequency curve.--A graph showing the relation between the magnitude and frequency of the annual highest mean flow for a given number of consecutive days (fig. 3).

Recurrence interval.--The average time interval, in years, within which a given hydrologic event will occur once. The recurrence interval is sometimes called the return period. Mathematically, it is the reciprocal of the probability that the given hydrologic event will occur in any one year.

Ranking numbers.--Numbers which indicate where a particular value stands with respect to other values. Low-flow data are ranked from the lowest discharge to the highest. High-flow data are ranked from the highest to the lowest.

Statistical information.--The mean, standard deviation, skewness coefficient, and coefficient of variation computed both from the observed discharges and from the base-10 logarithms of these discharges are presented in tables 2a ^{1/}, 3a, and 4. The variance is also given in tables 2a and 3a. These parameters can be used in fitting various mathematical curves to the discharge data from which they are computed. The serial correlation coefficient (tables 2a, 3a, and 4) and the standard error of the skewness (tables 2a and 3a) are also given for the purpose of checking assumptions. The serial correlation coefficient is used to verify the assumption of a random sample and the standard error of skewness checks the possible assumption of a normal or log-normal population. The percent of the mean yearly volume (table 4) indicates what part of the total annual flow occurred in the given month. All of these statistical parameters are defined and illustrated in the appendix.

Use of Log-Pearson Type III Distribution in this Report

The log-Pearson Type III distribution is a cumulative probability distribution determined from the base-10 logarithms of the sample observations. It is used in this report to compute data for both the low-and high-flow frequency curves. The lowest (or highest) mean discharges each year for various numbers of consecutive days are the sample observations, and the cumulative probabilities are expressed as recurrence intervals.

This report lists discharges for recurrence intervals up to 100 years for all stations. It is generally accepted that frequency curves should be extended to a recurrence interval of only about twice the observed period of record and that the accuracy of the discharges for recurrence intervals larger than this is questionable. Although some confidence may be lost in the discharge values for recurrence intervals of 100 years at several stations with relatively few years of record, these values are listed so that the user may have a rough approximation of the magnitude of the discharge at this recurrence interval.

^{1/} Numbers are used to identify the tables in the text and in the analyzed records for South Branch Raritan River near High Bridge (see page 96) for illustrative purposes. The tables for all other gaging stations are not numbered, but all are arranged in the same order as those for the High Bridge station.

Since it is believed that low-flow data result from a combination of numerous variables, the correct distribution to be used in determining frequency curves has been the subject of much discussion. Matalas (1963) in his study of four theoretical probability distributions concluded that both the log-Pearson Type III and the Gumbel distributions fit the low-flow data equally well and were more representative of the probability distribution of low flows than the other methods investigated. Discharges computed by the log-Pearson method are available to the reader in table 2b.

The log-Pearson method has been recommended by the Water Resources Council (1968) and has been accepted by all federal agencies and many states as the standard technique for determining flood frequencies in the United States. Water Resources Council Bulletin No. 15 (1967) and Benson (1968) give a complete discussion on this subject.

The validity of the assumption that the data presented in tables 2a and 3a has a log-Pearson Type III distribution was checked by the author. Each log-Pearson frequency curve was compared, by visual inspection, against frequency curves constructed by the graphical fitting method (Riggs, 1966), since the latter method required no assumption as to the type of distribution. The data for almost every curve in this report have an absolute value of the skewness of the logs of the discharges that is less than 2.0. For these curves, the fit of the log-Pearson curves to the graphical curves is considered satisfactory and the log-Pearson discharge values are listed in tables 2b and 3b. For the few curves where the absolute value of the skewness of the logs exceeds 2.0 the adequacy of the fit is not as good and the use of the log-Pearson distribution is questionable. The discharge values listed for those curves whose fit is inadequate are determined by a graphical fitting method.

Logarithmic-Probability Paper

Various types of paper can be used for plotting flow-duration and frequency curves. For general use, logarithmic-probability paper, with probabilities given along the abscissa, is recommended because of its availability and its straightening effect on the curves. Flow-duration curves, relating discharges and probabilities, may be plotted directly on this paper.

In constructing frequency curves, recurrence intervals, or sometimes probabilities, are plotted against discharges. The recurrence interval can easily be calculated from the probability by the following equation:

$$RI = \frac{1}{P} \times 100$$

where RI is the recurrence interval in years and P, for low-flow curves, is the probability, in percent, of a flow being less than or equal to the given flow during any one year. P, for high-flow curves, is the probability, in percent, that the given flow will be exceeded during any one year.

The illustrations of the flow-duration curve (fig. 1) and the frequency curves (figs. 2 and 3) are plotted on logarithmic-probability paper. For illustrative purposes the frequency curves are presented with the recurrence intervals along the bottom of the graph and their corresponding probabilities, in percent, along the top.

STATION DESCRIPTION

The description of the station gives the location, drainage area and, if necessary, remarks relating to regulation and diversion. The location of the gaging station and the drainage area are obtained from the most accurate maps available. The "remarks" paragraph is included only for those stations where there is a possibility that some of the data presented for that station does not represent natural flow. The degree to which the data reflect natural flow conditions depends on the significance of regulation and diversion on the data. The amount of regulation and diversion of New Jersey streams varies widely throughout the state and sometimes changes with increasing population and area development. For these reasons a thorough investigation of regulation and diversion should be made as part of any hydrologic study. The data for many stations in this report are not seriously affected by regulation or diversion. For stations where the data may be affected, the user is alerted to this possibility by a precautionary statement in the "remarks" paragraph. These general statements indicate which part of the flow may be significantly affected (that is, low, medium, or high flow), and during which years this effect was present. If no time period is given for the effect, the statement pertains to the entire period of record. For the most accurate use of the tables these remarks should be considered together with additional information on the magnitude and frequency of regulation and diversion through the years. Much information on these conditions is available in the U.S. Geological Survey annual surface-water reports and water-supply papers listed in the selected bibliography. Magnitude and frequency are important considerations in determining the extent of the effect of regulation or diversion on the data. For example, suppose the user is alerted in the "remarks" paragraph that diversion may be significant at low flow and finds, in other publications that about 10 cubic feet per second (cfs) was diverted from the stream several times each year on isolated days. From this information he might conclude that only 1 and 3 consecutive day low-flow data should be adjusted and that the effect on the other low-and high-flow data and the flow-duration curve is negligible. On the other hand, if it is found that the diversion is 3 cfs each day for the entire summer during most years, the conclusion might be that adjustments are necessary for the low-flow data for 1 to perhaps 120 consecutive days. Therefore, for stations where regulation or diversion may affect parts of the data, the user should investigate this condition and determine if the data needed for his purposes are significantly affected.

The U.S. Geological Survey surface-water reports give complete descriptions of all gaging stations. These descriptions include a more detailed location paragraph, drainage area, equipment used, sea level datum, average discharge, instantaneous maximum and minimum recorded discharges, and other pertinent information. Gaging-station data are listed in downstream order in each basin, with stations near the headwaters listed first. The station number shown on each data sheet refers to the national numbering system of the Geological Survey, which is also given in downstream order.

This report presents information for high and low flows of 1 to 365 consecutive days rather than instantaneous flow data. Therefore, the highest and lowest mean daily discharges are used in the log-Pearson distribution. In most cases, the use of the mean daily flows will create a difference between the discharges listed herein for the 1-day high and low flow data at various recurrence intervals and the discharges for those same recurrence intervals calculated by using instantaneous flows. Information on instantaneous peak discharges are available in other publications including those by Thomas (1964), and Tice (1968).

FLOW-DURATION TABLES AND CURVES

Table 1a for each gaging station shows the distribution of daily discharge according to magnitude. Table 1b summarizes the data for the period of record in a form suitable for the preparation of a flow-duration table or curve.

For each water year, the 365 figures (366 in leap years) of daily discharge are separated into class intervals chosen to provide about 30 well-distributed class ranges from the lowest to the highest discharge experienced at the gaging station. Each daily discharge figure is counted in the class where the discharge equals or exceeds the lower limit of the class but is less than the lower limit of the next higher class. The classes are identified by numbers at the head of the columns in the tabulation. The class limits corresponding to the class numbers are shown in the summary table below the listing of yearly data. The discharge figure opposite the class number is the lower limit for that class. The range for a given class is from the discharge shown opposite the class number up to but not including the discharge shown opposite the next higher class number.

The numbers in the yearly tabulations show for each year the number of days that fell in each class. Although the data are ordinarily used in the summary form of a flow-duration table or curve, much valuable information can be obtained by a brief examination of the figures themselves. The pattern of the figures shows at a glance the years when there were unusually high or low discharges. The range of discharge is at once apparent, and the frequency of occurrence of discharges of various values can be estimated. Also changes in runoff characteristics caused by urbanization or regulation sometimes can be observed in a general way.

The frequency of specified discharges at a gaging station given in table 1b can be used to construct a flow-duration curve. This is a simple procedure which takes only a few minutes. The plotting points are obtained directly from two of the five columns in the table. No computations are required. The figures in the column headed "CFS" are plotted as ordinates and the figures in the column headed "PERCT" are plotted as abscissas (fig. 1). After the points are plotted, a smooth curve is fitted to the data. The completed curve shows the percent of time during which specified discharges were equaled or exceeded in the period of record used in the tabulation. For example, the daily discharges of South Branch Raritan River near High Bridge (fig. 1) was at least 77 cfs during 50 percent of the time in the period 1919-67.

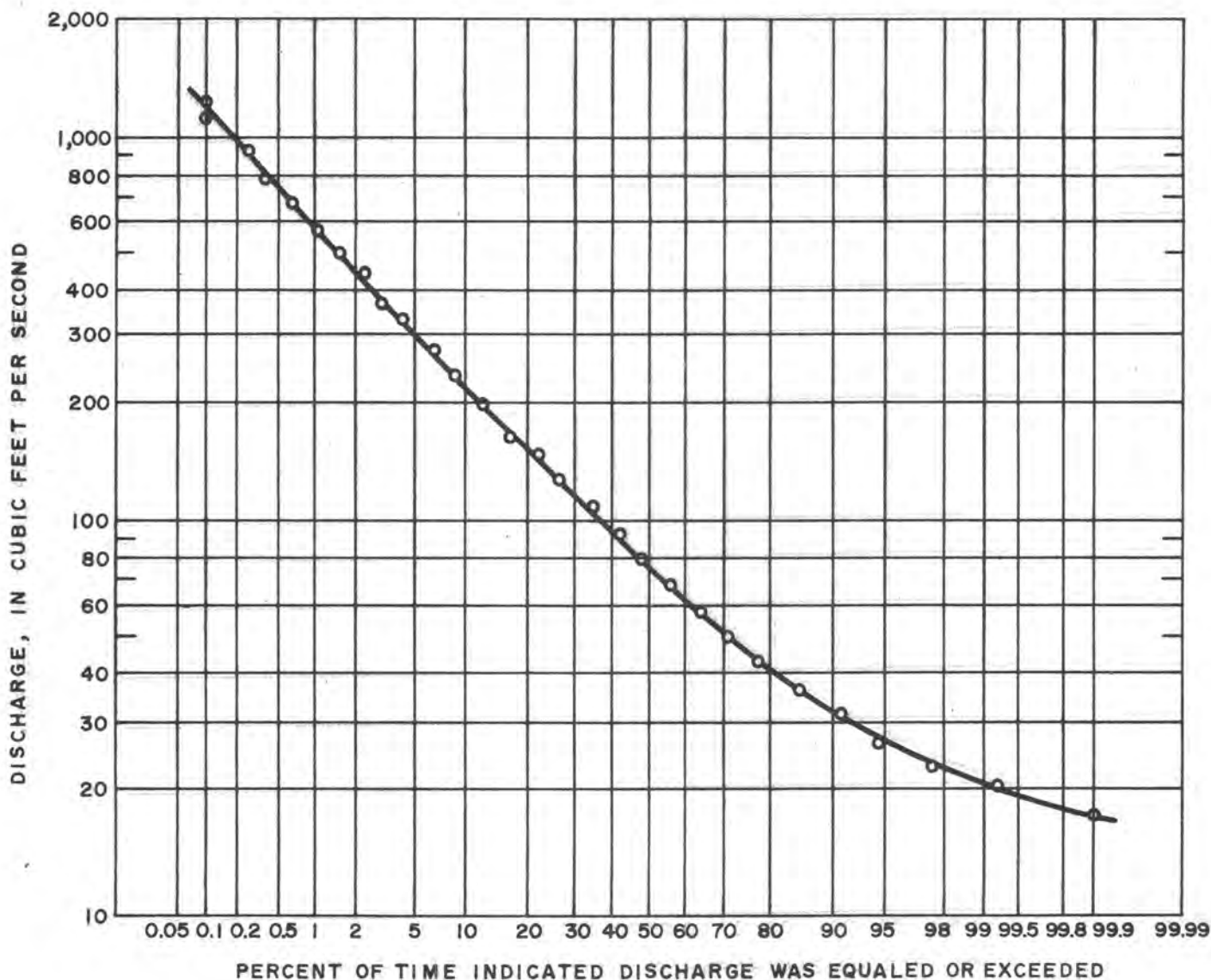


Figure 1.-- Duration curve of daily flow, South Branch Raritan River near High Bridge, N. J., 1919-1967.

The other columns in the summary table not previously mentioned were used to compute the data for the plotting points. The third column, headed "TOTAL", shows the total number of days that fell in each class during the entire period of the tabulation. The next column, headed "ACCUM", shows the cumulative total number of days starting with the highest class and accumulating to the lowest class. The last column, headed "PERCT", which is one of the columns used for the plotting positions, shows the percent of the total number of days in the period of the tabulation that equaled or exceeded the discharge listed in the "CFS" column.

LOW-FLOW TABLES AND CURVES

The second arrangement of data for each gaging station consists of two tables of low-flow data. Table 2a shows the lowest mean discharge, in cubic feet per second, and its corresponding ranking number, in each climatic year for 1, 3, 7, 14, 30, 90, 120, 183, and 365 consecutive days. The ranking number places the lowest mean discharge in each year for the given number of consecutive days in increasing numerical order from the lowest discharge value listed to the highest. These numbers can be used to graphically construct the frequency curves (see Riggs, 1966). At the end of table 2a the mean, variance, standard deviation, skewness, standard error of skewness, serial correlation coefficient, and the coefficient of variation are listed for each array of lowest mean flows for the various lengths of time. These values are also tabulated for the logs of the discharges. All of these parameters are presented so that the user may calculate the frequency curve desired or select other information needed for his particular analysis.

Table 2b, computed by the log-Pearson Type III method, consists of discharges and corresponding recurrence intervals of 1.01 to 100 years and yields either a single curve for a specific number of consecutive days under consideration, or a family of curves for the listed lengths of time. At some stations various discharge values are significantly affected by regulation or diversion. Frequently curves are not given for those stations where the effects of regulation and diversion are considered to be very large. At several stations there was no flow at least once during the station's period of record. Zero values in an array of low-flow discharge data for a given number of consecutive days were omitted by the computer in the computation of the statistics and frequency curve for that array. The statistics are published with the zero values excluded. The frequency curves were recalculated to include the zero discharges if these discharges were not the result of regulation.

Several stations were affected by a change in the computer program that occurred before all stations were processed. The result of the change was that for a few of the stations with less than 10 years of record or less than 10 non-zero input values, some or all of the statistics and log-Pearson Type III frequency curves were not computed.

No computations are required to plot the low-flow frequency curves from table 2b. To illustrate the procedure, the 14-day low-flow data are used as an example. The discharges in the column titled "14" are plotted as ordinates and the corresponding frequencies found in the column "RECURRENCE INTERVAL" and expressed in years, are plotted as abscissas (fig. 2). After all the values for this column are plotted a smooth curve may be drawn through the points. Similarly, an individual curve may be drawn for each column of figures representing a different length of consecutive days. Thus, a family of 10 curves would result showing the low-flow frequency for specified mean flows for various lengths of time ranging from 1 to 365 consecutive days. Each curve in a given family should be somewhat uniform in shape and should not overlap another curve. (See figures 2 and 3). In this report each curve was computed independently of the other curves in the family. This method of computation results, in several cases, in curves that are non-uniform in shape or curves that overlap at the very high or very low recurrence intervals. The "smoothing" of these curves to correct these situations is left to the user. In practice, not all curves are needed to develop a comprehensive picture of the low-flow characteristics of a stream. In figure 2, the lengths of 1, 14, 90, 183, and 365 consecutive days were chosen to present the range of the curves for the sample station and to illustrate their pattern. In the chosen example a mean flow equal to or less than 20 cfs for 14 consecutive days could be expected once every 15 years at South Branch Raritan River near High Bridge (fig. 2). It should be realized, however, that the instantaneous low flow may be less than the mean daily low flow. In the High Bridge example, the discharge may fall below 20 cfs at various times during the 14-day period.

HIGH-FLOW TABLES AND CURVES

The third arrangement of information, high-flow data, is presented similarly to the low-flow data. Table 3a gives the highest mean discharge, in cubic feet per second, of each year for the designated number of consecutive days. Beside each discharge is its corresponding ranking number from the highest to the lowest such mean discharge in each time period. As in the case of the low-flow tabulations statistical parameters are listed at the end of the table. Much valuable information, such as flood volumes for various periods of time, can be extracted from table 3a with only a brief examination.

Table 3b, calculated by the log-Pearson method gives discharge values for corresponding recurrence intervals of 1.01 to 100 years. The high-flow frequency curves may be plotted directly from this table without calculations, using the same procedure as described for the low-flow curves in the previous section. The discharge figures are found in the column headed with the number of consecutive days desired and are plotted as ordinates (fig. 3). The corresponding recurrence intervals are plotted as abscissas. When all points are plotted, a smooth line is drawn through them. A single curve may be drawn for a specific purpose,

or a family of curves may be drawn for a broad picture or a more extensive study. As was the case with the low-flow data each curve in the family was computed independently of the others. If necessary, the user should "smooth" these curves so that they are uniform in shape and do not overlap. In figure 3, curves were drawn for the highest mean discharge for 1, 15, 90, 183, and 365 consecutive days. As an example of the use of these curves, a high flow averaging 600 cfs could be expected to persist for 15 days only once every 50 years for South Branch Raritan River at High Bridge (fig. 3). However, it is possible that the instantaneous peaks may greatly exceed 600 cfs during this period.

TABLES FOR MONTHLY STATISTICS

The monthly mean discharges for each gaging station are listed in several publications including the U.S. Geological Survey annual surface-water reports and compilation reports. Table 4 presents monthly statistics for both the array of all monthly means and the logs of these monthly means for all complete water years of record. The statistics given are the mean, standard deviation, skewness, coefficient of variation, and serial correlation coefficient of the monthly means. Also given is the average percentage of the total annual flow that has occurred in the given month for all complete water years of record.

The serial correlation coefficient gives the relationship, for the entire period of record, between the monthly mean discharges for the designated month and the monthly mean discharges for the preceeding month. At some stations the period of record is not continuous and the computer, while calculating the coefficient for October, correlated the monthly mean discharge for the first October after the break in record with the monthly mean discharge for the last September before the break in record. The resulting error in the serial correlation coefficient for October at these stations in most cases is not considered large and the coefficient is listed with the appropriate footnote.

The computer did not correctly manipulate zero values when calculating statistics of the logarithms of the monthly mean discharges. Therefore, at stations where one or more monthly mean discharges equal zero during the period of record, all statistics of the logarithms of the discharges for that month and some statistics for other months are not published.

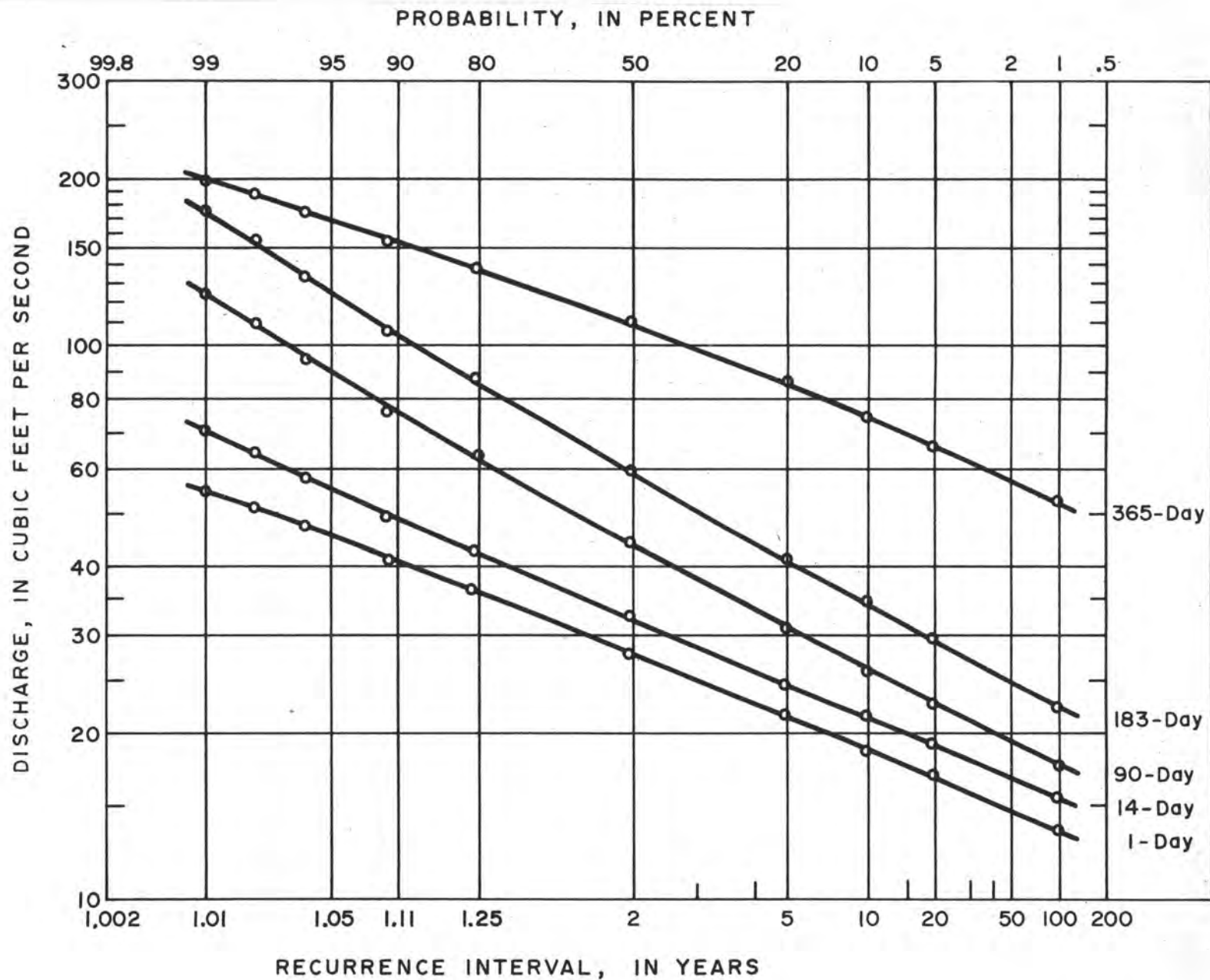


Figure 2.-- Low-flow frequency curves for South Branch Raritan River near High Bridge, N. J., 1919 - 1967.

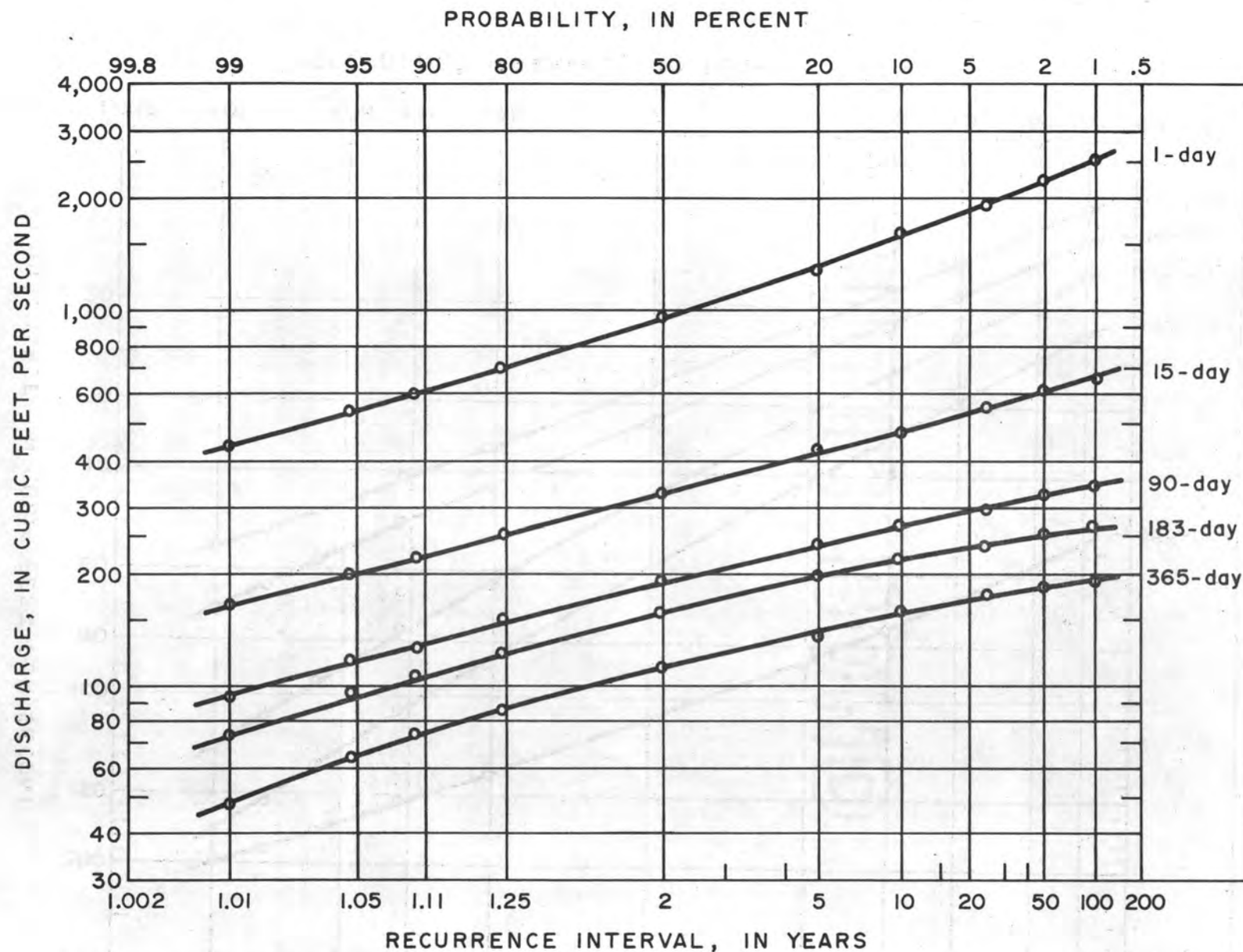


Figure 3.-- High-flow frequency curves for South Branch Raritan River near High Bridge, N. J., 1919-1967.

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Year	WSP	Year	WSP	Year	WSP	Year	WSP	Year	WSP
1902	82	1915	401	1928	661	1940	891	1952	1232
1903	97	1916	431	1929	681	1941	921	1953	1272
1904	125	1917	451	1930	696	1942	951	1954	1332
1905	166	1918	471	1931	711	1943	971	1955	1382
1906	202	1919-20	501	1932	726	1944	1001	1956	1432
1907-8	241	1921	521	1933	741	1945	1031	1957	1502
1909	261	1922	541	1934	756	1946	1051	1958	1552
1910	281	1923	561	1935	781	1947	1081	1959	1622
1911	301	1924	581	1936	801	1948	1111	1960	1702
1912	321	1925	601	1937	821	1949	1141		
1913	351	1926	621	1938	851	1950	1171		
1914	381	1927	641	1939	871	1951	1202		

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APPENDIX

The following is a listing of the definitions of the statistical terms used in tables 2a, 3a and 4. The 1-day low-flow data for South Branch Raritan River near High Bridge, N.J. will unless otherwise noted be used to illustrate the computation of the terms listed. The abbreviations used in the tables are given in parentheses.

Mean.--The mean is a representation of the center of a distribution of a group of numbers. The arithmetic mean ($\bar{X}$), listed in this report, is the average of the discharges given for each time period and is defined as:

$$\text{Mean} = \frac{\sum_{i=1}^N X_i}{N} \quad \text{where}$$

X_i is the discharge for each time period, and N is the number of discharge values listed. At High Bridge the mean for the array of 1-day low-flow data is:

$$\begin{aligned} \bar{X} &= \frac{[28.000 + 31.000 + \dots + 13.000]}{48} \\ &= 29.208 \end{aligned}$$

Variance (VAR).--The variance is a measure of the dispersion of individual observations about their mean. The variance (S^2) given herein indicates the variation of the tabulated discharge values from their mean ($\bar{X}$). It is defined mathematically as:

$$S^2 = \frac{\sum_{i=1}^N (X_i - \bar{X})^2}{N-1}$$

For our example

$$\begin{aligned} S^2 &= \frac{[(28.000-29.208)^2 + (31.000-29.208)^2 + \dots + (13.000-29.208)^2]}{48-1} \\ &= 80.722 \end{aligned}$$

Standard Deviation (STD DEV).--The standard deviation (S) is another index of variation. It is the square root of the variance and is expressed in the same units as the original data. Mathematically,

$$S = \left[\frac{\sum_{i=1}^N (X_i - \bar{X})^2}{N-1} \right]^{1/2} = [\text{Variance}]^{1/2}$$

In our example,

$$S = (80.722)^{1/2} \\ = 8.985$$

Skewness (SKEW).--Skewness (skewness coefficient) is a dimensionless measure of the degree of departure from symmetry of a distribution. If the distribution is skewed to the right the value is positive. If it is skewed to the left it is negative. For our uses the skewness will indicate the degree to which the individual discharge values (X) lack symmetry around the mean discharge ($\bar{X}$). The measure of skewness listed herein uses the third moment about the mean and is defined as:

$$\text{Skewness} = \frac{N \sum_{i=1}^N (X_i - \bar{X})^3}{(N-1)(N-2) S^3}$$

For High Bridge,

$$\text{Skewness} = \frac{(48) [(28.000-29.208)^3 + (31.000-29.208)^3 + \dots + (13.000-29.208)^3]}{(48-1)(48-2)(8.985)^3}$$

$$= 0.819$$

Standard Error of Skewness (SE OF SKEW).--The standard error of skewness is the standard deviation of a distribution of skewness coefficients that are computed for samples from the same population and of the same size as the sample from which the skewness coefficient was computed. The standard error of the skewness depends only on the sample size (the number of discharge values tabulated) and is given by the formula:

$$\text{SE OF SKEW} = \left[\frac{6(N)(N-1)}{(N-2)(N+1)(N+3)} \right]^{1/2}$$

For our example:

$$\text{SE OF SKEW} = \left[\frac{6(48)(48-1)}{(48-2)(48+1)(48+3)} \right]^{1/2} \\ = 0.343$$

Since the skewness for the High Bridge data is 0.819 and the standard error of the skewness is 0.343 there is about a 68-percent chance that if another sample of equal size was taken from the same population the skewness would fall between 0.819 ± 0.343 .

Serial Correlation Coefficient (SER CORR).--The serial correlation coefficient measures the degree of relationship between a given value and its preceding value. As used in this report it measures the relationship between discharges given for each time period and those given for the previous time period. The formula used in tables 2a and 3a is:

$$\text{SER CORR} = \frac{(N-1) \sum_{i=1}^{N-1} X_i X_{i+1} - \sum_{i=1}^{N-1} X_i \sum_{i=1}^{N-1} X_{i+1}}{\left[\left[(N-1) \left(\sum_{i=1}^{N-1} X_i^2 \right) - \left(\sum_{i=1}^{N-1} X_i \right)^2 \right] \left[(N-1) \left(\sum_{i=1}^{N-1} X_{i+1}^2 \right) - \left(\sum_{i=1}^{N-1} X_{i+1} \right)^2 \right] \right]^{1/2}}$$

and for High Bridge

$$\begin{aligned} \text{SER CORR} &= \frac{(47) (41168) - (1389) (1374)}{\left[[(47) (44575) - (1389)^2] [(47) (43960) - (1374)^2] \right]^{1/2}} \\ &= 0.154 \end{aligned}$$

In table 4, the serial correlation coefficient correlates the given month (y) with the proceeding month (X) using the following formula:

$$\text{SER CORR} = \frac{N \sum_{i=1}^N X_i Y_i - \sum_{i=1}^N X_i \sum_{i=1}^N Y_i}{\left[\left[N \sum_{i=1}^N X_i^2 - \left(\sum_{i=1}^N X_i \right)^2 \right] \left[N \sum_{i=1}^N Y_i^2 - \left(\sum_{i=1}^N Y_i \right)^2 \right] \right]^{1/2}}$$

For High Bridge, the coefficient correlating the November (y) monthly mean discharges with the October (X) monthly mean discharge is:

$$\text{SER CORR} = \frac{49 (431513.80) - (3253.7) (4948.0)}{\left[[49 (327296.88) - (3253.7)^2] [49 (714437.08) - (4948.0)^2] \right]^{1/2}}$$

$$= .666$$

The October and November monthly mean discharges used in this calculation are not given in this report, but can be found in U.S. Geological Survey surface-water reports and compilation reports. The period of record used was the 1919 to 1967 water years.

Coefficient of Variation (C OF VAR).--The coefficient of variation is a relative measure of dispersion about the mean (as opposed to the standard deviation which is an absolute measure) which enables us to compare variances of different means or different units. It is defined as:

$$\text{C OF VAR} = \frac{\text{Standard Deviation (S)}}{\text{Mean } (\bar{X})}$$

and in our example,

$$\text{C OF VAR} = \frac{8.985}{29.208} = 0.308$$

Percent of Mean Yearly Volume (PCT MEAN YR VOL).--The percent of the mean yearly volume for a given month is the average percentage of the total annual flow that has occurred in that month during the entire period of record. The computer was programmed to calculate this statistic for a given month by the following equation:

$$\text{PCT MEAN YR VOL} = \frac{\bar{X}_i}{\sum \bar{X}_i}$$

where $\bar{X}_i$ is the mean monthly value for the given month. The above equation is not the most exact method of computing this statistic but for most cases it is considered adequate.

For High Bridge the percent of the mean yearly volume that has occurred during October for the period of record (see table 4) is:

$$\text{PCT MEAN YR VOL} = \frac{66.39}{(66.39 + 101.0 + \dots + 65.95)}$$

$$= 0.04850 \text{ or } 4.850\%$$

Statistical terms in logarithmic form.--Since, for some studies, it is simpler to manipulate logarithms of numbers rather than the numbers themselves, each of the preceding parameters are also listed for the logs of the discharges. The calculations are performed in the same manner as previously illustrated except that the logs of each discharge value is now used instead of the value itself. The mean of the logs will be used to illustrate.

$$\text{Mean of the logs} = \frac{\sum_{i=1}^N (\log X_i)}{N}$$

For High Bridge,

$$\begin{aligned} \text{Mean of the logs} &= \frac{[\log 2.8000 + \log 31.000 + \dots + \log 13.000]}{48} \\ &= \frac{[1.4472 + 1.4914 + \dots + 1.1139]}{48} \\ &= 1.446 \end{aligned}$$

ANALYZED STREAMFLOW RECORDS

1-3680.00 WALLKILL RIVER NEAR UNIONVILLE, N. Y.

Location.--Lat 41°15'35", long 74°32'55", on downstream side of highway bridge on the Quarryville-Milton road.

Drainage area.--140 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1938												5	13	18	7	27	30	26	41	41	23	23	21	25	20	18	11	6	3	2	2		2	1		100232.0
1939							1	10	39	16	18	11	10	10	6	6	18	27	31	24	15	21	25	24	27	16	4	2	2	2					91160.0	
1940							3	7	23	26	22	27	30	32	29	17	17	22	22	17	10	14	10	12	11	5	3									73010.0
1941			1	3	7	9	7	13	14	12	32	24	21	24	7	7	30	25	34	19	19	15	15	13	7	6	1									66745.0
1942					2	14	6	16	17	11	12	8	27	29	39	29	30	31	17	13	11	11	15	9	10	5	2	1								64017.0
1943			4	1	3	10	18	16	9	10	9	6	7	7	7	16	34	60	31	25	27	17	14	8	6	9	6			2	3					85210.6
1944				2	6	28	14	13	22	24	26	26	20	14	15	16	21	18	15	20	15	13	14	11	5	4	2	2								52240.0
1945							5	27	6	6	3	1	3				25	20	30	48	30	20	34	22	34	13	5	4	5	2	1	1				110850.0
1946							8	17	15	12	21	21	32	34	26	35	33	23	12	23	13	14	15	16	6	4	3	1								70234.0
1947						1	1	7	13	16	62	27	17	16	25	21	23	22	20	21	21	14	13	9	7	4			1	3	1					68038.0
1948							1	34	23	9	13	5	23	45	25	25	24	23	13	27	16	17	14	12	7	3	5	1	1							85585.0
1949							2	17	51	34	21	21	18	19	19	13	22	20	19	23	20	18	11	5	3	3		3			1		1	1		64703.0
1950							2	23	24	33	15	22	20	21	24	36	28	36	16	14	21	12	6	6	5	1										63136.0
1951										10	19	36	15	36	25	21	18	16	21	14	25	27	26	26	13	9	5	1	1	1						97386.0
1952										3	10	15	12	24	18	26	30	29	23	31	25	37	27	22	16	9	4	3	2							133593.0
1953							4	23	15	21	11	10	13	35	20	13	3	19	8	18	30	39	19	16	19	13	10	3	1	2						87739.0
1954						1	9	29	19	21	19	14	15	21	20	27	23	33	19	27	14	20	4	11	5	11	2	1								54554.0
1955			1	4	7	5	8	3	8	21	39	16	14	26	22	17	35	28	25	13	20	14	13	5	7	3	6			1	1		1		2	78983.5
1956											6	11	32	28	33	22	26	21	20	21	42	28	16	18	21	8	7	2	1	1	1	2				110379.0
1957					11	9	27	14	14	13	15	12	9	21	28	26	18	21	34	17	24	15	8	7	9	4	4	2	2	1					58068.2	
1958						6	12	16	16	25	23	23	26	14	15	16	25	15	12	11	17	13	18	10	19	16	9	7	1						94360.0	
1959						3	2	6	9	26	20	26	35	23	35	25	23	18	19	23	28	14	12	12	3	3									59964.0	
1960										3	3	10	16	14	20	28	48	52	34	26	27	19	17	16	3	7	7	9	6	1					108872.0	
1961										2	11	21	11	13	22	51	52	40	21	13	16	12	16	17	16	12	10	2	2	2	1	2				90345.0
1962							24	21	19	31	30	20	21	19	32	25	18	21	16	10	10	9	12	9	6	3	3	2	2						50256.0	
1963					8	10	5	13	22	18	17	15	16	27	24	40	43	31	22	8	7	6	9	6	4	4	8	2							48829.6	
1964						1	15	12	22	10	9	13	11	9	21	19	23	19	18	19	26	17	14	18	15	9	8	6	2	1					53601.0	
1965					3	3	16	19	54	24	30	12	28	18	15	15	14	15	20	41	19	7	2	2	2	2		1	1	2					27850.6	
1966					15	20	11	11	9	15	23	14	14	16	22	41	12	20	13	17	21	18	16	9	7	7	2	3	6	1					37077.4	
1967							1	8	2	7	8	13	23	31	44	31	26	36	32	23	20	19	12	13	4	7	5								75850.0	

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	10957	100.0	9	23.00	420	9891	90.3	18	150.0	802	4502	41.1	27	1000	95	214	1.9
1	4.20	15	10957	100.0	10	28.00	474	9471	86.4	19	190.0	642	3700	33.8	28	1200	62	119	1.0
2	5.20	24	10942	99.9	11	35.00	527	8997	82.1	20	230.0	517	3058	27.9	29	1500	33	57	.5
3	6.40	35	10918	99.6	12	43.00	524	8470	77.3	21	280.0	594	2541	23.2	30	1900	11	24	.2
4	7.90	68	10883	99.3	13	53.00	566	7946	72.5	22	350.0	473	1947	17.8	31	2300	7	13	.1
5	9.30	95	10815	98.7	14	65.00	636	7380	67.4	23	430.0	434	1474	13.5	32	2900	3	6	.0
6	12.00	242	10720	97.8	15	80.00	749	6744	61.5	24	530.0	378	1040	9.5	33	3600	1	3	.0
7	15.00	246	10478	95.6	16	99.00	848	5995	54.7	25	660.0	265	662	6.0	34	4400	2	2	.0
8	18.00	341	10232	93.4	17	120.00	845	5347	48.8	26	820.0	183	397	3.6					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

WALKILL RIVER NEAR UNIONVILLE, N. Y.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1938	31.0 24	32.0 24	33.6 23	40.6 23	57.2 25	109.0 28	177.0 28	232.0 28	285.0 29	330.0 28
1939	14.0 15	15.3 14	16.3 14	16.8 13	19.5 13	23.6 12	25.3 10	28.7 10	48.5 12	149.0 10
1940	22.0 20	23.0 20	26.7 21	27.2 21	38.0 21	68.5 22	109.0 26	109.0 23	144.0 23	262.0 22
1941	7.0 4	8.7 7	9.3 8	10.4 7	12.9 7	15.0 5	20.7 7	24.0 6	34.9 5	126.0 4
1942	30.0 23	31.9 23	49.3 27	62.4 27	83.5 27	91.6 26	98.6 23	123.0 25	183.0 24	276.0 25
1943	7.0 5	7.1 4	8.1 4	10.2 4	12.6 4	15.5 6	18.9 6	28.7 11	74.7 17	139.0 8
1944	12.0 11	12.0 9	12.3 9	12.6 9	13.7 8	21.6 9	26.6 11	27.5 9	43.2 9	196.0 15
1945	72.0 29	73.3 29	76.1 29	82.8 29	103.0 29	163.0 29	220.0 29	254.0 29	262.0 28	312.0 26
1946	13.0 14	17.3 16	21.0 17	24.4 18	26.9 17	32.0 16	34.2 14	33.5 13	43.5 10	122.0 3
1947	23.0 21	23.7 21	25.0 20	26.2 19	28.0 18	40.6 19	67.1 21	88.0 22	116.0 19	258.0 20
1948	21.0 13	22.0 18	23.3 18	23.5 17	25.5 16	26.0 13	37.0 16	44.2 15	64.8 14	229.0 18
1949	17.0 17	17.7 17	19.9 16	20.8 16	24.7 14	26.0 14	29.4 12	31.2 12	36.5 6	138.0 7
1950	29.0 22	29.3 22	30.7 22	34.1 22	38.2 22	53.0 21	58.4 19	64.0 20	116.0 20	258.0 21
1951	38.0 27	38.3 27	42.0 24	42.9 24	54.0 23	70.7 23	101.0 24	136.0 26	129.0 22	269.0 23
1952	47.0 28	50.7 28	53.9 28	55.7 25	56.6 24	76.8 24	174.0 27	174.0 27	205.0 25	353.0 29
1953	12.0 12	12.7 12	14.0 12	15.0 11	16.2 10	17.1 8	23.9 9	27.1 7	44.0 11	170.0 12
1954	11.0 9	12.0 10	13.9 11	15.6 12	18.4 11	23.0 11	30.9 13	36.8 14	59.6 13	166.0 11
1955	7.7 6	8.0 5	8.9 6	10.7 8	14.7 9	32.5 17	36.0 15	59.3 18	209.0 26	274.0 24
1956	37.0 26	38.0 26	42.3 25	57.6 26	61.5 26	77.5 25	76.1 22	85.3 21	121.0 21	236.0 19
1957	8.2 7	8.5 6	8.7 5	10.2 5	11.3 3	13.9 4	16.0 4	19.4 4	28.1 3	203.0 16
1958	16.0 16	16.0 15	16.7 15	17.6 14	25.3 15	31.9 15	40.0 17	50.4 16	94.5 18	217.0 17
1959	13.0 13	13.7 13	15.9 13	19.5 15	30.8 20	47.9 20	58.4 20	61.3 19	71.5 16	181.0 13
1960	37.0 25	35.3 25	45.0 26	72.4 28	85.7 28	95.7 27	102.0 25	115.0 24	238.0 27	324.0 27
1961	22.0 19	22.7 19	24.1 19	26.6 20	29.3 19	34.2 18	44.9 18	56.2 17	66.9 15	196.0 14
1962	12.0 10	12.7 11	13.4 10	14.8 10	19.4 12	22.0 10	22.4 8	27.1 8	39.2 8	141.0 9
1963	8.6 8	9.0 8	9.1 7	9.6 3	12.8 5	16.3 7	16.5 5	20.9 5	37.9 7	131.0 5
1964	6.2 3	6.4 3	6.8 2	7.1 2	8.0 2	10.4 2	12.6 2	13.7 1	22.1 2	101.0 2
1965	5.4 2	5.9 2	6.9 3	10.3 6	12.4 5	13.9 3	14.9 3	16.2 3	21.7 1	50.5 1
1966	4.2 1	4.2 1	4.5 1	5.3 1	6.1 1	8.7 1	10.1 1	16.1 2	33.8 4	138.0 6

1-3680.00 WALKILL RIVER NEAR UNIONVILLE, N. Y.

LOWEST MEAN DISCHARGE, IN CFS, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	14	30	60	90	120	183	ANNUAL
MEAN	19.948	20.938	23.369	27.014	32.645	44.065	58.686	69.055	99.014	206.617
VARIANCE	226.708	239.353	294.979	436.185	641.379	1331.582	2962.007	4018.562	5988.996	5452.504
STD DEV	15.057	15.471	17.175	20.885	25.325	36.491	54.424	63.392	77.389	73.841
SKWENESS	1.738	1.674	1.371	1.333	1.396	1.598	1.647	1.677	1.099	.337
SE OF SKEW	.434	.434	.434	.434	.434	.434	.434	.434	.434	.434
SER CORR	-.033	-.004	-.052	-.116	-.144	-.142	-.113	-.133	-.196	-.046
C OF VAR	.755	.739	.735	.773	.776	.828	.927	.918	.782	.357

LOGS

MEAN OF	1.195	1.219	1.262	1.319	1.401	1.518	1.615	1.690	1.872	2.287
VAR OF	.094	.093	.097	.100	.101	.111	.133	.128	.112	.026
STD DEV OF	.307	.304	.312	.316	.317	.334	.365	.358	.335	.161
SKEW OF	.149	.085	.076	.252	.210	.282	.367	.407	.217	-.150
SE OF SKEW OF	.434	.434	.434	.434	.434	.434	.434	.434	.434	.434
SER CORR OF	.130	.181	.133	.056	.017	.025	.057	.025	-.020	.061
C OF VAR OF	.257	.250	.247	.240	.226	.220	.226	.212	.179	.070

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	3.278	3.387	3.583	4.391	5.155	6.471	7.330	9.232	13.977	78.628
20.00	5.060	5.316	5.704	6.646	7.919	9.924	11.348	13.977	21.956	103.780
10.00	6.418	6.785	7.333	8.381	10.047	12.626	14.582	17.771	28.214	119.893
5.00	8.612	9.150	9.972	11.213	13.523	17.108	20.094	24.211	38.590	142.311
2.00	15.400	16.385	18.131	20.210	24.527	31.775	39.149	46.354	72.355	195.547
1.25	28.228	29.757	33.393	38.032	46.127	62.118	82.034	96.057	141.115	265.209
1.11	39.138	40.879	46.192	53.866	65.123	90.047	124.428	145.244	203.318	309.406
1.04	55.882	57.603	65.545	79.142	95.140	135.965	198.574	231.518	303.843	363.285
1.02	70.637	72.061	82.350	102.237	122.302	179.029	272.063	317.338	396.571	402.142
1.01	87.459	88.281	101.266	129.373	153.947	230.697	364.316	425.462	506.249	440.022

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WALKILL RIVER NEAR UNIONVILLE, N. Y.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	2970.0 3	2620.0 3	1890.0 2	1090.0 4	567.0 19	397.0 21	410.0 15	354.0 16	303.0 16	275.0 5
1939	1890.0 12	1540.0 13	1260.0 10	858.0 13	593.0 17	544.0 9	525.0 5	458.0 7	422.0 5	250.0 8
1940	1450.0 18	1220.0 19	1060.0 17	923.0 11	830.0 3	627.0 5	505.0 7	418.0 10	316.0 12	199.0 15
1941	1040.0 29	973.0 27	760.0 28	517.0 28	440.0 26	389.0 23	322.0 24	335.0 17	313.0 13	181.0 19
1942	1300.0 21	1170.0 21	949.0 20	676.0 20	529.0 21	366.0 26	308.0 26	260.0 26	240.0 27	174.0 27
1943	1850.0 13	1550.0 14	1180.0 13	850.0 15	531.0 20	477.0 15	416.0 14	429.0 9	369.0 9	233.0 12
1944	1240.0 24	1080.0 24	791.0 27	586.0 26	492.0 24	476.0 16	387.0 17	370.0 27	254.0 22	159.0 23
1945	2600.0 5	2100.0 6	1450.0 6	1090.0 5	801.0 5	530.0 10	468.0 10	414.0 11	430.0 3	304.0 2
1946	1250.0 23	1130.0 23	898.0 22	636.0 23	468.0 25	435.0 19	339.0 22	327.0 20	269.0 20	194.0 16
1947	2000.0 8	1620.0 12	1040.0 18	671.0 21	624.0 14	508.0 12	464.0 12	390.0 13	312.0 14	186.0 17
1948	1900.0 10	1640.0 9	1380.0 8	999.0 8	714.0 8	648.0 3	548.0 4	470.0 5	360.0 10	234.0 11
1949	3600.0 2	2900.0 2	1810.0 4	1290.0 3	814.0 4	592.0 6	466.0 11	401.0 12	310.0 15	177.0 19
1950	1120.0 25	945.0 28	800.0 26	632.0 24	602.0 16	426.0 20	358.0 18	332.0 18	274.0 19	173.0 21
1951	1920.0 11	1620.0 10	1100.0 16	938.0 10	656.0 12	517.0 11	502.0 8	482.0 4	416.0 6	267.0 6
1952	2000.0 9	1830.0 7	1300.0 9	918.0 12	753.0 7	645.0 4	628.0 3	522.0 3	502.0 1	365.0 1
1953	1660.0 15	1540.0 15	1140.0 15	792.0 17	573.0 18	502.0 13	501.0 9	462.0 6	426.0 4	240.0 10
1954	1100.0 26	863.0 29	758.0 29	647.0 22	597.0 28	267.0 29	282.0 29	260.0 27	253.0 23	149.0 25
1955	5240.0 1	4220.0 1	2640.0 1	1650.0 1	906.0 2	493.0 14	334.0 23	266.0 25	252.0 24	216.0 13
1956	2510.0 6	2310.0 5	1740.0 5	1060.0 7	710.0 9	568.0 8	514.0 6	449.0 8	384.0 8	302.0 3
1957	1520.0 17	1440.0 17	1160.0 14	770.0 18	504.0 22	380.0 25	348.0 19	331.0 19	276.0 18	159.0 24
1958	1610.0 16	1510.0 16	1190.0 12	942.0 9	794.0 6	703.0 2	634.0 2	569.0 1	465.0 2	259.0 7
1959	902.0 30	800.0 30	509.0 30	452.0 30	383.0 29	339.0 28	314.0 25	279.0 24	244.0 25	164.0 22
1960	2100.0 7	1700.0 8	1440.0 7	1070.0 6	672.0 11	569.0 7	418.0 13	389.0 14	355.0 11	297.0 4
1961	2640.0 4	2350.0 4	1840.0 3	1350.0 2	991.0 1	777.0 1	656.0 1	541.0 2	390.0 7	248.0 2
1962	1750.0 14	1620.0 11	1220.0 11	821.0 16	605.0 15	455.0 18	341.0 21	318.0 23	243.0 26	136.0 27
1963	1050.0 28	1010.0 26	941.0 21	852.0 14	652.0 13	395.0 22	296.0 27	250.0 28	220.0 28	134.0 29
1964	1300.0 22	1160.0 22	840.0 23	601.0 25	412.0 27	386.0 24	344.0 20	326.0 21	257.0 21	146.0 26
1965	1380.0 20	1270.0 18	825.0 24	502.0 29	337.0 30	242.0 30	206.0 30	172.0 30	135.0 30	76.3 30
1966	1400.0 19	1190.0 20	814.0 25	537.0 27	500.0 23	340.0 27	282.0 28	234.0 29	182.0 29	102.0 29
1967	1070.0 27	1070.0 25	998.0 19	737.0 19	689.0 10	475.0 17	405.0 16	370.0 15	298.0 17	203.0 14

1-3680.00 WALKILL RIVER NEAR UNIONVILLE, N.Y.

HIGHEST MEAN DISCHARGE, IN CFS, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	1845.333	1600.366	1194.133	848.567	617.967	482.933	417.366	370.933	315.767	207.010
VARIANCE	812043.562	515310.437	195241.875	75170.437	26207.035	15746.387	12990.980	9489.215	7491.273	4300.039
STD DEV	901.135	717.851	441.862	274.172	161.886	125.485	113.978	97.413	86.552	65.575
SKWENESS	2.173	1.975	1.394	.961	.338	.282	.443	.131	.250	.311
SE OF SKEW	.427	.427	.427	.427	.427	.427	.427	.427	.427	.427
SER CORR	-.012	-.005	.088	.038	-.086	.061	.094	.092	.149	.208
C OF VAR	.488	.449	.370	.323	.262	.260	.273	.263	.274	.317

LOGS

MEAN OF	3.228	3.171	3.051	2.908	2.776	2.669	2.605	2.554	2.483	2.293
VAR OF	.031	.027	.022	.018	.014	.014	.014	.015	.016	.022
STD DEV OF	.175	.165	.149	.136	.116	.118	.120	.121	.126	.148
SKEW OF	.839	.750	.258	.164	-.219	-.432	-.150	-.519	-.559	-.651
SE OF SKEW OF	.427	.427	.427	.427	.427	.427	.427	.427	.427	.427
SER CORR OF	-.027	-.052	.024	.038	-.047	.097	.158	.156	.220	.306
C OF VAR OF	.054	.052	.049	.047	.042	.044	.046	.047	.051	.065

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	851.197	755.375	540.155	406.602	306.779	228.524	205.252	169.199	138.061	75.879
1.05	972.103	867.548	656.503	491.589	378.248	289.981	252.510	218.466	181.149	106.043
1.11	1060.578	947.497	732.284	545.623	421.281	326.605	281.239	247.850	207.016	124.776
1.25	1198.340	1069.557	840.030	620.882	478.283	374.446	319.637	286.148	240.842	149.794
2.00	1599.782	1413.971	1109.399	802.232	603.175	475.884	405.233	366.634	312.087	203.752
5.00	2311.966	1999.123	1496.062	1049.104	750.229	588.354	508.774	454.069	389.299	263.061
10.00	2899.221	2464.995	1764.119	1212.968	836.321	650.471	570.838	501.297	430.765	294.855
25.00	3791.079	3152.058	2116.920	1421.302	935.276	718.429	643.543	551.945	474.948	328.440
50.00	4577.059	3741.698	2390.190	1577.806	1003.161	762.936	694.283	584.480	503.136	349.618
100.00	5478.828	4403.672	2672.580	1735.673	1066.882	803.177	742.563	613.428	528.067	368.134

STATISTICS OF MONTHLY MEANS, 1938-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1938-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	90.74	121.8	3.554	1.342	3.645	.348	1.754	.3918	.7689	.2234	6.888	.692
NOV	181.4	128.6	.6542	.7092	7.285	.527	2.126	.3758	-.4838	.1767	8.349	.657
DEC	221.0	139.6	.4629	.6316	8.876	.362	2.244	.3186	-.3531	.1420	8.812	.484
JAN	236.6	151.8	1.163	.6417	9.502	.510	2.288	.2843	-.0926	.1243	8.985	.665
FEB	276.1	130.0	.5726	.4708	11.09	.222	2.390	.2235	-.4529	.0935	9.385	.294
MAR	434.4	157.9	.3219	.3634	17.45	-.080	2.608	.1690	-.4399	.0648	10.24	-.206
APR	368.9	187.5	.3721	.5084	14.82	.220	2.506	.2420	-.2490	.0966	9.842	.240
MAY	213.1	125.0	.7999	.5869	8.558	.465	2.254	.2628	-.0532	.1166	8.853	.405
JUN	118.9	89.50	1.905	.7530	4.774	.560	1.976	.2930	.2807	.1483	7.761	.604
JUL	106.8	130.2	2.691	1.219	4.290	.461	1.812	.4341	.2174	.2396	7.114	.774
AUG	132.0	185.1	2.415	1.403	5.301	.275	1.798	.5259	.5011	.2926	7.059	.621
SEP	109.9	162.9	2.299	1.482	4.413	.515	1.709	.5156	.7110	.3018	6.710	.788

1-3770.00 HACKENSACK RIVER AT RIVERVALE, N. J.

LOWEST MEAN DISCHARGE, IN CFS, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	14	30	60	90	120	183	ANNUAL
MEAN	13.804	14.216	15.412	17.600	21.316	28.112	33.648	39.660	50.368	90.092
VARIANCE	42.899	44.209	52.033	70.657	109.146	184.801	217.800	266.447	389.538	762.494
STD DEV	6.550	6.649	7.213	8.406	10.447	13.594	14.758	16.323	19.737	27.613
SKEWNESS	1.362	1.393	1.555	1.387	1.150	.727	.640	1.056	.909	.419
SE OF SKEW	.464	.464	.464	.464	.464	.464	.464	.464	.464	.464
SER CORR	.185	.188	.177	.237	.335	.217	.167	.090	-.064	.253
C OF VAR	.474	.468	.468	.478	.490	.484	.439	.412	.392	.307

LOGS

MEAN OF	1.097	1.111	1.147	1.202	1.282	1.397	1.484	1.563	1.669	1.934
VAR OF	.039	.038	.037	.038	.042	.050	.041	.033	.032	.020
STD DEV OF	.197	.194	.191	.196	.204	.224	.203	.181	.178	.140
SKEW OF	.131	.118	.140	.187	.163	-.327	-.372	-.279	-.563	-.464
SE OF SKEW OF	.464	.464	.464	.464	.464	.464	.464	.464	.464	.464
SER CORR OF	.277	.277	.239	.309	.332	.228	.199	.139	-.045	.303
C OF VAR OF	.179	.174	.167	.163	.159	.160	.137	.116	.107	.072

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	4.555	4.752	5.270	5.945	6.788	6.665	9.078	12.714	15.210	36.473
20.00	6.039	6.292	6.921	7.784	9.037	10.225	13.512	17.828	22.388	48.650
10.00	7.044	7.331	8.034	9.033	10.576	12.700	16.508	21.182	27.069	56.145
5.00	8.517	8.848	9.657	10.869	12.850	16.341	20.811	25.914	33.568	66.157
2.00	12.377	12.798	13.883	15.717	18.907	25.658	31.390	37.299	48.507	88.068
1.25	18.240	18.744	20.248	23.184	28.325	38.716	45.446	52.229	66.378	113.182
1.11	22.465	22.996	24.809	28.637	35.246	47.274	54.282	61.618	76.616	127.327
1.04	28.175	28.707	30.948	36.096	44.750	57.839	64.853	72.918	87.975	142.967
1.02	32.692	33.200	35.789	42.061	52.373	65.490	72.306	80.953	95.450	153.284
1.01	37.430	37.893	40.855	48.376	60.460	72.941	79.416	88.683	102.204	162.651

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

HACKENSACK RIVER AT RIVERVALE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	515.0 18	466.0 15	358.0 17	286.0 15	274.0 12	162.0 19	139.0 19	120.0 19	122.0 18	78.4 14
1943	776.0 7	659.0 7	486.0 8	292.0 14	212.0 16	179.0 14	182.0 10	167.0 10	146.0 8	87.7 11
1944	595.0 14	559.0 13	382.0 15	326.0 10	250.0 10	239.0 8	196.0 9	163.0 11	145.0 9	85.4 13
1945	1110.0 3	997.0 3	950.0 1	649.0 1	604.0 2	240.0 7	207.0 8	195.0 6	191.0 3	137.0 2
1946	605.0 13	533.0 14	403.0 14	310.0 13	241.0 11	184.0 11	148.0 15	144.0 14	139.0 12	117.0 5
1947	496.0 20	429.0 20	309.0 20	243.0 20	204.0 18	179.0 12	178.0 11	169.0 9	139.0 11	91.6 14
1948	541.0 16	507.0 15	405.0 13	319.0 11	284.0 8	236.0 9	212.0 6	194.0 7	159.0 6	105.0 8
1949	709.0 8	647.0 9	477.0 11	369.0 8	263.0 9	207.0 10	174.0 12	162.0 12	179.0 15	74.4 17
1950	290.0 25	281.0 24	232.0 23	173.0 23	138.0 24	110.0 24	98.0 24	92.0 23	84.4 22	55.3 24
1951	1330.0 2	1250.0 2	888.0 3	533.0 3	357.0 4	285.0 2	238.0 4	208.0 4	177.0 5	112.0 6
1952	972.0 5	882.0 5	656.0 5	452.0 5	305.0 7	275.0 5	267.0 2	230.0 3	210.0 1	154.0 1
1953	1000.0 4	972.0 4	759.0 4	584.0 2	451.0 1	332.0 1	270.0 1	253.0 1	217.0 2	123.0 3
1954	511.0 19	457.0 17	370.0 16	258.0 14	181.0 21	127.0 21	122.0 20	108.0 20	95.1 20	70.3 21
1955	671.0 10	626.0 10	478.0 10	376.0 4	216.0 15	170.0 15	141.0 17	137.0 16	130.0 13	90.8 10
1956	1440.0 1	1330.0 1	993.0 2	515.0 4	399.0 3	283.0 4	207.0 7	173.0 8	145.0 10	94.3 12
1957	650.0 11	601.0 11	481.0 9	316.0 12	209.0 17	167.0 16	144.0 16	124.0 17	106.0 17	71.3 20
1958	826.0 6	739.0 6	579.0 6	361.0 9	325.0 5	284.0 3	259.0 3	239.0 2	195.0 4	117.0 4
1959	382.0 23	323.0 23	216.0 25	164.0 24	142.0 23	121.0 22	107.0 21	94.0 22	79.3 24	60.1 23
1960	534.0 17	455.0 13	311.0 19	230.0 21	193.0 20	164.0 18	158.0 13	149.0 13	129.0 14	100.0 8
1961	693.0 9	656.0 8	492.0 7	372.0 7	316.0 6	267.0 6	231.0 5	196.0 5	155.0 7	108.0 7
1962	639.0 12	599.0 12	411.0 12	263.0 17	220.0 13	179.0 13	140.0 18	120.0 19	96.9 19	73.6 19
1963	392.0 22	378.0 21	331.0 18	272.0 16	203.0 19	135.0 20	106.0 22	91.4 24	80.8 23	63.5 22
1964	243.0 25	202.0 25	230.0 24	213.0 22	166.0 22	118.0 23	101.0 23	100.0 21	86.0 21	77.4 19
1965	553.0 15	435.0 13	247.0 22	138.0 25	97.3 25	67.4 26	57.6 26	51.9 26	47.3 26	41.9 26
1966	400.0 21	257.0 25	158.0 26	90.8 26	88.0 26	76.7 25	68.8 25	62.7 25	56.6 25	40.3 25
1967	381.0 24	338.0 22	306.0 21	247.0 19	220.0 14	165.0 17	152.0 14	142.0 15	127.0 16	76.4 16
MEAN	665.115	602.500	454.500	321.223	242.627	190.427	165.669	149.423	129.508	90.073
VARIANCE	88387.937	80522.750	47308.078	18501.445	8427.297	4870.867	3561.777	2801.725	2061.645	737.056
STD DEV	297.301	283.765	217.504	136.020	91.800	69.792	59.681	52.931	45.405	27.149
SKEWNESS	1.168	1.159	1.042	.753	.553	.205	.158	.138	.227	.357
SE OF SKEW	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR	.078	.136	.149	.219	.074	.183	.258	.224	.327	.315
C OF VAR	.447	.471	.479	.423	.378	.367	.360	.354	.351	.301

LOGS

MEAN OF	2.785	2.738	2.613	2.468	2.353	2.248	2.188	2.145	2.084	1.935
VAR OF	.034	.038	.040	.038	.030	.031	.030	.030	.028	.019
STD DEV OF	.184	.194	.201	.195	.174	.176	.174	.172	.167	.137
SKEW OF	.201	.209	.100	-.531	-.499	-.638	-.691	-.733	-.647	-.387
SE OF SKEW OF	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR OF	.101	.197	.252	.322	.212	.308	.360	.321	.374	.324
C OF VAR OF	.066	.071	.077	.079	.074	.078	.080	.080	.080	.071

1-3775.00 PASCACK BROOK AT WESTWOOD, N. J.
SUMMARY DURATION TABLE OF DAILY DISCHARGE

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	12053	100.0	9	21.00	865	9755	80.9	18	85.0	437	1553	12.9	27	340	29	82	.6
1	6.10	17	12053	100.0	10	25.00	1024	8890	73.8	19	100.0	348	1116	9.3	28	400	18	53	.4
2	7.10	81	12036	99.9	11	29.00	1260	7866	65.3	20	120.0	217	768	6.4	29	470	17	35	.2
3	8.30	197	11955	99.2	12	34.00	1062	6606	54.8	21	140.0	130	551	4.6	30	550	7	18	.1
4	9.70	189	11758	97.6	13	39.00	1045	5544	46.0	22	160.0	121	421	3.5	31	640	3	11	.0
5	11.00	366	11569	96.0	14	46.00	1002	4499	37.3	23	190.0	69	300	2.5	32	750	4	8	.0
6	13.00	363	11203	92.9	15	54.00	848	3497	29.0	24	220.0	67	231	1.9	33	870	2	4	.0
7	15.00	625	10840	89.9	16	63.00	588	2649	22.0	25	250.0	53	164	1.4	34	1000	2	2	.0
8	18.30	460	10215	84.8	17	73.00	508	2061	17.1	26	290.0	29	111	0.9					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

PASCACK BROOK AT WESTWOOD, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1935	7.2 3	7.4 3	8.1 4	8.3 3	9.3 3	11.8 4	12.3 2	13.5 2	15.3 2	36.8 6
1936	8.5 8	8.6 8	8.8 6	10.0 7	12.0 9	13.9 8	15.0 5	18.5 6	21.2 5	46.2 11
1937	9.3 11	9.6 12	10.5 13	11.0 10	15.5 12	20.2 15	26.0 20	31.7 23	35.4 23	50.9 16
1938	11.4 17	12.5 18	14.8 23	16.4 21	19.3 20	34.3 31	48.3 31	47.7 31	55.4 31	67.2 29
1939	7.5 4	7.6 4	7.9 3	8.2 2	9.3 4	10.4 2	11.0 1	11.5 1	13.2 1	33.3 3
1940	9.5 12	9.5 11	10.0 10	11.9 11	14.4 11	18.9 14	20.0 9	21.2 9	28.0 12	48.9 14
1941	7.9 6	8.3 6	8.5 5	8.8 4	9.1 2	10.3 1	13.5 3	15.2 4	18.0 3	33.0 2
1942	11.3 16	11.6 16	14.4 22	18.0 25	20.3 23	22.2 20	26.7 24	32.3 25	44.5 26	58.1 26
1943	10.3 14	11.5 14	11.9 14	15.4 20	15.9 15	18.1 12	20.2 10	22.8 11	30.4 14	46.6 12
1944	9.9 13	10.0 13	10.1 11	10.9 9	11.5 6	13.0 7	16.8 7	20.0 8	22.3 7	48.5 13
1945	21.0 31	22.0 31	24.6 31	29.0 32	32.1 32	39.9 37	48.6 32	54.4 32	60.8 32	76.6 21
1946	17.9 28	18.7 29	19.7 29	20.6 27	23.6 27	26.8 26	28.2 25	31.9 24	35.0 21	52.5 18
1947	13.3 22	13.3 21	13.5 19	13.8 15	15.8 14	17.4 9	21.9 13	26.8 16	31.2 17	55.5 25
1948	10.8 15	11.6 15	12.1 15	12.5 12	13.6 10	22.0 19	25.2 17	22.9 12	26.8 10	54.0 23
1949	6.1 1	6.1 1	6.3 1	7.2 1	7.5 1	11.9 5	15.8 6	17.8 5	18.9 4	31.4 1
1950	12.1 20	12.4 17	12.7 16	13.1 14	16.2 17	17.5 10	21.8 12	24.2 13	28.9 13	53.2 21
1951	14.3 25	17.0 26	18.0 26	21.2 29	24.5 29	33.3 30	40.0 30	39.1 29	45.0 27	75.6 30
1952	17.3 27	18.1 28	18.4 27	18.8 26	19.8 21	25.1 25	31.7 28	37.7 28	45.1 28	86.4 32
1953	8.9 9	8.9 9	9.2 7	9.4 5	10.4 5	11.4 3	16.9 8	18.9 7	23.1 8	43.6 8
1954	15.0 26	15.0 25	17.0 25	17.9 24	18.1 19	20.9 16	25.3 18	30.6 22	38.5 24	53.2 22
1955	12.0 18	12.7 19	13.1 17	13.9 16	16.0 16	24.4 22	26.0 19	29.9 21	48.3 30	64.3 28
1956	12.0 19	13.0 20	13.3 18	14.6 18	21.2 25	24.4 23	26.3 22	28.6 18	30.7 15	44.5 9
1957	8.9 10	9.1 10	9.6 8	10.7 8	11.6 7	12.9 4	14.2 4	15.0 3	22.2 6	54.9 24
1958	13.0 21	13.7 22	14.0 20	14.9 19	20.6 24	21.4 17	24.0 15	25.5 15	32.8 19	52.5 19
1959	18.0 29	18.0 27	19.6 28	20.8 28	24.1 28	27.6 27	30.4 27	32.5 26	35.0 22	50.0 15
1960	24.0 32	24.0 32	25.0 32	27.0 31	28.0 31	30.8 29	37.9 29	40.0 30	48.2 29	62.9 27
1961	14.0 23	14.3 24	15.9 24	16.9 22	19.8 22	21.9 18	26.2 21	29.1 19	32.9 20	53.0 20
1962	14.0 24	14.0 23	14.0 21	17.1 23	21.4 26	25.0 24	26.7 23	28.3 17	31.7 18	44.6 10
1963	8.5 7	8.6 7	9.7 9	9.8 6	11.8 8	17.8 11	23.5 14	29.1 20	30.7 16	37.1 7
1964	7.8 5	8.0 5	10.4 12	13.9 17	15.6 13	18.2 13	20.3 11	21.5 10	23.2 9	24.2 4
1965	6.4 2	6.6 2	7.1 2	12.5 13	17.7 18	22.4 21	25.0 16	25.0 14	27.6 11	36.5 5
1966	20.0 30	20.0 30	20.4 30	22.9 30	24.8 30	30.1 28	30.0 26	32.9 27	38.6 25	51.9 17
MEAN	12.128	12.553	13.394	14.919	17.212	21.131	24.866	27.378	32.466	51.184
VARIANCE	20.101	21.225	23.870	29.112	35.329	55.659	84.771	92.515	130.771	171.232
STD DEV	4.483	4.607	4.886	5.396	5.944	7.460	9.207	9.618	11.436	13.086
SKWENESS	.930	.787	.782	.847	.444	.519	.977	.768	.588	.745
SE OF SKW	.414	.414	.414	.414	.414	.414	.414	.414	.414	.414
SER CORR	.318	.309	.257	.189	.167	-.022	-.026	.012	-.058	.138
C OF VAR	.370	.367	.365	.362	.345	.353	.370	.351	.352	.256

LOGS

MEAN OF	1.057	1.072	1.100	1.147	1.210	1.298	1.368	1.411	1.485	1.696
VAR OF	.024	.024	.024	.024	.024	.025	.025	.024	.025	.012
STD DEV OF	.154	.156	.155	.154	.156	.158	.158	.155	.158	.109
SKW OF	.251	.141	.111	.102	-.285	-.213	-.045	-.243	-.285	.061
SE OF SKW OF	.414	.414	.414	.414	.414	.414	.414	.414	.414	.414
SER CORR OF	.294	.281	.204	.159	.119	-.045	-.007	.019	-.044	.118
C OF VAR OF	.145	.145	.141	.134	.129	.122	.116	.110	.106	.064

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	5.344	5.317	5.644	6.334	6.510	8.042	9.876	10.540	12.164	27.975
20.00	6.539	6.636	7.073	7.931	8.720	10.678	12.753	13.990	16.335	32.975
10.00	7.321	7.491	7.998	8.961	10.120	12.357	14.600	16.176	18.983	36.030
5.00	8.435	8.701	9.301	10.409	12.043	14.678	17.182	19.183	22.625	40.146
2.00	11.233	11.692	12.505	13.955	16.483	20.113	23.391	26.158	31.055	49.511
1.25	15.277	15.898	16.968	18.868	22.022	27.063	31.722	34.945	41.598	61.280
1.11	18.094	18.759	19.978	22.165	25.383	31.380	37.143	40.333	48.008	68.605
1.04	21.815	22.462	23.847	26.386	29.330	36.549	43.896	46.720	55.545	77.469
1.02	24.706	25.286	26.778	29.574	32.080	40.218	48.869	51.211	60.802	83.845
1.01	27.700	28.167	29.753	32.801	34.688	43.747	53.799	55.500	65.790	90.065

1-3775.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30.

PASSEACK BRUCK AT WESTWOOD, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1935	174.0 33	132.0 33	106.0 32	80.6 31	74.7 29	63.0 29	53.7 30	52.5 28	49.7 28	35.3 30
1936	951.0 3	554.0 4	326.0 6	268.0 4	202.0 3	141.0 6	110.0 8	91.8 9	72.7 11	44.8 19
1937	476.0 16	272.0 20	167.0 22	120.0 22	97.1 22	83.7 20	77.5 20	77.5 17	71.9 13	51.3 16
1938	828.0 5	534.0 5	289.0 8	153.0 13	107.0 18	78.5 23	78.3 18	68.9 21	62.8 20	58.6 11
1939	452.0 19	291.0 17	183.0 19	139.0 16	123.0 13	119.0 9	113.0 6	99.5 7	87.1 6	53.4 14
1940	632.0 10	376.0 11	221.0 12	174.0 11	136.0 9	115.0 10	102.0 9	90.2 10	68.6 18	43.0 22
1941	467.0 17	257.0 22	147.0 27	101.0 28	69.1 30	66.0 26	57.4 28	54.5 27	48.6 30	35.0 31
1942	529.0 11	356.0 14	219.0 13	178.0 10	109.0 17	78.6 22	67.7 23	60.2 24	57.9 23	43.8 21
1943	441.0 21	334.0 16	213.0 14	134.0 18	100.0 21	87.7 18	87.9 14	80.5 14	71.6 14	51.7 15
1944	466.0 18	286.0 18	191.0 17	151.0 14	122.0 14	113.0 11	95.7 12	81.6 13	71.5 15	51.1 17
1945	920.0 4	668.0 2	546.0 1	340.0 1	217.0 2	133.0 7	112.0 7	106.0 6	99.7 4	71.1 3
1946	522.0 12	371.0 12	229.0 11	172.0 12	135.0 10	91.9 16	83.3 16	76.3 18	73.6 10	63.6 7
1947	353.0 25	233.0 25	156.0 23	113.0 24	104.0 20	95.4 14	92.0 13	87.7 11	72.3 12	50.9 18
1948	300.0 28	240.0 24	183.0 20	143.0 15	131.0 11	107.0 12	102.0 10	95.5 8	78.0 9	54.2 13
1949	334.0 26	218.0 27	150.0 25	111.0 25	95.0 23	83.7 19	74.8 21	73.9 19	62.2 21	44.6 20
1950	186.0 32	152.0 32	113.0 30	81.3 30	60.5 32	49.5 32	47.8 32	45.4 32	39.1 32	28.6 32
1951	1110.0 1	684.0 1	459.0 2	284.0 3	194.0 4	147.0 3	125.0 5	111.0 4	95.3 5	66.1 5
1952	709.0 7	530.0 6	328.0 5	231.0 5	162.0 6	148.0 2	140.0 2	124.0 3	119.0 1	88.6 1
1953	635.0 8	516.0 7	384.0 3	313.0 2	247.0 1	193.0 1	154.0 1	141.0 1	118.0 2	74.4 2
1954	376.0 23	261.0 21	151.0 24	109.0 26	84.9 27	63.0 30	58.0 27	49.5 30	45.6 31	35.6 29
1955	787.0 6	499.0 8	318.0 7	221.0 6	131.0 12	81.4 21	70.2 22	67.6 22	63.3 19	54.8 12
1956	1070.0 2	609.0 3	342.0 4	211.0 7	163.0 5	127.0 8	97.3 11	82.5 12	82.1 8	64.0 6
1957	380.0 22	252.0 23	187.0 18	125.0 21	89.0 24	74.9 24	63.5 25	56.4 26	51.0 25	38.2 28
1958	645.0 9	403.0 9	265.0 9	180.0 8	180.0 7	146.0 4	136.0 3	128.0 2	108.0 3	68.8 4
1959	240.0 31	155.0 30	107.0 31	75.7 32	67.0 31	57.1 31	51.6 31	47.9 31	48.9 29	41.1 26
1960	514.0 13	377.0 10	193.0 16	129.0 20	105.0 19	87.8 17	79.8 17	78.2 15	71.4 16	62.4 8
1961	503.0 14	337.0 15	245.0 10	175.0 9	159.0 8	146.0 5	128.0 4	108.0 5	85.2 7	67.2 3
1962	482.0 15	357.0 13	203.0 15	137.0 17	117.0 15	97.1 13	77.8 19	71.6 20	58.7 22	42.7 24
1963	280.0 29	218.0 28	148.0 26	114.0 23	86.7 26	64.8 28	55.9 29	51.1 29	50.1 26	41.6 25
1964	258.0 30	201.0 29	132.0 29	108.0 27	88.3 25	72.2 25	64.3 24	62.0 23	53.5 24	40.7 27
1965	317.0 27	153.0 31	90.1 33	55.5 33	45.0 33	38.4 33	37.4 33	34.5 33	31.4 33	27.6 33
1966	361.0 24	225.0 26	146.0 28	96.9 29	84.6 28	65.2 27	60.5 26	58.1 25	49.8 27	42.9 23
1967	443.0 20	278.0 19	179.0 21	133.0 19	116.0 16	93.1 15	86.2 15	77.7 16	69.9 17	59.1 10
MEAN	518.545	342.091	221.548	156.364	120.664	97.212	86.079	78.518	69.348	51.206
VARIANCE	58304.469	23037.930	10833.527	4742.547	2178.619	1237.909	850.527	652.414	457.914	192.316
STD DEV	241.463	151.783	104.084	68.866	46.676	35.184	29.164	25.542	21.399	13.868
SKENNESS	.863	.772	1.393	1.120	.925	.717	.559	.598	.693	.532
SE OF SKEW	.409	.409	.409	.409	.409	.409	.409	.409	.409	.409
SER CORR	-.018	.015	.048	.049	-.023	.035	.083	.056	.151	.232
C OF VAR	.466	.444	.470	.440	.387	.362	.339	.325	.309	.271

LOGS

MEAN OF	2.670	2.493	2.305	2.157	2.051	1.960	1.911	1.873	1.821	1.694
VAR OF	.041	.037	.035	.033	.027	.025	.022	.020	.018	.014
STD DEV OF	.204	.192	.187	.182	.166	.158	.149	.143	.134	.119
SKEW OF	-.112	-.006	.358	.128	-.058	-.112	-.108	-.143	-.106	-.137
SE OF SKEW OF	.409	.409	.409	.409	.409	.409	.409	.409	.409	.409
SER CORR OF	-.005	.020	.073	.064	-.004	.039	.071	.036	.119	.174
C OF VAR OF	.076	.077	.081	.085	.081	.081	.078	.076	.074	.070

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	151.206	110.863	83.306	56.174	45.589	38.037	35.690	33.526	31.575	25.470
1.05	213.101	150.135	104.321	73.005	59.715	49.634	45.842	42.855	39.540	31.206
1.11	255.007	176.444	118.659	84.229	68.858	57.049	52.262	48.698	44.483	34.690
1.25	315.934	214.511	139.867	100.466	81.716	67.363	61.115	56.688	51.204	39.345
2.00	471.472	311.555	196.751	142.116	112.929	91.893	81.893	75.162	66.620	49.720
5.00	694.967	452.197	286.986	203.600	155.257	124.165	108.787	98.559	86.014	62.280
10.00	847.088	549.271	354.828	246.961	182.988	144.773	125.761	113.065	98.005	69.819
25.00	1042.351	675.717	450.091	304.612	217.701	170.050	146.412	130.469	112.383	78.662
50.00	1189.450	772.402	528.212	349.583	243.348	188.390	161.295	142.858	122.620	84.842
100.00	1337.642	871.071	612.663	396.258	268.838	206.357	175.806	154.822	132.513	90.730

1-3790.00 PASSAIC RIVER NEAR MILLINGTON, N. J.
SUMMARY DURATION TABLE OF DAILY DISCHARGE

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.20	0	17166	100.0	9	3.20	250	16562	96.5	18	34.0	1245	9761	56.9	27	360	307	592	3.4
1	0.30	3	17156	100.0	10	4.20	327	16312	95.0	19	44.0	1387	8516	49.6	28	470	160	295	1.6
2	0.50	11	17163	100.0	11	5.40	448	15985	93.1	20	57.0	1310	7129	41.5	29	610	85	125	.7
3	0.60	20	17152	99.9	12	7.00	724	15537	90.5	21	75.0	1175	5819	33.9	30	800	21	40	.2
4	0.80	75	17132	99.8	13	9.10	819	14813	86.3	22	97.0	1251	4644	27.1	31	1000	15	19	.1
5	1.10	69	17057	99.4	14	12.00	873	13994	81.5	23	130.0	760	3393	19.8	32	1300	3	4	.0
6	1.50	109	16985	99.0	15	15.00	1140	13121	76.4	24	160.0	896	2633	15.3	33	1800	1	1	
7	1.90	176	16877	98.3	16	20.00	1041	11981	69.8	25	210.0	688	1737	10.1	34				
8	2.50	141	16764	97.3	17	26.00	1179	10940	63.7	26	280.0	457	1049	6.1					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

PASSAIC RIVER NEAR MILLINGTON, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1904	11.0 43	12.7 43	13.6 42	14.9 42	21.6 44	27.7 42	34.2 40	48.1 42	72.3 41	152.0 47
1905	8.0 40	9.3 40	10.6 41	11.3 40	13.2 37	17.6 34	21.0 30	27.8 31	45.8 33	91.3 33
1922	7.0 36	7.0 34	7.0 30	7.1 22	8.5 24	9.4 17	9.9 16	13.4 14	29.1 22	72.0 15
1923	3.0 15	3.7 16	3.9 16	4.2 15	5.0 14	6.0 14	7.3 10	8.3 8	11.7 6	57.2 7
1924	6.4 32	7.0 30	7.8 35	8.9 33	12.6 34	18.4 35	25.8 35	27.9 32	33.0 23	105.0 36
1925	7.1 37	7.4 37	8.2 36	9.9 37	14.6 39	19.2 36	25.1 33	34.6 36	36.5 27	78.2 21
1926	4.0 24	5.4 28	6.8 28	8.3 29	9.8 31	11.1 24	14.8 24	19.7 25	35.7 26	72.9 17
1927	13.0 44	14.0 45	15.1 44	16.1 44	19.6 41	26.3 46	33.1 45	48.5 45	90.1 45	117.0 41
1928	15.0 47	15.0 47	15.4 45	23.7 47	25.3 46	31.8 43	36.5 42	49.3 43	79.7 43	112.0 38
1929	3.1 17	4.0 20	5.7 24	7.4 26	8.9 27	9.5 18	10.9 18	14.4 18	25.3 19	77.3 19
1930	3.3 18	4.5 22	5.1 21	6.0 21	7.3 19	11.0 22	13.5 20	14.2 17	22.0 15	46.1 2
1931	3.9 22	5.9 29	7.0 29	8.0 28	8.7 25	10.2 19	12.3 19	16.3 20	27.7 21	62.0 9
1932	0.9 4	0.9 4	1.1 4	1.8 5	2.0 4	3.2 5	3.5 5	5.7 6	15.3 10	83.3 25
1933	4.3 25	4.6 23	6.2 26	7.3 24	11.8 32	16.8 33	27.2 38	42.9 41	74.5 42	94.5 35
1934	6.8 34	6.8 33	7.7 33	9.1 34	12.5 33	13.5 26	27.1 37	37.9 38	58.8 36	92.0 34
1935	5.8 31	6.4 31	7.3 32	7.6 27	8.3 23	14.1 29	13.9 22	19.7 26	21.3 13	88.7 30
1936	3.6 20	3.8 17	4.1 17	4.6 16	5.5 17	7.6 15	8.4 13	13.4 15	18.0 12	79.1 22
1937	6.9 33	6.6 32	7.1 31	8.8 32	13.1 36	24.4 38	26.9 36	33.0 35	40.5 29	80.5 23
1938	13.6 46	13.8 44	14.4 43	15.2 43	21.8 45	48.6 45	85.2 47	88.5 46	104.0 46	131.0 46
1939	3.6 21	3.9 13	4.7 20	5.7 20	6.2 18	7.7 16	8.9 15	9.1 9	14.1 9	56.7 6
1940	10.3 42	11.8 42	16.7 47	17.7 45	21.0 43	36.6 44	53.3 44	52.1 44	64.8 40	109.0 37
1941	3.0 16	3.1 15	3.9 14	3.7 14	4.4 13	5.7 10	10.3 17	12.7 13	23.4 16	62.4 11
1942	5.6 30	6.1 30	8.4 37	10.7 38	15.5 40	19.4 37	25.7 34	41.1 40	113.0 47	126.0 44
1943	4.6 26	4.7 24	5.3 23	7.3 25	7.9 22	10.3 20	13.6 21	18.4 21	44.6 31	82.5 24
1944	1.9 13	1.9 13	2.1 12	2.3 9	2.7 7	3.9 7	8.3 12	9.6 10	13.8 8	78.1 20
1945	13.1 45	14.6 46	16.2 46	20.0 46	34.5 47	60.5 47	68.6 46	91.9 47	87.4 44	119.0 42
1946	9.3 41	9.4 41	9.9 40	11.5 41	19.9 42	26.5 40	30.8 39	35.5 34	48.6 34	64.7 27
1947	4.9 27	5.0 25	5.2 22	5.5 19	7.6 21	11.0 23	18.4 29	24.9 29	62.2 39	115.0 39
1948	7.0 35	7.1 36	7.8 34	8.6 31	8.9 26	10.3 21	15.8 27	22.9 27	41.7 30	122.0 43
1949	1.2 7	1.4 8	2.0 11	2.7 13	3.5 10	3.9 9	4.1 7	4.9 5	6.1 2	47.6 3
1950	5.0 28	5.1 26	5.8 25	7.2 23	9.1 28	11.7 25	14.9 25	15.7 19	34.1 24	86.1 28
1951	7.4 38	7.9 38	9.2 39	9.4 35	12.9 35	27.0 41	34.9 41	37.6 37	45.5 32	117.0 40
1952	7.6 39	8.1 37	9.0 38	9.5 36	9.7 30	15.2 31	38.2 43	40.8 39	59.9 37	129.0 45
1953	1.7 12	1.8 12	1.9 9	2.3 10	2.6 6	3.4 6	5.1 8	6.9 7	11.8 7	61.2 8
1954	1.5 10	1.7 10	2.2 13	2.3 11	3.9 11	5.8 12	8.0 11	18.1 22	24.2 17	71.4 14
1955	1.2 8	1.3 7	1.5 7	1.7 4	3.2 9	13.6 27	14.1 23	23.2 28	60.9 38	91.2 31
1956	5.1 29	5.3 27	6.7 27	11.0 39	13.3 38	25.6 39	24.1 32	27.3 30	34.3 25	74.6 18
1957	1.0 5	1.1 5	1.4 5	1.9 6	2.1 5	2.4 4	2.8 3	4.0 2	7.7 3	87.5 29
1958	4.0 23	4.0 21	4.3 18	4.7 17	7.5 20	13.8 28	17.4 28	18.8 24	39.8 28	83.4 26
1959	1.5 9	1.6 9	1.9 8	2.1 7	5.4 15	15.7 32	15.8 26	18.1 23	26.8 20	72.0 15
1960	2.1 14	2.8 14	3.9 15	8.5 30	9.6 29	14.6 30	22.4 31	29.8 33	48.7 35	91.2 32
1961	3.3 19	3.9 19	4.4 19	4.7 18	5.5 16	5.7 11	7.3 9	11.5 12	16.9 11	69.5 13
1962	1.6 11	1.8 11	2.0 10	2.6 12	4.4 12	5.9 13	8.6 14	13.9 16	21.5 14	64.7 12
1963	1.1 6	1.1 6	1.4 6	2.1 8	3.0 8	4.1 9	4.0 6	4.8 4	8.9 4	50.8 5
1964	0.4 2	0.4 1	0.5 1	0.5 1	0.6 1	1.6 3	3.7 4	4.7 3	9.1 5	48.5 4
1965	0.6 3	0.6 2	0.7 2	0.8 2	1.1 3	1.3 1	1.6 1	2.4 1	3.9 1	31.9 1
1966	0.3 1	0.6 3	0.8 3	0.9 3	1.0 2	1.3 2	1.9 2	9.8 11	24.5 18	63.1 10
MEAN	5.026	5.470	6.240	7.406	9.725	15.338	20.185	25.257	39.108	84.855
VARIANCE	14.308	15.966	19.415	27.535	51.700	183.073	322.104	410.984	717.489	675.817
STD DEV	3.783	3.996	4.406	5.247	7.190	13.530	17.947	20.273	26.786	25.996
SKEWNESS	.975	.911	.856	1.057	1.280	1.779	1.830	1.636	.966	.417
SE OF SKEW	.347	.347	.347	.347	.347	.347	.347	.347	.347	.347
SER CORR	.298	.307	.253	.220	.195	.112	.066	.029	.041	.112
C OF VAR	.753	.730	.706	.709	.739	.882	.889	.803	.685	.306

LOGS

MEAN OF	.551	.595	.662	.739	.854	1.025	1.144	1.269	1.480	1.908
VAR OF	.166	.157	.146	.144	.146	.162	.161	.130	.115	.019
STD DEV OF	.408	.396	.382	.380	.382	.402	.401	.361	.339	.139
SKEW OF	-.713	-.682	-.686	-.762	-.769	-.409	-.358	-.313	-.517	-.438
SE OF SKEW OF	.347	.347	.347	.347	.347	.347	.347	.347	.347	.347
SER CORR OF	.467	.466	.438	.412	.373	.298	.276	.159	.119	.193
C OF VAR OF	.740	.665	.577	.514	.447	.392	.350	.284	.229	.073

1-3790.00 PASSAIC RIVER NEAR MILLINGTON, N. J.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	.249	.304	.386	.447	.574	.937	1.283	2.231	3.670	34.704
20.00	.644	.753	.930	1.104	1.429	2.093	2.798	4.425	7.526	46.039
10.00	1.018	1.169	1.422	1.704	2.212	3.132	4.147	6.263	10.731	53.012
5.00	1.697	1.914	2.289	2.760	3.593	4.983	6.542	9.388	16.072	62.334
2.00	3.973	4.366	5.072	6.114	7.990	11.292	14.721	19.412	32.273	82.784
1.25	7.952	8.607	9.753	11.582	15.165	23.402	30.645	37.753	58.922	106.367
1.11	10.782	11.623	13.022	15.269	19.997	33.103	43.631	52.201	77.856	119.738
1.04	14.318	15.410	17.078	19.693	25.785	46.735	62.213	72.470	102.106	134.612
1.02	16.836	18.124	19.957	22.736	29.758	57.626	77.321	88.741	119.993	144.481
1.01	19.217	20.706	22.678	25.536	33.408	68.971	93.298	105.818	137.514	153.484

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

PASSAIC RIVER NEAR MILLINGTON, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1925	1820.0 1	1550.0 1	1050.0 1	736.0 1	485.0 1	322.0 1	358.0 1	299.0 1	227.0 1	138.0 2
1922	509.0 38	441.0 38	363.0 35	260.0 33	221.0 33	170.0 30	147.0 31	131.0 34	115.0 33	67.1 35
1923	700.0 22	646.0 19	503.0 19	367.0 15	265.0 17	178.0 28	137.0 34	122.0 36	93.6 39	51.0 43
1924	1020.0 5	912.0 5	574.0 12	376.0 13	269.0 16	238.0 12	210.0 10	174.0 13	158.0 9	93.5 17
1925	700.0 23	653.0 17	606.0 8	508.0 5	398.0 4	266.0 7	195.0 14	154.0 19	118.0 31	75.4 31
1926	630.0 30	583.0 29	461.0 28	361.0 17	243.0 25	180.0 27	138.0 33	136.0 33	123.0 27	80.6 27
1927	400.0 45	382.0 43	292.0 43	211.0 44	199.0 39	160.0 33	119.0 39	114.0 38	103.0 37	95.7 14
1928	665.0 27	621.0 26	466.0 27	322.0 27	219.0 34	201.0 22	171.0 21	149.0 24	146.0 12	139.0 1
1929	735.0 17	655.0 16	482.0 25	366.0 16	263.0 19	229.0 13	215.0 9	184.0 11	143.0 15	82.5 24
1930	525.0 37	452.0 37	286.0 44	225.0 42	168.0 43	117.0 45	113.0 41	101.0 42	85.3 44	56.2 40
1931	430.0 42	376.0 45	314.0 42	205.0 45	169.0 42	137.0 40	113.0 42	105.0 40	88.3 42	59.8 39
1932	630.0 28	511.0 33	398.0 32	246.0 36	185.0 40	125.0 44	118.0 40	113.0 39	86.2 43	46.8 44
1933	934.0 9	873.0 7	644.0 6	471.0 6	340.0 8	214.0 18	169.0 22	145.0 27	157.0 10	123.0 5
1934	897.0 10	780.0 10	480.0 26	282.0 31	233.0 28	195.0 23	164.0 25	143.0 28	120.0 28	79.3 29
1935	443.0 41	427.0 40	343.0 36	247.0 35	214.0 36	156.0 36	122.0 37	116.0 37	106.0 36	68.5 34
1936	1450.0 2	1290.0 2	868.0 3	647.0 3	449.0 2	313.0 2	232.0 5	218.0 5	174.0 6	96.9 13
1937	504.0 39	460.0 36	317.0 41	268.0 32	232.0 29	205.0 21	176.0 20	158.0 18	137.0 18	83.6 27
1938	1000.0 6	883.0 6	644.0 7	346.0 20	226.0 30	106.0 26	167.0 24	153.0 20	125.0 25	115.0 6
1939	553.0 34	501.0 34	383.0 34	324.0 24	280.0 13	240.0 11	229.0 6	196.0 6	166.0 7	94.1 16
1940	816.0 13	738.0 14	492.0 22	336.0 21	277.0 14	243.0 10	207.0 12	187.0 10	140.0 16	87.5 20
1941	405.0 44	380.0 44	281.0 45	237.0 40	216.0 35	156.0 37	133.0 35	137.0 32	120.0 29	74.7 32
1942	1280.0 3	1190.0 3	997.0 2	716.0 2	411.0 3	264.0 8	186.0 17	146.0 25	134.0 22	99.4 11
1943	868.0 12	765.0 13	535.0 15	309.0 28	210.0 37	170.0 31	168.0 23	162.0 15	137.0 19	94.4 15
1944	525.0 35	464.0 35	340.0 38	302.0 29	262.0 20	229.0 14	191.0 15	166.0 14	137.0 20	82.2 25
1945	704.0 20	646.0 18	556.0 13	451.0 8	303.0 10	187.0 24	190.0 16	161.0 16	145.0 13	109.0 8
1946	755.0 16	630.0 22	451.0 29	322.0 25	289.0 11	212.0 19	161.0 26	152.0 21	140.0 17	112.0 7
1947	525.0 36	431.0 39	330.0 39	242.0 38	224.0 31	187.0 25	180.0 19	158.0 17	132.0 23	81.0 26
1948	713.0 18	639.0 20	586.0 10	398.0 11	352.0 6	292.0 4	251.0 2	229.0 2	188.0 4	130.0 4
1949	1240.0 4	1150.0 4	776.0 4	553.0 4	366.0 5	274.0 5	217.0 8	191.0 8	144.0 14	77.8 30
1950	383.0 46	339.0 46	277.0 46	192.0 46	137.0 46	129.0 42	106.0 45	101.0 41	89.0 40	53.8 41
1951	690.0 24	629.0 23	493.0 21	322.0 26	245.0 24	225.0 15	196.0 13	176.0 12	160.0 8	96.9 12
1952	798.0 14	748.0 12	541.0 14	396.0 12	254.0 22	218.0 17	208.0 11	192.0 7	191.0 3	137.0 3
1953	700.0 21	609.0 28	523.0 17	408.0 10	331.0 9	272.0 6	240.0 3	223.0 3	196.0 2	108.0 9
1954	320.0 47	274.0 47	216.0 47	156.0 47	128.0 47	96.7 47	101.0 46	89.7 46	77.9 45	46.8 45
1955	884.0 11	773.0 11	590.0 9	466.0 7	251.0 23	151.0 39	123.0 36	127.0 35	111.0 34	82.5 23
1956	672.0 26	636.0 21	500.0 20	291.0 30	235.0 26	209.0 20	181.0 18	152.0 22	136.0 21	89.1 18
1957	630.0 29	610.0 27	522.0 18	329.0 22	233.0 27	176.0 29	157.0 29	138.0 30	124.0 26	70.2 33
1958	711.0 19	629.0 24	483.0 24	329.0 23	262.0 12	248.0 9	229.0 7	219.0 4	187.0 5	102.0 10
1959	425.0 43	395.0 42	320.0 40	221.0 43	165.0 44	127.0 43	107.0 44	94.5 45	99.2 38	62.8 37
1960	626.0 31	541.0 32	397.0 33	258.0 34	180.0 41	155.0 38	146.0 32	145.0 26	127.0 24	88.7 19
1961	944.0 7	868.0 8	671.0 5	446.0 9	349.0 7	301.0 3	236.0 4	190.0 9	146.0 11	86.4 21
1962	944.0 8	800.0 9	530.0 16	348.0 19	277.0 15	222.0 16	160.0 27	143.0 29	106.0 35	59.8 38
1963	680.0 25	625.0 25	490.0 23	370.0 14	264.0 18	157.0 34	119.0 38	97.6 44	88.4 41	51.6 42
1964	462.0 40	397.0 41	343.0 37	243.0 37	201.0 38	157.0 35	149.0 29	150.0 23	119.0 30	68.6 36
1965	624.0 32	560.0 31	411.0 31	226.0 41	155.0 45	111.0 46	92.7 47	77.4 47	60.8 47	32.3 47
1966	615.0 33	579.0 30	431.0 30	237.0 39	222.0 32	131.0 41	109.0 43	97.9 43	68.7 46	38.3 46
1967	780.0 15	728.0 15	575.0 11	360.0 18	255.0 21	165.0 32	147.0 30	137.0 31	115.0 32	80.0 28

1-3790.00 PASSAIC RIVER NEAR MILLINGTON, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	729.021	654.234	492.149	345.362	258.127	197.802	169.866	152.127	129.583	83.974
VARIANCE	82177.000	64851.258	30844.715	16383.246	6024.387	3147.975	2623.143	1851.859	1241.697	673.656
STD DEV	286.665	254.659	175.627	127.997	77.617	56.107	51.217	43.033	35.238	25.955
SKEWNESS	1.592	1.460	1.266	1.384	.957	.370	1.054	.897	.449	.285
SE OF SKEW	.347	.347	.347	.347	.347	.347	.347	.347	.347	.347
SER CORR	-.290	-.279	-.273	-.233	-.121	-.001	.039	.028	.127	.168
C OF VAR	.393	.389	.357	.371	.301	.284	.302	.283	.272	.309

LOGS

MEAN OF	2.834	2.787	2.667	2.513	2.394	2.279	2.212	2.166	2.096	1.902
VAR OF	.024	.024	.021	.022	.016	.016	.016	.015	.015	.021
STD DEV OF	.155	.156	.146	.147	.126	.126	.126	.121	.122	.144
SKEW OF	.340	.283	.178	.414	.094	-.202	.136	-.015	-.345	-.567
SE OF SKEW OF	.347	.347	.347	.347	.347	.347	.347	.347	.347	.347
SER CORR OF	-.318	-.292	-.291	-.223	-.091	.045	.081	.055	.179	.237
C OF VAR OF	.055	.056	.055	.059	.053	.055	.057	.056	.058	.076

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENT INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	325.097	286.818	221.812	164.249	128.341	92.652	85.199	76.486	60.687	32.336
1.05	393.208	350.159	271.763	194.576	154.587	115.974	102.074	92.616	76.767	44.171
1.11	438.251	391.797	303.939	214.674	170.997	130.215	112.669	102.535	86.447	51.479
1.25	503.142	451.463	349.234	243.673	193.524	149.290	127.271	115.950	99.222	61.230
2.00	669.274	602.711	460.400	318.134	246.426	191.843	161.819	146.587	126.871	82.367
5.00	916.193	824.139	615.566	429.337	315.818	243.150	207.673	185.140	158.571	106.012
10.00	1092.414	980.115	720.603	509.073	360.489	273.733	237.498	209.092	176.623	118.966
25.00	1329.889	1188.025	856.174	616.995	415.931	309.350	274.827	237.989	196.871	132.935
50.00	1517.766	1350.876	959.354	702.738	456.701	334.057	302.488	258.705	210.440	141.926
100.00	1715.216	1520.652	1064.483	793.179	497.142	357.443	330.093	278.847	222.936	149.924

STATISTICS OF MONTHLY MEANS, 1905; 1922-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1905; 1922-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR		MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	39.50	39.83	1.724	1.008	3.913	.246d		1.381	.4580	-.0142	.3317	6.740	.501d
NOV	78.07	68.26	1.590	.8743	7.734	.327		1.709	.4392	-.3461	.2570	8.342	.542
DEC	86.21	51.41	.4895	.5963	8.540	.243		1.845	.3050	-.6531	.1653	9.008	.420
JAN	107.0	83.90	2.149	.7843	10.60	.280		1.913	.3354	-.3746	.1753	9.337	.436
FEB	120.1	58.12	.8353	.4838	11.90	-.002		2.025	.2302	-.5456	.1137	9.888	-.118
MAR	187.0	76.36	1.233	.4083	18.52	-.063		2.239	.1689	.1454	.0754	10.93	-.172
APR	132.7	65.60	.3419	.4944	13.14	.287		2.064	.2368	-.3099	.1147	10.08	.300
MAY	81.60	54.17	1.057	.6639	8.083	.306		1.820	.2888	.0445	.1587	8.885	.310
JUN	46.81	44.31	1.821	.9465	4.637	.586		1.515	.3675	.1995	.2426	7.395	.587
JUL	38.79	47.69	2.404	1.229	3.843	.547		1.326	.5040	-.1666	.3801	6.473	.739
AUG	47.62	72.38	3.149	1.520	4.717	.285		1.316	.5871	.0085	.4461	6.426	.641
SEP	44.10	53.59	1.708	1.215	4.369	.458		1.331	.5589	-.1017	.4200	6.496	.653

d Serial correlation coefficient computed from non-continuous arrays of monthly mean discharges.

1-3795.00 PASSAIC RIVER NEAR CHATHAM, N. J.

Location.--Lat 40°43'31", long 74°23'23", 150 ft downstream from Stanley Avenue Bridge.

Drainage area.--100 sq mi.

Remarks.--Diversion significant at low flow only.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1934					14			9	3		24		23		23	29	38	17	8	19		7	27	41	4	20	12	11	11	18	2	2	3	1		98753.0
1935		8			12			26			29		5	30	10	31	23	25	13	11	24	16	22	30	6	9	4	7	9	11		1		2	1	70624.0
1936	12				32			30			21		22	3	21	20	46	21	16	25		7	24	15	7	14	10	11	3	5					55125.0	
1937	4				6			15		21	10	28	26	5	33	25	31	21	10	20	11	21	27	5	10	6	4	9	9		2	2	3	1	71823.0	
1938								9			32		33		28	20	14	18	13	13	13	41	47	10	35	20	13	7	5	3	1				87601.0	
1939								11		47	89		45	13	14	18	15	4	9	14	9	13	12	5	16	12	11	6	1		1				48741.0	
1940								46		60	66		33		22	8	20	27	7	29	4	3	5	5	7	4	3	4	2	3	6	1			47274.0	
1941								49		65	14	57	24	3	23	14	12	25	12		2	36	9	8	4	7	1								25402.0	
1942										2	15	16	10	9	14	38	19	40	28	33	28	27	23	12	11	15	7	7	4	4	1				76621.0	
1943								2	4	15	23	16	11	6	22	8	6	16	20	29	24	24	17	13	14	11	18	8	23	18	12	5			58069.3	
1944								7	11	9	16	12	37	23	22	12	16	20	18	18	17	13	15	19	12	18	10	7	3						56430.2	
1945								2	7	5	10	12	14	7	11	20	19	15	20	23	35	32	26	16	18	11	19	12	12	12					47758.3	
1946								2	2	14	4	11	7	8	30	24	14	30	22	18	26	12	18	14	12	11	9	16	12	11	2	6	3	4	63906.2	
1947										9	13	8	9	12	16	12	6	12	18	28	56	30	25	21	13	11	26	16	10	5	5	2	2		61720.8	
1948								2	1	14	4	4	7	15	8	18	11	21	16	15	21	18	19	20	10	16	17	16	14	13	12	12	13	12	57297.6	
1949								6	8	13	4	4	4	4	10	10	26	18	30	27	29	17	17	21	19	17	23	14	22	14	5	7			73444.5	
1950										6	3	7	6	9	39	23	46	30	29	18	18	20	19	15	18	18	16	17	6	2					69411.5	
1951										1	10	12	23	36	28	27	37	21	28	20	24	16	16	15	8	18	10	13	2						53527.0	
1952								6	8	20	9	5	5	5	7	16	26	27	36	11	30	21	15	22	13	25	27	19	8	4	1				83668.9	
1953								1	5	17	18	23	18	32	19	11	14	14	10	12	15	23	19	16	11	18	17	15	10	10	5	3	4	2	3	5505.8
1954								3	14	4	12	38	21	26	10	13	26	34	23	26	9	24	16	13	12	9	9	7	3						36971.8	
1955										3	6	10	19	23	19	15	17	20	22	14	21	15	17	22	27	32	15	17	12	7	9	3			65079.7	
1956										2		4	16	15	22	13	14	10	28	25	29	27	31	28	21	25	22	14	14	6				91929.4		
1957										10	16	8	5	12	30	27	15	16	12	7	9	11	11	12	23	21	20	24	15	8	7			69812.7		
1958								1	5	21	20	14	13	23	8	21	21	20	17	16	29	18	24	9	13	15	17	17	8	11	4				33498.1	
1959								3	11	4	3	2	10	11	14	37	21	13	23	18	14	16	27	15	20	16	17	11	16	17	7	4	7	3	5	58036.0
1960										1	3	7	21	25	32	24	23	19	24	21	18	15	27	18	18	19	16	3	5	3					60941.0	
1961								2	6	16	20	15	9	14	16	13	16	9	11	8	14	24	15	22	17	13	26	20	24	8	2	5	2	4	45653.9	
1962								2	3	6	5	10	13	15	13	20	13	19	26	29	25	14	13	7	13	16	8	12	11	14	15	22	16	5	70890.0	
1963								12	6	2	4	14	9	24	16	22	31	26	30	26	26	12	16	22	16	20	15	6	7	3					41175.9	
1964										2	9	8	15	11	17	15	13	19	29	48	26	19	29	21	26	13	24	11	4	5	2				63303.3	
1965										2	13	21	10	12	24	26	27	34	28	23	18	25	16	11	16	7	8	5	9	4	2				58103.0	
1966										7	9	13	34	19	32	21	28	32	21	26	18	19	7	9	15	9	7	6	6	7	10	6	3	1	43675.5	
1967								3		4	4	15	22	18	10	17	8	38	27	35	30	20	21	12	10	16	12	13	10	11	1	4	3	1	37449.8	
1968								1	9	13	7	12	19	12	16	9	15	18	26	10	19	10	11	20	23	21	9	18	13	14	10	10			46707.4	
1969								3	15	47	31	32	24	12	18	12	12	10	20	12	20	29	16	21	9	9	2	2	3		2	3	1		24693.6	
1970								6	17	21	23	9	25	28	34	20	20	16	18	16	27	10	12	9	4	5	6	5	5	4	4	1			30681.8	
1971										2	12	17	17	20	14	26	37	51	25	21	29	20	23	9	22	11	3	9	22	11	3	1	5		60849.0	
CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT		
0	0.00	0	13879	100.0	9	12.00	608	12571	90.6	18	84.0	972	6355	45.8	27	610	311	710	5.1	27	610	311	710	5.1	27	610	311	710	5.1	27	610	311	710	5.1		
1	2.00	26	13875	100.0	10	15.00	454	11963	86.2	19	110.0	596	5383	38.8	28	760	203	399	2.8	28	760	203	399	2.8	28	760	203	399	2.8	28	760	203	399	2.8		
2	2.50	4	13853	99.8	11	18.00	825	11509	82.9	20	130.0	706	4787	34.5	29	950	131	196	1.4	29	950	131	196	1.4	29	950	131	196	1.4	29	950	131	196	1.4		
3	3.10	38	13849	99.8	12	23.00	481	10684	77.0	21	160.0	666	4081	29.4	30	1200	33	65	.4	30	1200	33	65	.4	30	1200	33	65	.4	30	1200	33	65	.4		
4	3.90	132	13811	99.5	13	28.00	767	10203	73.5	22	200.0	638	3415	24.6	31	1500	20	32	.2	31	1500	20	32	.2	31	1500	20	32	.2	31	1500	20	32	.2		
5	4.30	141	13679	98.6	14	35.00	618	9436	68.0	23	250.0	689	2777	20.0	32	1800	7	12	.0	32	1800	7	12	.0	32	1800	7	12	.0	32	1800	7	12	.0		
6	6.00	241	13538	97.5	15	44.00	764	8818	63.5	24	320.0	428	2088	15.0	33	2300	4	5	.0	33	2300	4	5	.0	33	2300	4	5	.0	33	2300	4	5	.0		
7	7.50	440	13297	95.8	16	54.00	866	8054	58.0	25	390.0	544	1660	12.0	34	2900	1	1		34	2900	1	1		34	2900	1	1		34	2900	1	1			
8	9.30	286	12857	92.6	17	68.00	833	7198	51.8	26	490.0	406	1116	8.0																						

1-3795.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

PASSAIC RIVER NEAR CHATHAM, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1933	2.0 1	2.0 1	2.0 1	2.0 1	3.1 1	116.0 37	154.0 37	193.0 37	238.0 37	314.0 37
1934	4.0 11	4.0 9	4.0 8	4.7 7	21.8 31	37.1 30	49.5 30	85.1 34	133.0 33	220.0 31
1935	2.0 2	2.0 2	2.6 3	5.4 8	8.1 11	21.5 21	26.2 19	33.4 17	79.5 25	129.0 10
1906	2.0 3	2.0 3	2.0 2	2.4 2	4.3 2	9.1 6	26.7 21	37.4 21	74.2 22	212.0 29
1937	8.0 21	8.0 20	9.7 25	10.9 23	12.8 21	21.8 22	27.7 22	39.5 22	111.0 31	240.0 36
1938	8.0 22	12.0 30	12.0 27	15.4 28	19.6 29	36.6 29	38.3 26	41.4 24	48.3 15	146.0 19
1939	3.0 23	6.0 21	8.0 20	8.0 19	8.4 13	11.7 12	12.5 7	18.8 9	20.0 5	142.0 17
1910	8.0 24	9.0 22	8.0 21	8.0 20	10.0 17	14.2 14	16.7 11	17.2 8	29.6 10	72.9 7
1938	17.0 36	17.7 36	18.1 35	19.0 34	25.7 34	69.3 35	140.0 36	145.0 35	172.0 35	232.0 35
1939	4.2 12	4.4 12	5.7 15	6.7 16	9.3 16	11.3 10	14.5 8	14.2 6	24.5 8	98.1 5
1940	10.0 35	17.3 35	22.9 36	23.8 36	29.1 35	47.8 34	79.3 34	74.5 33	103.0 28	191.0 26
1941	4.5 13	4.5 13	4.8 12	5.4 9	7.1 9	9.2 7	17.4 12	21.3 10	43.6 13	112.0 7
1942	9.7 29	9.9 27	13.6 29	18.7 33	24.3 33	29.0 27	39.8 27	67.7 31	195.0 36	220.0 32
1943	7.8 20	8.1 23	9.1 22	12.0 26	14.5 23	19.8 20	24.6 18	32.0 16	85.3 26	155.0 21
1944	2.2 4	2.3 4	2.9 4	3.1 3	4.3 3	8.1 4	18.0 13	22.3 11	28.1 9	152.0 20
1945	17.5 37	21.2 37	23.8 37	29.6 37	57.7 37	102.0 36	115.0 35	148.0 36	144.0 34	211.0 28
1946	13.5 33	14.1 33	14.6 32	17.2 32	29.3 36	39.4 32	48.9 29	47.1 27	75.0 23	142.0 16
1947	8.6 26	8.6 24	9.3 23	10.4 22	11.7 19	18.3 16	33.5 24	42.1 25	109.0 29	226.0 27
1948	12.6 31	13.2 31	13.8 31	15.1 27	16.5 26	18.4 17	26.6 20	40.8 23	69.7 20	224.0 33
1949	4.8 14	5.1 15	5.7 16	6.2 14	9.0 15	9.9 8	10.1 5	11.0 3	12.5 1	94.0 4
1950	8.6 27	8.9 25	9.7 24	11.7 24	14.8 24	10.7 18	22.2 16	23.8 12	56.8 18	158.0 22
1951	13.2 32	13.7 32	14.9 33	15.5 29	19.5 28	45.1 33	61.3 32	65.6 29	78.9 24	213.0 30
1952	15.0 34	15.7 34	16.0 34	16.7 31	17.4 27	25.5 24	69.0 33	71.7 32	109.0 30	220.0 34
1953	3.7 9	4.0 10	4.7 10	5.4 10	5.7 6	6.5 1	9.2 3	12.7 4	20.8 6	115.0 8
1954	4.0 10	4.3 11	5.3 13	5.5 11	8.0 10	11.3 9	14.5 9	34.8 19	45.6 14	125.0 11
1955	3.5 7	3.6 7	3.9 7	4.1 5	6.6 7	24.1 23	24.5 17	44.0 26	122.0 32	175.0 25
1956	11.0 32	11.7 29	12.7 30	16.2 30	20.5 30	38.4 31	40.4 28	47.5 25	60.4 17	131.0 12
1957	2.7 5	3.0 5	3.5 5	4.7 6	5.4 5	6.8 3	7.2 2	8.7 1	13.3 2	163.0 23
1958	5.7 14	5.8 18	7.1 19	8.2 21	15.2 25	26.8 25	31.6 23	34.3 18	72.0 21	151.0 19
1959	4.9 16	5.1 16	5.3 14	5.5 12	10.7 18	28.4 26	36.0 25	36.9 20	49.7 16	126.0 13
1960	9.3 29	10.4 24	13.3 28	21.4 35	22.7 32	32.6 28	52.8 31	65.8 30	100.0 27	174.0 24
1961	8.5 25	9.3 26	11.0 26	12.3 25	14.0 27	16.4 15	20.3 14	28.5 14	37.1 11	136.0 14
1962	6.5 19	6.5 19	6.8 18	7.7 18	11.8 20	19.4 19	22.0 15	29.8 15	43.6 12	128.0 9
1963	3.5 8	3.7 8	4.7 11	7.0 17	8.9 14	13.3 13	14.7 10	16.5 7	23.2 7	101.0 6
1964	3.0 6	3.2 6	3.6 6	3.8 4	4.3 4	6.5 2	6.6 1	9.1 2	16.2 4	93.1 3
1965	5.5 17	5.8 17	5.8 17	6.3 15	9.3 12	11.6 11	11.9 6	12.7 5	15.4 3	69.3 1
1966	4.6 15	4.6 14	4.6 9	5.8 13	6.6 8	8.4 5	10.1 4	28.2 13	55.8 17	137.0 15
MEAN	7.362	7.878	8.824	10.340	14.243	26.765	37.124	46.011	73.327	161.200
VARIANCE	19.966	24.743	31.621	43.875	106.122	592.062	1216.000	1642.948	2844.118	2915.701
STD DEV	4.468	4.974	5.623	6.624	10.302	24.332	34.871	40.533	53.330	53.997
SKEWNESS	.828	.924	1.013	1.015	2.271	2.363	2.120	2.181	1.238	.552
SE OF SKEW	.388	.388	.388	.388	.388	.388	.388	.388	.388	.388
SER CORR	.066	.050	-.007	-.051	-.039	-.001	-.027	.005	.043	.058
C OF VAR	.607	.631	.637	.641	.723	.909	.939	.881	.727	.335

LOGS

MEAN OF	.786	.810	.859	.927	1.064	1.303	1.430	1.537	1.747	2.183
VAR OF	.077	.082	.082	.082	.079	.103	.117	.108	.116	.023
STD DEV OF	.277	.286	.286	.287	.281	.320	.342	.328	.341	.150
SKEW OF	-.132	-.112	-.111	-.118	.121	.465	.377	.226	-.267	-.300
SE OF SKEW OF	.388	.388	.388	.388	.388	.388	.388	.388	.388	.388
SER CORR OF	.129	.139	.118	.008	-.151	-.040	.063	.003	.080	.050
C OF VAR OF	.352	.353	.333	.309	.264	.246	.239	.214	.195	.069

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	1.303	1.320	1.480	1.718	2.728	4.657	5.375	6.734	7.731	63.199
20.00	2.091	2.139	2.395	2.791	4.093	6.628	8.067	10.450	14.525	83.889
10.00	2.675	2.753	3.082	3.597	5.105	8.154	10.188	13.345	20.045	96.883
5.00	3.587	3.720	4.164	4.867	6.702	10.677	13.739	18.117	29.230	114.605
2.00	6.192	6.530	7.308	8.560	11.438	18.964	25.629	33.509	57.874	155.048
1.25	10.479	11.263	12.607	14.780	19.883	36.520	51.271	64.520	109.057	204.686
1.11	13.688	14.874	16.651	19.521	26.746	53.192	75.818	92.370	148.986	234.435
1.04	18.094	19.905	22.288	26.123	36.902	81.531	117.662	137.142	204.863	269.047
1.02	21.600	23.960	26.834	31.440	45.573	109.012	158.245	178.269	249.740	292.972
1.01	25.276	28.256	31.651	37.067	55.218	142.971	208.329	226.766	296.936	315.519

1-3795.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

PASSAIC RIVER NEAR CHATHAM, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1994	2310.0 3	2230.0 3	1830.0 2	1090.0 3	604.0 6	527.0 3	470.0 3	441.0 1	399.0 1	268.0 1
1905	2990.0 1	2820.0 1	1820.0 3	1080.0 4	660.0 4	474.0 14	472.0 2	390.0 7	299.0 8	193.0 9
1936	1190.0 17	989.0 23	924.0 19	630.0 20	505.0 15	377.0 20	284.0 27	283.0 22	232.0 23	151.0 24
1907	2860.0 2	2460.0 2	2000.0 1	1340.0 1	773.0 1	484.0 8	488.0 1	418.0 3	340.0 6	197.0 7
1908	1600.0 7	1320.0 8	943.0 16	720.0 14	550.0 12	438.0 11	434.0 5	408.0 4	363.0 2	239.0 3
1909	1360.0 10	1110.0 16	854.0 23	678.0 15	490.0 19	337.0 24	354.0 17	310.0 15	236.0 27	134.0 26
1910	2760.0 4	1870.0 4	1630.0 4	1010.0 6	581.0 10	487.0 6	375.0 13	292.0 17	224.0 27	130.0 28
1911	525.0 38	437.0 38	315.0 38	289.0 38	189.0 38	143.0 38	128.0 38	115.0 38	105.0 38	69.6 37
1918	1500.0 8	1420.0 7	1200.0 7	738.0 13	452.0 25	352.0 22	304.0 22	282.0 23	230.0 24	210.0 5
1939	875.0 31	857.0 31	725.0 30	698.0 21	507.0 16	419.0 16	399.0 10	341.0 11	287.0 10	150.0 18
1940	1060.0 23	1000.0 22	816.0 25	643.0 17	486.0 21	437.0 12	378.0 12	341.0 12	253.0 16	156.0 22
1941	718.0 35	676.0 35	534.0 36	416.0 34	387.0 30	281.0 31	235.0 30	242.0 30	210.0 30	131.0 27
1942	1770.0 5	1690.0 5	1520.0 5	1200.0 2	693.0 3	463.0 9	327.0 20	254.0 28	220.0 25	175.0 13
1943	1340.0 9	1290.0 9	1040.0 11	587.0 24	367.0 32	310.0 26	300.0 23	291.0 18	245.0 19	169.0 15
1944	943.0 30	895.0 30	705.0 31	591.0 23	502.0 17	440.0 10	359.0 16	319.0 14	260.0 14	157.0 21
1945	1150.0 18	1130.0 15	1080.0 9	892.0 8	586.0 9	362.0 21	367.0 15	305.0 16	275.0 12	201.0 6
1946	1020.0 24	960.0 25	775.0 28	579.0 26	468.0 22	381.0 19	287.0 26	271.0 27	246.0 17	190.0 11
1947	814.0 32	763.0 32	663.0 32	442.0 32	415.0 28	349.0 23	334.0 19	290.0 19	250.0 18	147.0 25
1948	1200.0 14	1100.0 17	1000.0 12	739.0 12	598.0 8	499.0 4	431.0 6	402.0 5	328.0 7	229.0 4
1949	1680.0 6	1590.0 6	1370.0 6	1040.0 5	701.0 2	538.0 1	426.0 9	376.0 8	283.0 11	152.0 23
1950	639.0 36	615.0 36	550.0 35	383.0 36	290.0 35	264.0 33	212.0 34	195.0 33	171.0 34	101.0 34
1951	955.0 25	972.0 24	875.0 22	583.0 25	453.0 24	422.0 15	368.0 14	335.0 13	296.0 9	178.0 12
1952	1190.0 15	1140.0 14	992.0 14	772.0 10	489.0 20	399.0 18	387.0 11	352.0 9	353.0 4	251.0 7
1953	1100.0 21	1050.0 20	950.0 15	744.0 11	608.0 5	493.0 5	427.0 7	395.0 6	349.0 5	191.0 10
1954	600.0 37	555.0 37	437.0 37	321.0 37	248.0 37	188.0 37	196.0 35	175.0 35	154.0 35	91.8 35
1955	1310.0 11	1270.0 10	1150.0 8	980.0 7	532.0 14	279.0 32	230.0 31	217.0 31	208.0 31	159.0 19
1956	1140.0 19	1090.0 18	918.0 20	553.0 28	447.0 26	400.0 17	345.0 18	288.0 20	257.0 15	167.0 16
1957	1080.0 22	1030.0 21	901.0 21	573.0 27	399.0 29	304.0 27	273.0 28	248.0 29	223.0 28	125.0 30
1958	1120.0 20	1070.0 19	934.0 18	631.0 18	553.0 11	486.0 7	443.0 4	425.0 2	358.0 3	194.0 8
1959	756.0 33	702.0 33	583.0 33	411.0 35	265.0 36	220.0 35	179.0 37	165.0 36	174.0 32	113.0 32
1960	990.0 26	958.0 26	801.0 26	519.0 29	356.0 33	302.0 28	288.0 25	283.0 21	244.0 20	173.0 14
1961	1270.0 12	1230.0 11	1070.0 10	778.0 9	601.0 7	537.0 2	426.0 8	349.0 10	267.0 13	159.0 20
1962	1230.0 13	1160.0 12	939.0 17	604.0 22	535.0 13	434.0 13	312.0 21	282.0 24	210.0 29	120.0 31
1963	955.0 29	918.0 28	822.0 24	631.0 19	454.0 23	286.0 30	224.0 32	149.0 34	173.0 33	103.0 33
1964	742.0 34	698.0 34	568.0 34	452.0 30	369.0 31	290.0 29	267.0 29	276.0 26	229.0 26	128.0 29
1965	970.0 27	901.0 29	761.0 29	424.0 33	298.0 34	214.0 36	180.0 36	156.0 37	123.0 37	67.7 38
1966	960.0 28	920.0 27	777.0 27	448.0 31	425.0 27	252.0 34	215.0 33	196.0 32	144.0 36	84.1 36
1967	1130.0 16	1160.0 13	1000.0 13	667.0 16	490.0 18	330.0 25	300.0 24	279.0 24	240.0 21	167.0 17
MEAN	1248.737	1158.579	967.684	678.579	482.079	372.316	326.947	295.158	248.974	158.637
VARIANCE	312057.125	250444.375	145392.625	61825.973	17075.824	10582.785	8649.645	6359.031	4671.945	2272.963
STD DEV	558.621	500.444	381.304	248.648	130.674	102.873	93.003	79.744	68.352	47.676
SKEWNESS	1.702	1.680	1.084	.845	-.107	-.250	-.171	-.095	.110	.153
SE OF SKEW	.383	.383	.383	.383	.383	.383	.383	.383	.383	.383
SER CORR	.185	.109	-.036	-.116	-.066	-.058	.108	.130	.223	.172
C OF VAR	.447	.432	.394	.366	.271	.276	.284	.270	.275	.301

LOGS

MEAN OF	3.062	3.031	2.954	2.804	2.665	2.552	2.495	2.453	2.379	2.179
VAR OF	.029	.028	.028	.025	.017	.018	.019	.016	.017	.020
STD DEV OF	.170	.168	.168	.157	.132	.135	.138	.128	.129	.142
SKEW OF	.531	.352	-.173	.002	-.957	-.919	-.793	-.715	-.739	-.691
SE OF SKEW OF	.383	.383	.383	.383	.383	.383	.383	.383	.383	.383
SER CORR OF	.068	-.043	-.165	-.158	-.087	-.046	.073	.089	.202	.178
C OF VAR OF	.056	.055	.057	.056	.049	.053	.055	.052	.054	.065

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	541.382	483.597	348.152	275.386	186.437	141.446	125.268	122.709	102.383	60.020
1.05	645.878	592.619	467.392	352.038	262.376	199.709	174.625	165.515	138.833	83.314
1.11	717.697	665.656	544.453	401.290	308.103	235.020	204.697	191.224	160.744	97.638
1.25	824.521	772.029	652.318	470.257	367.111	280.867	244.087	224.661	189.237	116.602
2.00	1113.940	1049.651	910.571	637.014	485.309	373.782	325.778	293.745	247.978	156.867
5.00	1580.500	1473.569	1251.193	863.020	599.379	465.173	409.903	365.456	308.594	200.096
10.00	1936.728	1782.736	1468.168	1011.527	653.173	509.059	452.304	402.194	339.432	222.798
25.00	2444.136	2206.560	1733.140	1198.203	704.136	551.262	494.857	439.719	370.732	246.389
50.00	2866.046	2546.927	1924.400	1336.765	733.072	575.573	520.421	462.691	389.771	261.042
100.00	3327.593	2908.862	2110.887	1475.058	756.291	595.310	541.910	482.322	405.956	273.701

1-3805.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

ROCKAWAY RIVER ABOVE RESERVOIR, AT BOONTON, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1938	47.0 28	50.3 24	51.7 26	56.9 27	70.0 26	141.0 28	189.0 29	207.0 28	255.0 29	305.0 27
1939	19.2 12	20.7 13	22.2 12	23.5 12	30.7 13	31.3 10	36.8 9	36.9 6	48.7 3	152.0 6
1940	41.0 25	42.3 24	49.3 25	49.9 22	55.6 20	82.5 21	108.0 24	106.0 23	146.0 22	256.0 22
1941	14.0 11	19.3 11	22.6 13	23.6 13	25.6 10	30.5 9	43.3 12	51.8 11	67.0 10	154.0 7
1942	37.0 22	41.0 21	48.6 24	54.4 25	79.3 28	87.2 24	109.0 25	132.0 25	198.0 26	273.0 25
1943	22.0 14	23.7 14	25.7 14	29.9 14	33.4 14	37.9 13	44.9 13	60.1 14	96.0 14	171.0 9
1944	15.8 7	15.8 7	16.6 5	18.2 7	21.3 7	28.2 6	37.2 10	38.0 8	53.4 5	191.0 14
1945	72.0 29	77.0 29	90.0 29	104.0 29	114.0 29	156.0 29	174.0 28	213.0 29	245.0 28	295.0 26
1946	34.0 20	35.3 20	37.1 20	42.6 20	59.0 23	77.2 20	88.5 20	92.1 20	110.0 18	174.0 11
1947	30.0 13	32.0 14	32.7 18	33.0 17	35.6 16	51.5 18	62.0 18	84.7 19	150.0 23	257.0 23
1948	33.0 19	33.3 19	35.4 19	38.9 19	46.8 19	52.6 19	67.8 19	75.3 17	101.0 15	249.0 20
1949	17.0 10	17.5 9	18.8 9	22.4 10	25.7 9	28.9 7	33.2 7	45.9 10	53.3 4	139.0 4
1950	29.0 17	29.0 17	31.3 17	36.0 18	40.6 18	41.6 15	49.8 15	55.1 13	105.0 16	250.0 21
1951	37.0 21	38.7 21	43.1 22	51.9 23	57.2 21	90.5 25	107.0 23	115.0 24	139.0 21	318.0 28
1952	46.0 26	50.0 27	52.1 27	54.1 24	59.8 24	84.2 22	167.0 27	170.0 27	234.0 27	373.0 29
1953	16.0 8	17.0 8	18.1 8	21.2 9	21.7 8	22.8 5	31.8 6	37.3 7	61.3 9	171.0 10
1954	17.0 9	17.7 10	19.4 10	20.9 8	27.1 11	32.5 11	42.3 11	63.1 15	92.2 13	178.0 12
1955	15.0 5	15.7 6	17.0 7	17.6 6	19.9 5	42.6 16	50.1 16	75.6 18	155.0 24	222.0 15
1956	39.0 23	43.3 25	46.7 23	55.4 26	57.4 22	98.0 27	90.0 21	102.0 21	118.0 19	200.0 15
1957	12.0 2	12.7 2	14.0 3	14.1 3	15.7 3	19.4 1	25.1 4	34.8 4	57.4 7	211.0 17
1958	26.0 15	28.0 15	27.7 15	32.1 16	40.1 17	47.6 17	55.3 17	64.1 16	105.0 17	201.0 16
1959	42.0 24	40.7 22	43.0 21	45.7 21	64.0 25	87.1 23	103.0 22	105.0 22	124.0 20	216.0 18
1960	47.0 27	48.3 26	54.9 28	67.3 28	72.3 27	91.6 26	115.0 26	135.0 26	185.0 25	262.0 24
1961	26.0 16	27.3 15	28.6 16	31.8 15	34.9 15	40.3 14	48.1 14	54.1 12	73.1 12	178.0 13
1962	20.0 13	20.7 12	21.1 11	22.6 11	29.7 12	33.8 12	35.3 8	40.8 9	59.9 8	149.0 5
1963	15.0 6	15.3 5	16.6 6	16.6 4	21.2 6	28.9 8	29.6 5	33.7 3	56.0 6	130.0 3
1964	13.0 3	13.0 3	13.4 2	13.9 2	15.2 2	19.8 2	23.4 3	29.1 2	48.3 2	122.0 2
1965	13.0 4	13.7 4	14.3 4	17.1 5	19.1 4	20.0 3	20.8 1	25.5 1	44.0 1	108.0 1
1966	10.0 1	10.7 1	11.6 1	12.5 1	14.4 1	20.5 4	23.3 2	36.5 5	68.0 11	158.0 8
MEAN	27.793	29.241	31.848	35.452	41.614	56.069	69.331	80.034	111.538	209.069
VARIANCE	208.215	239.224	312.549	420.579	561.424	1330.463	2244.961	2628.844	3898.919	4221.402
STD DEV	14.430	15.467	17.679	20.508	23.694	36.476	47.381	51.272	62.441	64.972
SKEWNESS	1.094	1.135	1.356	1.445	1.152	1.202	1.216	1.294	.998	.632
SE OF SKEW	.434	.434	.434	.434	.434	.434	.434	.434	.434	.434
SER CORR	.024	.005	-.012	-.008	.033	-.024	.013	-.047	-.132	.152
C OF VAR	.519	.529	.555	.578	.569	.651	.683	.641	.560	.311

LOGS

MEAN OF	1.390	1.411	1.444	1.486	1.555	1.667	1.752	1.826	1.986	2.300
VAR OF	.048	.050	.052	.056	.058	.072	.078	.067	.054	.018
STD DEV OF	.220	.223	.228	.237	.242	.268	.279	.259	.233	.134
SKEW OF	.127	.154	.219	.208	.115	.299	.319	.319	.279	.024
SE OF SKEW OF	.434	.434	.434	.434	.434	.434	.434	.434	.434	.434
SER CORR OF	.128	.120	.121	.109	.120	.073	.163	.094	-.032	.211
C OF VAR OF	.158	.158	.158	.159	.155	.161	.159	.142	.117	.058

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	7.932	8.280	8.928	9.384	10.310	12.699	14.735	19.281	31.047	97.902
20.00	10.882	11.335	12.132	12.934	14.637	17.816	20.862	26.614	41.883	120.429
10.00	12.930	13.466	14.386	15.451	17.712	21.573	25.412	31.956	49.565	134.548
5.00	15.993	16.665	17.799	19.288	22.396	27.479	32.640	40.307	61.289	153.945
2.00	24.296	25.408	27.292	30.078	35.485	45.084	54.603	64.964	94.438	199.447
1.25	37.474	39.464	42.999	48.176	57.074	77.251	95.867	109.520	150.735	258.849
1.11	47.290	50.053	55.137	62.299	73.614	104.198	131.229	146.569	195.257	296.847
1.04	60.892	64.867	72.488	82.634	97.013	145.338	186.243	202.845	260.180	343.718
1.02	71.880	76.939	86.910	99.636	116.245	181.571	235.501	252.210	315.126	377.971
1.01	83.594	89.898	102.642	118.265	137.017	222.962	292.526	308.447	375.959	411.770

1-3805.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ROCKAWAY RIVER ABOVE RESERVOIR, AT BOONTON, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1932	2020.0 5	1560.0 6	1210.0 5	825.0 8	538.0 14	398.0 19	369.0 16	339.0 16	306.0 15	281.0 4
1939	1200.0 19	1030.0 17	846.0 16	621.0 17	591.0 10	558.0 7	532.0 6	467.0 5	412.0 5	247.0 9
1940	1790.0 7	1350.0 11	1010.0 10	769.0 11	736.0 3	603.0 3	548.0 3	458.0 6	342.0 10	212.0 15
1941	317.0 24	592.0 26	545.0 27	481.0 24	398.0 26	312.0 25	281.0 24	294.0 22	271.0 20	177.0 20
1942	1120.0 21	968.0 22	822.0 17	696.0 14	474.0 19	358.0 21	316.0 21	280.0 24	243.0 23	195.0 13
1943	1510.0 14	1210.0 13	912.0 15	608.0 18	451.0 22	424.0 15	382.0 14	388.0 13	344.0 8	242.0 10
1944	1270.0 17	984.0 20	736.0 20	592.0 20	491.0 18	485.0 10	409.0 12	349.0 14	273.0 18	176.0 21
1945	1410.0 15	1260.0 12	1000.0 11	737.0 13	588.0 11	435.0 14	453.0 9	413.0 9	374.0 6	275.0 6
1946	1250.0 18	988.0 19	654.0 22	581.0 22	454.0 21	453.0 12	363.0 17	327.0 17	286.0 17	230.0 17
1947	1250.0 16	1000.0 18	730.0 21	597.0 19	520.0 16	450.0 13	441.0 11	396.0 11	322.0 13	207.0 16
1948	1570.0 11	1106.0 14	946.0 13	764.0 12	640.0 9	528.0 9	474.0 8	478.0 8	336.0 11	242.0 8
1949	2730.0 2	2110.0 2	1440.0 2	1080.0 1	738.0 2	546.0 8	446.0 10	410.0 10	325.0 12	192.0 19
1950	826.0 27	697.0 25	592.0 24	495.0 23	408.0 25	315.0 24	280.0 25	266.0 25	229.0 24	154.0 24
1951	2290.0 3	1810.0 3	1410.0 3	978.0 3	753.0 1	602.0 4	540.0 5	490.0 3	460.0 3	285.0 2
1952	2770.0 1	2150.0 1	1550.0 1	1040.0 2	707.0 4	599.0 5	629.0 1	541.0 1	526.0 1	396.0 1
1953	1740.0 9	1470.0 7	988.0 12	832.0 6	677.0 6	604.0 2	550.0 2	518.0 2	494.0 2	280.0 5
1954	658.0 29	536.0 30	447.0 30	355.0 30	300.0 29	245.0 29	257.0 26	228.0 26	201.0 27	136.0 25
1955	2020.0 4	1780.0 4	1180.0 6	856.0 4	498.0 17	330.0 22	282.0 23	231.0 23	253.0 21	196.0 17
1956	1850.0 6	1760.0 5	1360.0 4	821.0 9	645.0 7	472.0 11	360.0 18	319.0 18	316.0 14	239.0 11
1957	1190.0 20	1040.0 15	931.0 14	655.0 16	473.0 20	371.0 20	319.0 20	297.0 20	272.0 19	167.0 27
1958	1770.0 8	1410.0 9	1030.0 9	772.0 10	642.0 8	567.0 6	528.0 7	481.0 4	433.0 4	257.0 7
1959	937.0 25	676.0 27	470.0 29	364.0 28	318.0 28	287.0 27	243.0 28	218.0 27	210.0 26	163.0 23
1960	1570.0 12	1380.0 10	1110.0 7	825.0 7	567.0 12	414.0 17	387.0 13	389.0 12	357.0 7	282.0 3
1961	1590.0 10	1420.0 8	1110.0 8	839.0 5	692.0 5	626.0 1	541.0 4	448.0 7	343.0 9	224.0 14
1962	1520.0 13	1090.0 16	796.0 18	588.0 21	523.0 15	422.0 16	326.0 19	294.0 21	224.0 25	174.0 27
1963	644.0 30	553.0 29	513.0 28	473.0 26	422.0 23	281.0 28	232.0 29	207.0 29	199.0 28	134.0 28
1964	855.0 26	674.0 28	560.0 26	446.0 27	368.0 27	317.0 23	298.0 22	302.0 19	247.0 22	151.0 25
1965	1030.0 23	835.0 23	565.0 25	357.0 29	267.0 30	205.0 30	180.0 30	163.0 30	146.0 30	88.3 30
1966	974.0 24	748.0 24	597.0 23	477.0 25	409.0 24	292.0 26	245.0 27	212.0 28	177.0 29	118.0 29
1967	1050.0 22	973.0 21	777.0 19	690.0 15	564.0 13	412.0 18	370.0 15	341.0 15	293.0 16	228.0 13
MEAN	1442.033	1176.800	894.500	673.467	528.333	430.366	385.967	351.467	307.233	210.477
VARIANCE	305090.250	194812.250	94098.687	38410.273	18466.477	14743.035	13767.594	10057.133	8597.473	4184.535
STD DEV	552.350	441.375	306.755	195.985	135.891	121.421	117.335	100.285	92.723	64.688
SKEWNESS	.777	.595	.443	.170	-.052	.042	.284	.082	.588	.519
SE OF SKEW	.427	.427	.427	.427	.427	.427	.427	.427	.427	.427
SER CORR	.039	.056	.122	.064	.088	.169	.263	.225	.277	.313
C OF VAR	.383	.375	.343	.291	.257	.282	.304	.285	.302	.307

LOGS

MEAN OF	3.129	3.041	2.926	2.809	2.708	2.616	2.566	2.527	2.468	2.303
VAR OF	.028	.027	.023	.018	.014	.017	.019	.017	.018	.019
STD DEV OF	.166	.165	.152	.134	.120	.130	.137	.132	.132	.139
SKEW OF	-.060	-.104	-.115	-.410	-.570	-.436	-.242	-.477	-.154	-.447
SE OF SKEW OF	.427	.427	.427	.427	.427	.427	.427	.427	.427	.427
SER CORR OF	-.019	.003	.068	.036	.096	.196	.265	.218	.263	.337
C OF VAR OF	.053	.054	.052	.048	.044	.050	.053	.052	.054	.061

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	542.225	439.775	362.278	287.740	240.272	187.176	167.638	149.689	139.859	85.759
1.05	711.405	580.538	468.644	375.988	311.638	243.751	215.071	196.808	175.829	114.004
1.11	820.997	671.440	536.167	429.887	354.059	278.097	244.382	225.449	198.038	131.383
1.25	975.188	798.872	629.553	501.630	409.115	323.573	283.950	263.352	228.073	154.611
2.00	1349.772	1105.911	849.632	658.305	523.717	421.937	373.126	345.053	296.269	205.529
5.00	1858.112	1516.738	1135.773	838.581	646.078	533.538	481.598	436.921	380.642	264.122
10.00	2191.262	1782.440	1316.889	940.906	711.063	596.132	546.493	487.925	432.038	297.266
25.00	2608.373	2111.396	1537.615	1055.007	779.762	665.285	622.130	543.753	492.920	334.057
50.00	2916.571	2351.958	1696.901	1130.939	823.300	710.924	674.581	580.264	535.796	358.417
100.00	3222.889	2589.062	1852.326	1200.405	861.615	752.406	724.186	613.201	576.866	380.604

1-3805.00 ROCKAWAY RIVER ABOVE RESERVOIR, AT BOONTON, N. J.

STATISTICS OF MONTHLY MEANS, 1938-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1938-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	108.4	96.20	2.970	.8879	4.286	.315	1.918	.3171	.1970	.1653	7.294	.616
NOV	205.1	120.7	.7907	.5884	8.112	.491	2.237	.2626	.0267	.1174	8.508	.571
DEC	241.9	134.8	.5572	.5571	9.569	.467	2.314	.2566	-.1010	.1109	8.798	.573
JAN	239.0	137.9	1.233	.5771	9.455	.615	2.315	.2372	.2500	.1025	8.801	.663
FEB	253.6	96.40	.7054	.3801	10.03	.509	2.374	.1683	-.1887	.0709	9.025	.546
MAR	387.5	125.2	.1001	.3231	15.33	.244	2.565	.1494	-.3798	.0583	9.751	.120
APR	370.7	169.4	.2474	.4570	14.66	.547	2.520	.2191	-.3555	.0870	9.580	.508
MAY	239.5	115.9	.8202	.4837	9.474	.387	2.330	.2122	-.0530	.0910	8.861	.459
JUN	146.2	111.2	2.038	.7609	5.781	.636	2.070	.2815	.4544	.1360	7.872	.640
JUL	110.9	102.8	2.093	.9267	4.387	.529	1.893	.3720	.1112	.1965	7.198	.804
AUG	117.0	116.5	1.622	.9957	4.630	.376	1.884	.4047	.3202	.2148	7.162	.635
SEP	108.3	104.8	1.828	.9672	4.284	.541	1.880	.3611	.4477	.1921	7.148	.664

1-3815.00 WHIPPANY RIVER AT MORRISTOWN, N. J.

Location.--Lat 40°48'21", long 74°27'22", at Morristown sewage-disposal plant.

Drainage area.--29.4 sq mi.

Remarks.--Occasional regulation; usually not significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1922					4		7	41	19	32	16	27	16	26	36	37	32	20	15	7	10	5	4	2	2	6	1									16731.0	
1923				25	3	9	21	21	72	18	43	21	31	24	22	17	6	5	5	5	2	7	4				3		1							13215.0	
1924				8		10	52	19	21	13	16	19	30	28	42	22	17	12	19	10	9	8	3	1	2	3				1					1	18819.0	
1925						25	101	09	18	43	23	26	15	18	12	17	11	12	8	5	4	3	1	2	1	2										14721.0	
1926					1		21	12	25	18	49	36	36	40	35	30	15	11	11	4	5	4	3			5	1	2	1							17200.0	
1927							6	8	30	46	52	51	53	48	18	12	12	10	4	5	2	5	3													19039.0	
1928										3	5	15	35	54	70	57	26	24	21	18	10	6	5	6	5	2	1	1						1	1	31441.0	
1929					3		5	46	5	27	9	31	36	56	31	19	24	12	14	14	9	9	3	4	3	2	1	1			1					17237.0	
1930					5	14	13	45	16	37	26	20	19	45	54	18	27	6	5	3	4	3				1	1	3								12259.0	
1931					5	13	9	13	31	28	35	16	26	36	39	31	18	18	15	6	6	8	2	3	2	3	1	1								13212.1	
1932				7	21	12	14	13	14	56	30	20	15	34	31	21	28	13	9	7	9	6	1				1									9814.6	
1933				3	1	4		3	6	9	23	11	14	12	15	22	43	48	26	31	19	21	19	6	11	3	3	4	2			1	1	2	1	1	24528.6
1934						3		12	9	20	15	55	50	50	29	30	17	21	16	12	5	5	3	3	5	2	1									17822.4	
1935								15	22	26	15	23	20	34	59	32	35	34	17	10	10	2	3	3	1	2	2									17521.0	
1936						5	22	38	37	19	15	24	22	18	29	24	15	20	15	17	9	5	7	7	5	4	1	3	1	1				1	1	1	21600.9
1937					1	1	5	64	18	25	20	18	25	14	28	31	37	27	19	8	6	5	6	3	1	1	1									16011.9	
1938								4	9	11	14	24	39	47	61	47	42	18	12	9	9	3	3	2	1	2	2	1	2				1			20013.6	
1939				1	4	9	13	12	20	13	15	6	22	26	38	30	21	21	10	18	26	20	10	12	5	4	6	2	1							21040.0	
1940						20	33	47	22	33	17	17	21	17	15	16	18	29	17	14	7	6	3	5	3	3	1	1							1	16741.4	
1941						11	12	24	24	29	24	22	16	48	44	34	17	23	17	5	6	1	3	1	3											14479.0	
1942				1	13	12	46	22	31	26	32	30	29	19	18	20	16	12	10	5	4	1	3	3	5	2	2	1					1	1		17265.3	
1943								18	20	12	20	8	11	21	44	50	48	31	32	12	17	6	3	4	5											20584.4	
1944					3	15	8	33	26	29	22	36	33	27	22	12	17	17	23	13	11	2	5	4	2	1	3	1	1							16367.2	
1945					1	6	15	15	4	6	13	36	54	35	36	23	22	15	16	22	14	7	8	10	5	1										19417.0	
1946								3	7	22	29	41	52	39	41	32	24	20	20	6	6	11	4			4	1	1	2								20714.9
1947								9	43	59	35	35	30	19	24	26	32	17	7	10	5	4	3	4	1	3	4	1								16993.9	
1948						13	20	13	15	29	34	44	24	23	24	23	23	25	17	12	11	6	1	5	1	1	1	2								22109.0	
1949						2	36	30	54	31	27	20	9	9	23	32	28	23	15	9	1	3	6	4												17800.0	
1950						1	45	43	38	33	26	35	33	35	24	19	11	7	7	2	3	2														11850.9	
1951						18	20	17	24	22	23	36	25	24	28	36	24	19	13	8	7	8	4	4	4	2										22230.4	
1952								4	10	24	36	25	8	27	33	55	33	28	32	10	13	4	8	7	2	2	2	1	1	2				1		29869.0	
1953					1		28	10	41	31	19	17	18	17	18	22	30	27	15	17	13	14	11	7	2	2	1	2	2							24028.6	
1954					1	2	46	33	53	34	40	25	32	37	23	11	7	2	5	5	3	4	2													11523.6	
1955					7	10	16	9	28	23	45	32	31	37	39	25	21	12	11	4	3	3	3	1	1				1	1			1	1	17077.2		
1956						3	25	20	45	44	27	25	32	34	32	24	17	15	6	6	4	4	4	2												19934.0	
1957					3	10	41	19	29	10	37	26	32	35	35	26	16	13	10	7	6	2	2	2	2	2	1	1								15545.4	
1958					2	7	27	18	30	24	33	28	23	25	20	12	17	27	15	16	13	9	7	6	2	1	1						1	1		21023.2	
1959						6	19	40	30	55	56	36	38	27	14	15	9	4	3	4	4				2	2	1									13964.0	
1960						4	17	30	37	30	25	39	43	33	34	27	9	7	7	8	4	3	5	1	1	2										21025.0	
1961						1	1		2	6	23	15	31	84	54	27	12	15	8	22	14	23	6	11	2	1	6									19214.2	
1962				1	1	1	1	1	1	36	57	37	43	52	16	22	13	18	16	12	10	7	5	5	3	2	2							1		13387.6	
1963								11	10	25	25	26	24	72	56	36	18	15	4	12	7	11	7	3												12023.2	
1964				2	2	4	12	10	18	31	28	29	15	31	28	12	14	23	22	21	18	15	10	4	5	5	2	1								14969.3	
1965					3	19	61	25	40	21	34	18	25	48	35	9	7	9	1	4					1											8511.2	
1966						6	31	9	36	27	57	28	25	34	28	28	13	18	5	5	3	2	4			2	1	1	2							11070.3	
1967						7	4	15	26	35	45	42	29	46	25	21	22	13	13	11	3	6	1													18475.0	

1-3815.00 WHIPPANY RIVER AT MORRISTOWN, N. J.
SUMMARY DURATION TABLE OF DAILY DISCHARGE

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16801	100.0	9	16.00	1311	14100	83.9	18	72.0	735	2794	16.6	27	330	32	96	.5
1	4.20	10	16801	100.0	10	19.00	947	12789	76.1	19	85.0	568	2059	12.3	28	360	24	64	.3
2	5.00	28	16791	99.9	11	22.00	1425	11842	70.5	20	100.0	454	1491	8.9	29	450	12	40	.2
3	5.90	30	16763	99.8	12	26.00	1443	10417	62.0	21	120.0	258	1037	6.2	30	540	10	28	.1
4	6.40	131	16733	99.6	13	31.00	1459	8974	53.4	22	140.0	242	779	4.6	31	640	7	18	.1
5	8.20	258	16602	98.8	14	37.00	1382	7515	44.7	23	170.0	165	537	3.2	32	750	6	11	.0
6	9.70	291	16344	97.3	15	44.00	1272	6133	36.5	24	200.0	117	372	2.2	33	890	4	5	.0
7	11.00	1136	16053	95.5	16	52.00	1124	4861	28.9	25	230.0	109	255	1.5	34	1100	1	1	.0
8	14.00	817	14917	88.8	17	61.00	943	3737	22.2	26	280.0	50	146	0.9					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

WHIPPANY RIVER AT MORRISTOWN, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1922	14.0 36	14.0 35	15.1 34	15.4 32	16.5 29	17.7 26	18.6 20	24.4 28	29.6 29	50.4 28
1923	7.0 8	7.0 6	7.1 4	8.4 4	9.4 4	10.8 5	11.8 5	13.0 5	17.8 9	36.0 7
1924	11.0 26	11.7 28	11.9 24	12.7 21	15.3 25	16.7 22	20.9 27	20.9 21	22.1 15	54.2 31
1925	11.0 27	11.3 23	11.6 21	12.7 22	17.3 31	18.9 27	23.7 31	27.0 33	28.5 26	46.2 23
1926	8.0 11	11.3 24	12.0 26	14.1 30	14.9 23	18.9 28	23.9 34	27.4 34	30.7 31	45.8 21
1927	18.0 44	18.7 45	22.1 45	23.5 44	31.3 45	39.7 45	43.1 44	44.3 44	46.8 42	64.3 40
1928	18.0 44	18.0 44	20.9 44	23.9 45	27.7 44	32.9 43	33.7 41	36.9 42	48.6 43	70.1 40
1929	8.0 12	8.0 8	9.3 9	10.1 11	12.1 13	13.3 14	15.2 15	18.4 17	21.9 14	43.1 14
1930	6.8 6	6.8 5	7.0 3	7.2 3	8.1 2	10.5 4	11.5 4	12.1 3	15.5 3	26.9 1
1931	10.2 22	10.8 19	11.5 18	12.4 19	13.2 16	14.0 15	14.9 14	16.4 13	24.1 19	37.5 9
1932	4.2 1	4.6 1	4.7 1	5.2 1	6.3 1	7.4 1	7.9 1	11.4 2	17.8 10	46.3 24
1933	10.7 24	10.7 18	11.3 15	12.8 23	16.2 28	20.2 34	26.4 37	35.4 40	44.2 41	55.4 37
1934	8.9 17	9.1 12	11.5 19	13.3 26	18.5 36	23.3 29	25.7 36	32.5 38	44.1 40	57.5 36
1935	13.0 35	13.3 34	13.7 33	14.1 31	14.4 20	20.1 31	19.5 26	26.9 32	27.1 24	55.5 33
1936	8.0 13	9.4 14	9.9 13	10.2 12	12.2 14	13.2 13	13.8 11	14.7 10	17.3 8	44.3 18
1937	11.5 30	11.6 27	11.9 25	12.5 20	15.2 24	20.7 36	22.4 29	24.0 25	29.4 28	46.6 20
1938	4.1 18	16.7 40	19.9 43	20.6 41	23.6 42	32.9 44	44.0 45	45.9 45	52.4 44	65.6 41
1939	5.7 4	6.5 3	8.0 6	8.6 5	9.5 5	10.3 3	12.7 6	13.3 6	16.0 1	36.7 8
1940	14.6 37	15.2 38	17.6 39	18.4 39	21.4 39	26.5 39	31.0 39	30.8 36	36.5 34	55.6 34
1941	7.7 9	9.0 10	9.4 10	9.8 9	10.4 8	11.0 6	13.1 9	14.5 9	17.1 7	32.4 3
1942	11.2 28	11.5 26	12.4 29	16.9 37	18.8 37	19.9 30	23.8 32	28.9 35	55.9 45	66.2 42
1943	11.2 29	11.3 25	11.4 16	12.2 17	15.6 27	17.2 23	18.7 21	22.7 22	29.1 27	44.0 16
1944	8.1 14	8.2 9	9.1 8	9.6 8	10.2 6	12.7 10	13.9 12	14.3 8	18.7 11	43.8 15
1945	17.0 42	17.2 42	18.9 42	21.6 42	23.7 43	28.0 42	33.8 42	40.9 43	43.3 38	57.5 37
1946	15.0 40	15.8 39	16.4 38	18.2 38	19.4 38	20.2 32	22.1 28	24.5 29	28.2 25	46.1 22
1947	12.6 34	13.1 33	13.5 32	13.7 28	14.2 18	16.3 21	18.9 22	23.5 24	34.5 33	57.9 38
1948	14.7 38	15.1 37	15.2 35	16.0 34	16.6 30	17.2 24	19.4 24	20.3 20	27.0 23	62.9 39
1949	10.4 23	10.9 20	11.5 20	11.9 15	13.6 17	14.4 16	14.9 13	15.0 12	16.2 4	32.7 4
1950	11.6 31	11.9 29	12.2 28	13.2 24	14.5 21	15.6 17	17.6 19	19.3 19	25.9 21	50.9 29
1951	17.0 43	18.0 43	18.3 41	19.0 40	22.3 40	27.0 41	34.2 43	36.7 41	40.3 36	70.8 44
1952	9.6 20	12.2 30	15.4 36	16.7 36	17.4 32	20.5 35	29.7 38	31.6 37	43.7 39	76.4 45
1953	11.0 25	11.3 21	11.7 22	12.4 18	12.7 15	13.0 11	15.3 16	16.8 14	21.3 13	42.0 12
1954	9.6 21	10.3 17	11.4 17	12.0 16	14.4 19	17.6 25	19.5 25	23.2 23	25.4 20	43.0 13
1955	8.8 16	9.1 11	9.7 12	9.9 10	11.3 11	16.2 19	19.1 23	24.6 30	39.7 35	51.2 30
1956	15.0 39	15.0 36	15.6 37	16.1 35	17.8 35	24.0 38	25.5 35	26.9 31	30.6 30	47.1 25
1957	9.2 19	9.5 16	10.1 14	10.8 14	11.5 12	12.4 9	12.9 8	13.3 7	16.6 5	48.7 26
1958	12.0 32	12.7 31	13.3 31	15.5 33	17.6 33	22.2 37	23.8 33	24.3 27	30.9 32	49.8 27
1959	12.0 33	12.7 32	13.0 30	14.0 29	17.8 34	20.2 33	22.9 30	24.1 26	26.7 22	45.5 19
1960	16.0 41	17.0 41	18.1 40	21.7 43	23.5 41	26.9 40	33.2 40	34.6 39	40.4 37	64.5 35
1961	4.7 2	4.6 15	11.9 23	13.4 27	14.6 22	15.9 18	16.9 16	18.2 16	22.7 17	47.1 17
1962	7.7 10	11.4 22	12.1 27	13.3 25	15.5 26	16.3 20	16.8 17	16.9 16	22.6 14	31.7 14
1963	8.4 10	9.7 13	9.5 11	10.3 13	11.0 10	13.1 12	13.6 10	14.9 11	19.3 12	31.7 14
1964	4.7 2	4.4 2	5.0 2	7.2 2	8.4 1	9.5 2	9.6 2	10.7 1	14.5 2	31.7 14
1965	9.2 4	9.7 4	7.7 5	9.0 6	10.4 7	11.3 7	11.5 3	12.6 4	14.9 4	27.1 7
1966	6.9 7	7.6 7	8.2 7	9.2 7	10.7 9	11.5 8	12.8 7	13.0 15	14.9 13	31.7 14

MEAN	10.596	11.451	12.418	13.549	15.489	18.091	20.760	23.287	28.853	48.382
VARIANCE	13.269	12.747	15.849	19.132	27.311	46.207	71.567	82.890	124.578	137.542
STD DEV	3.643	3.570	3.981	4.374	5.226	6.798	8.460	9.104	11.161	11.728
SKEWNESS	.371	.237	.529	.614	.871	1.120	.983	.716	.696	.349
SE OF SKEW	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR	.089	.100	.125	.112	.113	.102	.105	.085	-.002	.160
C OF VAR	.344	.312	.321	.323	.337	.376	.408	.391	.387	.242

LOGS

MEAN OF	.998	1.036	1.071	1.110	1.166	1.230	1.284	1.335	1.429	1.672
VAR OF	.025	.021	.021	.020	.021	.024	.029	.028	.027	.012
STD DEV OF	.158	.145	.145	.143	.145	.156	.171	.169	.165	.107
SKEW OF	-.401	-.563	-.406	-.272	-.106	.140	.101	.051	.133	-.238
SE OF SKEW OF	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR OF	.081	.115	.129	.095	.071	.065	.124	.097	-.002	.182
C OF VAR OF	.158	.140	.135	.129	.125	.127	.133	.126	.116	.064

1-3815.00 WHIPPANY RIVER AT MORRISTOWN, N. J.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENT INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	3.854	4.365	4.930	5.607	6.559	7.642	7.910	8.897	11.511	25.317
20.00	5.277	5.979	6.581	7.310	8.374	9.543	10.167	11.491	14.585	30.782
10.00	6.177	6.979	7.605	8.369	9.517	10.776	11.651	13.185	16.597	34.029
5.00	7.409	8.315	8.986	9.806	11.089	12.519	13.773	15.593	19.466	38.285
2.00	10.209	11.221	12.057	13.062	14.758	16.830	19.103	21.569	26.648	47.447
1.25	13.594	14.487	15.670	17.035	19.480	22.895	26.746	29.973	36.917	57.992
1.11	15.583	16.282	17.754	19.411	22.447	27.021	32.011	35.644	43.986	64.057
1.04	17.852	18.223	20.102	22.178	26.046	32.361	38.883	42.990	53.219	70.941
1.02	19.391	19.475	21.677	24.092	28.633	36.434	44.158	48.542	60.313	75.612
1.01	20.818	20.591	23.128	25.898	31.152	40.588	49.565	54.175	67.591	79.960

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WHIPPANY RIVER AT MORRISTOWN, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1922	290.0 40	209.0 35	186.0 24	124.0 31	91.0 33	78.0 32	72.1 30	73.2 23	68.2 21	45.8 28
1923	411.0 23	299.0 19	209.0 18	163.0 13	120.0 19	93.6 21	76.2 28	66.4 32	56.5 36	36.2 38
1924	903.0 5	425.0 8	248.0 10	183.0 9	134.0 13	127.0 7	106.0 10	90.7 11	79.0 10	51.4 18
1925	360.0 30	236.0 28	181.0 26	153.0 16	128.0 15	103.0 16	82.8 22	71.2 27	58.2 33	40.3 34
1926	411.0 24	228.0 29	160.0 31	129.0 30	102.0 30	81.9 30	70.7 32	71.6 25	64.5 24	47.1 25
1927	261.0 41	175.0 40	129.0 40	88.4 41	72.6 40	68.2 37	64.3 35	63.6 35	58.6 32	52.2 17
1928	1150.0 1	657.0 2	377.0 3	235.0 4	162.0 5	137.0 3	115.0 7	99.8 7	92.3 5	85.9 1
1929	480.0 18	223.0 31	171.0 29	140.0 24	122.0 18	96.1 19	96.6 14	85.2 16	69.5 19	47.2 24
1930	261.0 42	157.0 44	111.0 45	79.7 44	65.2 43	56.7 44	52.2 43	50.8 41	46.6 40	33.6 40
1931	306.0 37	206.0 36	158.0 32	104.0 36	67.8 42	58.7 41	56.1 38	57.3 38	51.3 38	36.2 39
1932	337.0 35	194.0 38	139.0 36	99.7 37	80.5 38	60.0 40	50.7 45	49.3 44	41.2 44	26.8 45
1933	1050.0 2	546.0 4	285.0 7	182.0 10	138.0 10	113.0 12	99.8 13	88.0 13	84.9 8	67.2 3
1934	614.0 13	334.0 15	176.0 27	119.0 33	105.0 29	89.9 24	82.4 24	71.8 24	61.6 30	48.8 20
1935	318.0 36	225.0 30	131.0 38	98.0 38	87.8 37	76.1 33	65.1 34	65.9 33	63.3 26	48.0 22
1936	1010.0 4	718.0 1	420.0 2	332.0 1	251.0 1	173.0 1	131.0 2	119.0 2	96.1 3	59.0 7
1937	350.0 33	167.0 42	122.0 41	111.0 35	90.1 34	78.7 31	71.8 31	71.5 26	65.1 22	43.9 31
1938	676.0 10	484.0 7	260.0 9	141.0 22	90.1 35	68.7 36	69.7 33	63.3 36	59.8 31	54.8 13
1939	360.0 31	271.0 20	185.0 25	148.0 19	135.0 11	131.0 5	127.0 4	109.0 4	93.1 4	57.6 8
1940	1030.0 3	423.0 9	231.0 12	149.0 18	126.0 16	109.0 14	102.0 12	90.2 12	71.4 16	45.7 29
1941	367.0 29	199.0 37	114.0 44	84.9 43	79.4 39	69.7 35	62.9 36	64.1 34	58.1 34	39.7 35
1942	756.0 9	504.0 6	429.0 1	281.0 2	163.0 4	111.0 13	82.5 23	67.1 31	62.5 28	47.3 23
1943	400.0 26	300.0 18	204.0 20	132.0 28	99.8 31	90.7 22	86.9 19	86.0 14	76.0 13	56.4 12
1944	403.0 25	212.0 34	154.0 33	130.0 29	114.0 24	108.0 15	92.0 17	79.8 19	64.1 25	44.7 30
1945	340.0 34	220.0 32	174.0 28	154.0 15	125.0 17	89.3 25	93.2 15	82.4 18	71.9 15	53.2 15
1946	413.0 22	258.0 26	210.0 16	145.0 20	131.0 14	88.5 27	76.9 27	71.1 28	70.1 17	56.8 11
1947	380.0 27	244.0 27	170.0 30	135.0 27	114.0 25	95.8 20	92.7 16	85.5 15	70.0 18	46.6 27
1948	432.0 19	260.0 24	191.0 23	152.0 17	139.0 9	121.0 11	112.0 8	103.0 6	84.3 9	60.4 6
1949	866.0 6	572.0 3	308.0 5	235.0 3	165.0 3	126.0 8	106.0 11	97.8 8	78.8 11	48.8 21
1950	236.0 45	154.0 45	116.0 43	90.3 40	69.9 41	57.6 43	52.7 42	50.8 39	44.6 41	32.5 42
1951	580.0 14	369.0 12	273.0 8	189.0 7	144.0 7	122.0 10	110.0 9	99.0 8	89.1 7	60.9 5
1952	859.0 7	520.0 5	318.0 4	234.0 5	158.0 6	129.0 6	128.0 3	113.0 3	112.0 1	81.6 2
1953	521.0 17	319.0 17	243.0 11	210.0 6	173.0 2	150.0 2	132.0 1	123.0 1	107.0 2	65.8 4
1954	197.0 46	123.0 46	95.7 46	73.3 46	62.0 45	51.2 45	51.9 44	46.7 45	41.0 45	31.6 43
1955	811.0 8	405.0 10	297.0 6	186.0 8	109.0 27	71.0 34	62.9 37	62.5 37	57.7 35	46.8 26
1956	527.0 16	342.0 13	210.0 17	137.0 25	116.0 21	97.7 17	87.5 18	79.1 20	68.3 20	54.5 14
1957	357.0 32	260.0 25	198.0 21	141.0 23	108.0 28	83.2 29	75.4 29	70.4 29	62.5 29	42.6 32
1958	647.0 12	323.0 16	205.0 19	156.0 14	134.0 12	126.0 9	118.0 5	107.0 5	92.0 6	57.6 9
1959	292.0 39	170.0 41	120.0 42	78.1 45	63.7 44	58.6 42	53.0 41	49.4 42	48.2 39	38.3 36
1960	430.0 20	336.0 14	225.0 13	164.0 11	115.0 22	90.4 23	85.4 20	83.8 17	74.2 14	57.4 10
1961	372.0 28	268.0 21	214.0 14	163.0 12	141.0 8	135.0 4	117.0 6	97.5 10	76.5 12	52.6 16
1962	449.0 11	380.0 11	212.0 15	137.0 26	117.0 20	97.1 18	78.2 26	67.2 30	55.1 37	36.7 37
1963	248.0 43	193.0 39	149.0 34	119.0 34	92.3 32	65.4 38	54.7 40	49.3 43	44.3 42	32.9 41
1964	247.0 44	158.0 43	129.0 39	122.0 32	110.0 26	88.6 26	78.3 25	77.0 21	63.2 27	40.9 33
1965	533.0 15	265.0 22	147.0 35	86.0 42	61.6 46	47.2 46	42.4 46	37.5 46	33.3 46	23.3 46
1966	258.0 38	216.0 33	134.0 37	95.2 39	88.9 36	63.3 39	55.4 39	50.8 40	41.3 43	30.3 44
1967	416.0 21	264.0 23	191.0 22	142.0 21	115.0 23	87.5 28	83.6 21	76.3 22	64.9 23	50.6 19

MEAN	503.369	304.587	202.385	146.752	114.711	93.922	83.978	76.846	67.222	48.228
VARIANCE	62092.977	19235.949	6065.461	2876.917	1307.578	825.577	594.516	422.926	311.343	163.395
STD DEV	249.185	138.694	77.881	53.637	36.160	28.733	24.383	20.565	17.645	12.783
SKENESS	1.109	1.247	1.244	1.337	1.110	.532	.339	.327	.461	.648
SE OF SKEW	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR	-.276	-.288	-.286	-.214	-.142	-.042	.046	.035	.116	.164
C OF VAR	.495	.455	.385	.365	.315	.306	.290	.268	.262	.265

LOGS

MEAN OF	2.656	2.445	2.278	2.141	2.039	1.953	1.906	1.870	1.813	1.668
VAR OF	.039	.033	.024	.022	.018	.018	.017	.014	.014	.014
STD DEV OF	.198	.181	.155	.148	.134	.134	.129	.119	.116	.117
SKEW OF	.438	.364	.280	.280	-.032	-.090	-.145	-.265	-.251	-.269
SE OF SKEW OF	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR OF	-.289	-.291	-.312	-.223	-.116	-.006	.052	.031	.103	.179
C OF VAR OF	.074	.074	.068	.069	.066	.069	.068	.064	.064	.070

1-3840.00 WANAQUE RIVER AT MONKS, N. J.
SUMMARY DURATION TABLE OF DAILY DISCHARGES

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	12053	100.0	9	7.50	643	10352	85.9	18	59.0	916	5067	42.0	27	460	61	140	1.1
1	1.20	11	12053	100.0	10	9.40	660	9709	80.6	19	74.0	864	4151	34.4	28	580	44	79	.6
2	1.50	10	12042	99.9	11	12.00	354	9049	75.1	20	93.0	938	3287	27.3	29	730	16	35	.2
3	1.90	11	12032	99.8	12	15.00	376	8695	72.1	21	120.0	670	2349	19.5	30	920	10	19	.1
4	2.40	14	12021	99.7	13	19.00	420	8319	69.0	22	150.0	559	1679	13.9	31	1200	3	9	.0
5	3.20	90	12007	99.6	14	24.00	544	7899	65.5	23	190.0	347	1120	9.3	32	1500	3	6	.0
6	3.80	212	11917	98.9	15	30.00	598	7355	61.0	24	230.0	306	773	6.4	33	1800	1	3	.0
7	4.70	536	11705	97.1	16	37.00	824	6757	56.1	25	290.0	226	467	3.9	34	2300	2	2	.0
8	6.00	767	11119	92.3	17	47.00	866	5933	49.2	26	370.0	101	241	2.0					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

WANAQUE RIVER AT MONKS, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1935	5.1 13	5.1 16	5.6 20	6.1 19	6.6 16	8.8 18	9.5 18	15.0 19	20.6 14	81.3 20
1936	3.9 7	3.9 6	4.4 8	5.5 13	6.7 17	7.6 16	7.4 14	7.9 10	9.6 5	68.8 13
1937	7.5 27	7.5 26	8.3 27	10.2 28	13.9 28	24.5 28	26.3 24	29.5 25	46.9 24	85.2 27
1938	9.7 29	9.9 29	10.7 29	11.1 29	14.4 29	34.9 30	69.1 32	70.4 31	90.6 32	111.0 29
1939	5.0 14	5.0 13	5.0 12	5.2 10	6.7 18	7.0 15	8.5 16	8.9 13	9.7 6	52.7 6
1940	6.9 23	6.9 24	7.0 24	7.3 23	10.4 25	23.2 26	41.6 27	43.0 26	58.7 26	97.9 24
1941	7.8 23	8.1 28	8.4 28	8.7 27	8.9 22	9.6 20	10.0 19	10.3 14	12.7 12	51.1 5
1942	11.6 30	13.7 30	21.2 32	21.8 31	29.4 32	43.1 31	50.5 30	55.9 30	71.6 29	100.0 26
1943	6.8 24	7.2 25	8.0 25	8.6 26	8.9 23	9.1 19	9.3 17	10.4 16	27.1 17	54.7 7
1944	4.4 11	4.5 11	4.7 11	4.9 9	5.3 9	5.5 8	6.5 9	6.8 6	12.1 10	70.1 15
1945	14.7 32	15.6 31	17.3 30	20.2 30	27.7 31	54.1 32	58.9 31	74.0 32	94.7 31	105.0 28
1946	4.8 12	5.1 14	5.2 14	6.2 20	8.2 21	16.9 24	28.3 25	27.4 23	33.0 20	64.8 11
1947	4.8 13	4.8 12	5.1 13	5.3 11	5.8 12	6.8 13	10.4 20	24.5 22	40.5 23	87.4 23
1948	4.1 9	4.1 8	4.1 6	4.6 8	5.0 8	5.6 9	5.8 6	6.3 5	12.1 11	79.0 18
1949	4.1 9	4.1 9	4.1 7	4.5 6	4.7 6	4.8 6	5.0 2	5.1 2	5.6 1	47.8 3
1950	4.1 10	4.3 10	4.5 9	4.5 7	4.9 7	5.2 7	5.5 4	7.9 11	31.8 19	99.0 25
1951	5.6 21	5.6 21	6.0 21	7.1 21	11.7 27	21.0 25	45.0 28	49.0 28	50.7 25	112.0 30
1952	5.1 15	5.1 15	5.3 15	5.8 17	7.9 20	14.9 22	46.4 29	49.2 29	70.6 27	130.0 32
1953	6.4 23	6.7 23	6.9 23	7.3 22	7.3 19	7.7 17	7.9 15	8.2 12	9.7 7	58.1 8
1954	5.1 16	5.2 17	5.4 16	5.5 14	5.7 11	6.0 11	6.9 11	10.3 15	21.7 15	69.1 14
1955	5.1 17	5.2 18	5.4 17	5.7 15	6.3 15	13.8 21	14.4 21	23.4 21	84.2 30	115.0 31
1956	6.0 22	6.2 22	6.6 22	7.8 24	10.2 24	23.6 27	19.7 23	29.2 24	38.7 27	80.3 19
1957	3.3 3	3.3 3	3.3 3	3.5 3	3.6 2	3.8 2	4.1 1	4.3 1	6.0 2	82.4 21
1958	3.3 4	3.3 4	3.4 4	3.5 4	3.9 3	4.1 3	6.9 12	11.9 18	34.2 21	75.0 16
1959	7.5 26	7.7 27	8.1 26	8.4 25	11.1 26	16.2 23	18.6 22	19.6 20	29.1 18	77.6 17
1960	14.0 31	17.0 32	18.3 31	23.1 32	25.2 30	32.6 29	36.8 26	45.7 27	70.7 28	104.0 27
1961	1.2 1	1.3 1	1.6 1	2.1 1	3.0 1	3.6 1	6.3 8	7.3 8	12.9 13	64.7 10
1962	1.3 2	1.5 2	2.7 2	3.4 2	4.5 4	4.7 4	5.6 5	6.2 4	11.6 8	58.5 9
1963	3.6 5	3.7 5	4.5 10	5.4 12	5.6 10	5.9 10	5.9 7	7.3 9	11.8 9	49.6 4
1964	3.6 6	4.0 7	4.0 5	4.1 5	4.7 5	4.8 5	5.2 3	5.7 3	7.8 3	37.9 1
1965	5.2 19	5.4 19	5.5 18	5.8 18	6.1 14	6.9 14	6.9 13	7.1 7	8.6 4	39.4 2
1966	5.4 20	5.5 20	5.6 19	5.7 16	5.9 13	6.3 12	6.6 10	10.8 17	23.9 16	65.1 12
MEAN	5.844	6.141	6.756	7.466	9.069	13.831	18.619	21.828	33.109	77.328
VARIANCE	9.375	12.557	19.482	25.622	44.207	156.911	336.757	403.481	695.167	563.182
STD DEV	3.062	3.544	4.414	5.062	6.649	12.526	18.351	20.087	26.366	23.731
SKEWNESS	1.467	1.775	2.154	2.217	2.124	1.742	1.405	1.312	.900	.317
SE OF SKEW	.414	.414	.414	.414	.414	.414	.414	.414	.414	.414
SER CORR	.071	.048	.047	-.000	-.007	-.028	.026	-.042	-.108	.058
C OF VAR	.524	.577	.653	.678	.733	.906	.986	.920	.796	.307

LOGS

MEAN OF	.711	.728	.765	.807	.880	1.004	1.096	1.177	1.375	1.868
VAR OF	.054	.055	.053	.052	.060	.112	.143	.140	.138	.019
STD DEV OF	.231	.235	.230	.228	.245	.335	.378	.375	.372	.138
SKEW OF	-.643	-.263	.511	.825	.944	.645	.704	.466	.018	-.264
SE OF SKEW OF	.414	.414	.414	.414	.414	.414	.414	.414	.414	.414
SER CORR OF	.241	.201	.119	.067	.094	.093	.147	.065	-.040	.130
C OF VAR OF	.325	.322	.300	.282	.278	.333	.344	.318	.271	.074

1-3840.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MANAQUE RIVER AT MONKS, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1935	330.0 31	297.0 31	249.0 29	165.0 33	128.0 33	116.0 32	99.0 32	103.0 29	93.2 28	62.6 22
1936	1760.0 4	1280.0 4	887.0 4	712.0 2	453.0 1	288.0 1	211.0 6	190.0 4	156.0 6	85.1 10
1937	686.0 13	558.0 14	373.0 19	258.0 21	192.0 24	184.0 15	169.0 11	157.0 11	141.0 9	82.1 14
1938	1050.0 6	829.0 7	515.0 9	299.0 13	250.0 11	175.0 17	151.0 16	134.0 17	115.0 18	106.0 5
1939	711.0 11	539.0 15	424.0 15	279.0 19	221.0 16	201.0 11	184.0 9	161.0 9	143.0 7	81.9 16
1940	690.0 12	595.0 11	453.0 12	402.0 7	363.0 4	272.0 3	227.0 3	185.0 5	139.0 11	82.3 12
1941	375.0 25	318.0 27	241.0 32	182.0 30	140.0 31	118.0 30	103.0 29	105.0 28	99.0 25	59.1 24
1942	614.0 16	491.0 20	267.0 25	228.0 26	198.0 21	141.0 25	122.0 26	113.0 25	94.7 27	71.4 20
1943	592.0 18	527.0 17	389.0 17	287.0 16	185.0 27	164.0 19	142.0 19	148.0 13	128.0 13	82.3 13
1944	476.0 22	377.0 24	295.0 24	239.0 23	194.0 22	187.0 14	153.0 15	128.0 19	105.0 20	61.6 23
1945	740.0 10	674.0 10	491.0 11	323.0 12	245.0 13	162.0 21	168.0 13	144.0 15	134.0 12	99.5 7
1946	521.0 21	452.0 21	342.0 22	282.0 17	213.0 19	192.0 13	145.0 17	128.0 20	104.0 21	81.2 17
1947	611.0 17	507.0 19	369.0 20	235.0 25	227.0 15	183.0 16	169.0 12	147.0 14	124.0 14	78.3 19
1948	589.0 19	527.0 18	492.0 10	352.0 10	246.0 12	193.0 12	167.0 14	151.0 12	118.0 16	76.5 19
1949	1410.0 5	1100.0 5	722.0 5	538.0 5	328.0 6	228.0 8	177.0 10	160.0 10	120.0 15	63.2 21
1950	447.0 23	430.0 22	373.0 18	277.0 20	217.0 17	156.0 22	139.0 20	128.0 21	103.0 22	58.0 25
1951	2000.0 3	1350.0 3	913.0 3	543.0 4	353.0 5	257.0 6	231.0 2	210.0 2	184.0 3	114.0 3
1952	1000.0 7	836.0 6	566.0 6	361.0 9	316.0 7	258.0 5	246.0 1	202.0 3	189.0 1	134.0 1
1953	650.0 15	582.0 12	420.0 16	289.0 15	254.0 10	207.0 9	186.0 8	173.0 7	173.0 4	93.1 8
1954	347.0 28	305.0 29	252.0 28	203.0 28	164.0 29	118.0 31	126.0 24	113.0 26	96.3 26	53.3 30
1955	2990.0 1	1780.0 1	1030.0 2	735.0 1	387.0 3	201.0 10	138.0 21	112.0 27	106.0 19	89.0 9
1956	2300.0 2	1750.0 2	1070.0 1	597.0 3	419.0 2	287.0 2	203.0 7	167.0 4	156.0 5	114.0 2
1957	531.0 20	537.0 16	437.0 14	290.0 14	192.0 23	146.0 24	125.0 25	118.0 24	102.0 23	56.0 27
1958	918.0 8	715.0 9	550.0 8	402.0 8	286.0 9	253.0 7	220.0 5	224.0 1	188.0 2	100.0 6
1959	310.0 33	288.0 33	220.0 33	167.0 32	143.0 30	123.0 28	102.0 30	87.9 31	87.1 31	57.8 26
1960	680.0 14	569.0 13	449.0 13	340.0 11	209.0 20	164.0 20	144.0 18	142.0 16	141.0 10	112.0 4
1961	872.0 9	728.0 8	554.0 7	409.0 6	302.0 8	261.0 4	221.0 4	184.0 6	142.0 8	82.0 15
1962	428.0 24	410.0 23	351.0 21	279.0 18	235.0 14	168.0 18	127.0 23	120.0 23	91.5 29	48.9 31
1963	373.0 26	344.0 25	261.0 26	239.0 24	186.0 26	118.0 29	99.7 31	91.5 30	90.2 30	53.8 29
1964	332.0 30	299.0 30	244.0 31	195.0 29	176.0 28	130.0 26	121.0 27	123.0 22	101.0 24	55.7 28
1965	326.0 32	292.0 32	248.0 30	174.0 31	133.0 32	96.5 33	82.0 33	71.3 33	53.7 33	30.4 33
1966	366.0 27	316.0 28	257.0 27	210.0 27	188.0 25	128.0 27	103.0 28	87.8 32	72.1 32	41.6 32
1967	344.0 29	324.0 26	313.0 23	251.0 22	217.0 18	153.0 23	138.0 22	131.0 18	117.0 17	84.5 11
MEAN	797.848	634.364	455.061	325.364	241.394	182.682	155.718	140.439	121.433	77.370
VARIANCE	378427.687	157345.500	52998.656	21791.523	6905.344	2987.014	1937.187	1383.774	1088.923	557.402
STD DEV	615.165	396.668	230.214	147.620	83.098	54.654	44.013	37.199	32.999	23.609
SKENNESS	2.075	1.749	1.446	1.475	.944	.477	.399	.376	.442	.334
SE OF SKEW	.409	.409	.409	.409	.409	.409	.409	.409	.409	.409
SER CORR	.173	.185	.180	.014	-.086	-.012	.112	.065	.169	.193
C OF VAR	.771	.625	.506	.454	.344	.299	.283	.265	.272	.305

LOGS

MEAN OF	2.814	2.739	2.613	2.476	2.360	2.243	2.175	2.132	2.068	1.868
VAR OF	.068	.051	.037	.030	.020	.017	.015	.014	.015	.020
STD DEV OF	.261	.226	.193	.173	.142	.130	.124	.118	.121	.140
SKEW OF	.898	.763	.634	.657	.286	.009	-.090	-.249	-.364	-.513
SE OF SKEW OF	.409	.409	.409	.409	.409	.409	.409	.409	.409	.409
SER CORR OF	.119	.143	.173	.005	-.094	.053	.150	.108	.203	.246
C OF VAR OF	.093	.082	.074	.070	.060	.058	.057	.055	.059	.075

STATISTICS OF MONTHLY MEANS, 1935-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	36.36	63.99	4.246	1.760	3.914	.082
NOV	73.56	59.38	.3750	.8071	7.917	.521
DEC	95.85	58.32	.3634	.6085	10.32	.254
JAN	97.71	54.12	1.025	.5539	10.52	.567
FEB	95.85	39.93	.8289	.4166	10.32	.230
MAR	162.0	70.23	1.263	.4334	17.44	-.136
APR	137.1	71.77	.5835	.5235	14.75	.347
MAY	81.54	46.92	.6541	.5754	8.776	.206
JUN	44.74	37.88	1.594	.8467	4.815	.394
JUL	34.46	41.67	2.503	1.209	3.709	.569
AUG	38.69	68.42	3.765	1.768	4.164	.164
SEP	31.26	42.68	1.931	1.365	3.364	.311

STATISTICS OF LOGS OF MONTHLY MEANS, 1935-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	1.236	.4992	.7030	.4040	6.190	.582
NOV	1.642	.5150	-.4568	.3136	8.226	.618
DEC	1.869	.3618	-1.015	.1935	9.365	.410
JAN	1.927	.2402	.0294	.1246	9.652	.637
FEB	1.945	.1833	-.1689	.0942	9.745	.192
MAR	2.172	.1867	-.1401	.0860	10.88	-.210
APR	2.074	.2462	-.2739	.1187	10.39	.322
MAY	1.838	.2623	-.0428	.1428	9.207	.232
JUN	1.511	.3579	.0681	.2368	7.572	.484
JUL	1.314	.4336	.4473	.3299	6.584	.840
AUG	1.230	.5121	.9523	.4164	6.161	.589
SEP	1.204	.4746	.8492	.3943	6.030	.695

1-3845.00 RINGWOOD CREEK NEAR WANAQUE, N. J.

Location.--Lat 41°07'36", long 74°15'52", 500 ft upstream from Wanaque Reservoir.

Drainage area.--19.1 sq mi.

Remarks.--Slight regulation; probably not significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1935						5	17	9	8	7	5	17	15	21	16	41	56	41	59	30	6	5	7													10273.6
1936			6	3	4	4	51	30	11	13	9	12	9	10	7	22	31	37	30	21	18	11	12	7	3	3	2	4			1				11847.0	
1937						4	9	7	6	13	28	22	30	23	21	13	28	23	44	49	22	11	7	3											12388.6	
1938										6	13	11	12	14	33	33	55	65	54	29	16	7	7	4				3	2	1					14384.1	
1939						15	13	31	6	5	3	8	9	9	15	40	36	24	25	23	39	26	22	11	4										12657.6	
1940						12	10	10	23	25	19	19	25	29	25	26	10	26	20	19	16	10	15	20	4	1	2									10837.7
1941						4	12	14	8	11	4	17	23	42	20	33	27	46	32	33	27	8	2	2												8054.7
1942						5	9	4	6	13	17	8	8	19	24	45	37	43	32	35	20	19	8	2	2				1						9731.3	
1943				1	5	7	13	10	9	8	3	4	11	8	12	8	7	14	55	62	53	35	21	12	3			2	2							12372.8
1944		3	5	2	3	14	26	10	11	18	9	6	8	24	28	30	22	31	23	21	20	23	12	7						1					9535.4	
1945					3	18	12	1	2	5	2	3	2	5	9	16	42	16	40	40	46	32	30	20	10	5	3			2	1					15443.6
1946										6	4	8	11	10	15	37	55	37	31	32	42	20	23	17	9	4	4									12953.9
1947										1	5	12	3	16	18	37	39	31	23	32	46	28	20	13	5		3	1								11745.6
1948						5	7	7	36	9	8	6	14	6	6	15	35	37	35	24	41	31	17	11	8	3	4									11909.8
1949			3	3	3	15	28	31	22	24	22	32	16	6	4	3	8	24	20	42	27	14	8	5	1	1				2			1			9590.3
1950						8	30	34	22	22	21	6	11	25	22	36	31	33	15	15	22	3	7	1	1											8312.4
1951										1	8	17	16	7	18	16	17	27	24	16	16	31	29	45	37	15	13	3	4	2	2		1			16039.2
1952										2	11	11	15	23	20	14	12	31	31	52	50	37	24	14	5	7				5	2					14903.6
1953						13	27	10	11	10	23	28	21	10	10	9	4	16	22	30	45	27	18	15	7	6	2	1								14941.0
1954					5	19	5	26	33	14	23	17	9	21	21	26	33	17	24	29	20	12	5	4	2											7536.5
1955						3	8	10	25	14	18	33	32	29	24	43	26	37	26	19	6	4	2	3					2				1			11956.9
1956										3	2	12	10	36	38	24	33	27	25	53	34	29	18	12	5	1	1				1	1	1			16145.6
1957			7	1	7	12	27	11	22	15	13	14	14	10	16	24	21	46	30	30	20	11	4	6	2	1				1						8708.5
1958			1	1	7	7	11	19	15	26	16	13	16	19	22	9	20	24	17	16	26	22	13	30	6	6	1	1				1				14941.3
1959						9	4	6	4	23	26	39	36	45	31	31	23	45	32	5	4	2														8601.7
1960										4	5	7	15	22	36	60	56	58	36	23	16	18	4	3	3											16690.5
1961						4	6	15	7	8	12	11	18	32	44	46	36	20	18	19	28	18	18	1	2	1						1				13085.4
1962						2	23	27	26	28	12	18	41	19	12	23	27	12	23	15	13	12	9	8	11	2	2									7471.7
1963			1	1	2	2	4	6	12	12	12	5	10	4	15	13	23	39	52	38	42	15	16	10	10	8	1									8850.3
1964					29	2		5	33	15	8	6	21	5	14	11	12	20	30	24	30	21	21	28	16	10	5									8191.9
1965						14	78	29	27	17	7	12	11	22	21	23	24	35	20	9	8	3	3	1	1											4823.5
1966			11	9	3	4	10	22	14	8	13	20	17	9	34	25	47	36	18	27	11	8	5	10	3	1										6403.2
1967												3	9	26	26	22	18	22	50	69	42	31	27	12	9	4										13027.2

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1	12053	100.0	9	2.00	390	10780	89.4	18	22.0	1130	5621	46.6	27	250	21	61	.5
1	0.10	4	12052	100.0	10	2.60	346	10390	86.2	19	29.0	1033	4491	37.3	28	330	27	40	.3
2	0.20	47	12048	100.0	11	3.40	338	10044	83.3	20	38.0	1102	3458	28.7	29	440	6	13	.1
3	0.30	33	12001	99.6	12	4.40	488	9706	80.5	21	50.0	892	2356	19.5	30	570	5	7	.0
4	0.50	26	11968	99.3	13	5.80	453	9218	76.5	22	66.0	603	1464	12.1	31	750	2	2	.0
5	0.60	92	11942	99.1	14	7.60	638	8765	72.7	23	86.0	377	861	7.1	32				
6	0.80	260	11850	98.3	15	9.90	724	8127	67.4	24	110.0	290	489	4.1	33				
7	1.10	392	11590	96.2	16	13.00	915	7403	61.4	25	150.0	80	199	1.7	34				
8	1.50	418	11198	92.9	17	17.00	867	6488	53.8	26	190.0	58	119	1.0					

1-3845.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

RINGWOOD CREEK NEAR WANAQUE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1935	1.2 17	1.2 17	1.3 16	1.3 16	1.4 13	2.9 20	3.1 16	5.6 18	8.7 15	31.2 17
1936	0.3 5	0.3 5	0.4 5	0.7 8	1.2 12	1.6 11	1.8 10	2.3 8	3.9 6	28.7 14
1937	1.1 16	1.1 16	1.4 17	2.2 22	5.6 26	8.3 24	11.2 26	11.6 24	18.0 24	34.6 22
1938	1.8 24	5.2 30	5.7 29	8.1 29	10.7 30	17.7 31	25.9 31	29.0 31	33.2 31	41.3 27
1939	0.9 15	0.9 14	0.9 14	0.9 12	1.1 11	1.3 8	1.7 8	2.7 10	3.6 5	21.0 6
1940	2.4 26	2.5 25	2.7 25	3.1 25	4.5 25	9.2 27	10.4 24	10.8 22	18.6 25	39.2 23
1941	0.7 13	0.7 13	0.7 9	0.8 9	1.0 8	1.6 12	2.3 14	2.8 11	5.1 5	15.3 4
1942	4.2 30	4.0 27	6.6 30	9.0 30	10.5 29	15.3 30	19.4 30	21.5 30	27.9 28	36.5 26
1943	0.4 6	0.5 8	0.5 6	0.6 5	0.8 5	1.1 6	1.8 9	3.6 13	11.0 17	23.6 8
1944	0.1 2	0.1 1	0.2 1	0.3 3	0.6 2	1.2 7	1.2 7	1.6 7	4.2 9	28.3 14
1945	6.8 32	7.5 32	9.0 31	9.6 31	13.7 32	23.9 32	27.7 32	33.3 32	39.6 32	46.7 31
1946	2.1 25	2.1 24	2.3 24	2.8 24	4.4 24	8.8 26	10.5 25	10.1 21	13.2 19	26.9 17
1947	1.6 22	1.6 21	1.6 19	1.7 17	1.8 16	2.8 19	5.0 20	11.4 21	16.6 22	30.5 24
1948	0.6 11	0.6 9	0.7 10	0.9 10	1.1 9	1.4 9	1.9 11	2.8 12	5.7 10	33.3 21
1949	0.4 7	0.4 6	0.5 7	0.7 8	1.1 10	1.5 10	1.6 7	1.8 5	2.3 1	19.1 3
1950	1.4 19	1.6 22	1.8 22	2.0 21	2.2 20	2.7 18	3.1 15	3.8 15	12.6 18	35.4 25
1951	3.2 29	3.6 28	3.7 28	4.2 27	6.3 27	8.6 25	18.7 29	20.0 29	26.7 28	45.8 35
1952	3.1 28	3.3 27	3.4 26	3.6 26	4.3 23	6.7 21	16.6 27	17.7 27	26.2 27	56.5 32
1953	0.6 12	0.7 10	0.8 11	0.9 11	0.9 6	1.0 3	1.3 4	1.7 3	3.3 4	24.2 7
1954	1.4 20	1.4 19	1.6 20	1.8 19	2.1 18	2.4 15	3.4 17	4.2 17	8.3 14	27.2 11
1955	1.8 23	1.9 23	2.0 23	2.3 23	3.8 21	8.0 23	8.4 22	11.8 25	20.3 30	41.6 28
1956	2.8 27	2.9 26	3.7 27	5.2 28	6.4 28	10.5 28	9.6 23	14.2 26	17.7 23	33.2 20
1957	0.4 8	0.4 7	0.5 8	0.7 7	1.0 7	1.1 4	1.4 5	1.7 4	2.9 3	31.1 19
1958	0.6 9	0.7 11	0.8 12	1.0 13	2.2 14	2.4 16	3.8 19	5.8 19	13.4 20	30.3 15
1959	1.5 21	1.5 20	1.7 21	2.0 20	4.1 22	6.8 22	7.8 21	9.2 20	13.4 21	37.6 14
1960	5.4 31	7.1 31	9.4 32	12.3 32	13.4 31	14.9 29	16.8 28	19.5 28	28.1 29	43.4 23
1961	1.3 18	1.3 18	1.5 18	1.7 18	1.9 17	2.4 17	3.5 18	4.1 16	6.0 12	27.0 13
1962	0.6 10	0.7 12	0.9 13	1.2 14	1.6 15	2.1 13	2.0 13	2.6 9	5.9 11	25.4 9
1963	0.0 1	0.1 2	0.3 4	0.5 4	0.7 3	1.1 5	1.2 3	2.0 6	7.2 13	20.5 5
1964	0.2 3	0.2 3	0.2 2	0.2 1	0.2 1	0.7 1	0.9 1	1.1 1	2.3 2	17.1 2
1965	0.8 14	1.1 15	1.2 15	1.3 15	1.5 14	2.1 14	1.9 12	2.3 7	4.0 7	16.6 1
1966	0.2 4	0.2 4	0.2 3	0.3 2	0.7 4	0.9 2	1.4 6	3.7 14	10.3 16	27.8 12

	1 [†]	3	7	14	30	60	90	120	183	ANNUAL
MEAN	1.616	1.822	2.131	2.622	3.525	5.406	7.103	8.628	13.159	31.391
VARIANCE	2.524	3.768	5.780	9.146	13.979	33.666	57.904	71.909	102.235	86.992
STD DEV	1.589	1.941	2.404	3.024	3.739	5.802	7.609	8.480	10.111	9.327
SKEWNESS	1.833	1.733	1.956	1.963	1.650	1.622	1.413	1.432	.992	.429
SE OF SKEW	.421	.414	.414	.414	.414	.414	.414	.414	.414	.414
SER CORR	-.062	-.099	-.124	-.141	-.068	-.040	.000	-.054	-.104	.064
C OF VAR	.983	1.065	1.128	1.153	1.061	1.073	1.071	.983	.768	.297

LOGS

MEAN OF	.015	.024	.099	.192	.334	.509	.618	.738	.985	1.478
VAR OF	.193	.244	.214	.202	.196	.198	.209	.181	.131	.017
STD DEV OF	.440	.494	.463	.449	.443	.445	.457	.426	.362	.132
SKEW OF	-.254	-.289	.064	.203	.102	.404	.395	.241	-.103	-.203
SE OF SKEW OF	.421	.414	.414	.414	.414	.414	.414	.414	.414	.414
SER CORR OF	.013	.081	.023	.002	.068	.020	.089	.043	-.077	.098
C OF VAR OF	29.137	20.516	4.689	2.345	1.326	.873	.740	.577	.368	.089

† Zero flow values excluded in computation of statistics.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1 [†]	3	7	14	30	60	90	120	183	ANNUAL
100.00	-	.059	.111	.163	.217	.406	.487	.667	1.302	14.152
33.00	0	-	-	-	-	-	-	-	-	-
20.00	.11	.149	.222	.301	.415	.680	.832	1.171	2.390	17.910
10.00	.21	.239	.323	.423	.591	.917	1.133	1.603	3.285	20.222
5.00	.38	.414	.510	.645	.910	1.346	1.686	2.377	4.804	23.339
2.00	.98	1.116	1.241	1.501	2.121	3.017	3.870	5.262	9.788	30.356
1.25	2.20	2.786	3.066	3.671	5.063	7.454	9.801	12.320	19.543	38.913
1.11	3.46	4.360	4.951	5.976	8.058	12.451	16.587	19.659	27.829	44.054
1.04	5.45	6.876	8.295	10.206	13.326	22.199	29.992	32.927	40.326	50.074
1.02	7.10	9.118	11.607	14.544	18.520	32.819	44.748	46.394	51.077	54.269
1.01	8.90	11.661	15.731	20.117	24.970	47.205	64.897	63.569	63.039	58.252

† Zero flow values included in computation of curve.

1-3845.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

RINGWOOD CREEK NEAR WANAQUE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1935	138.0 30	120.0 31	107.0 28	76.7 31	55.1 31	48.9 30	45.1 27	44.8 25	41.7 22	28.1 20
1936	713.0 3	489.0 2	302.0 3	264.0 1	180.0 1	118.0 1	86.3 6	77.1 6	60.5 6	32.4 17
1937	410.0 11	227.0 15	141.0 20	95.0 25	76.9 25	69.4 18	66.4 14	62.2 12	57.4 10	33.9 14
1938	473.0 9	310.0 10	183.0 11	101.0 21	74.2 26	57.8 24	59.5 18	52.4 20	45.7 18	39.4 8
1939	346.0 13	205.0 18	148.0 18	115.0 17	100.0 15	84.7 11	75.8 8	66.6 9	59.6 7	34.7 12
1940	302.0 17	205.0 19	161.0 16	156.0 10	132.0 4	102.0 6	87.6 5	71.8 7	52.5 12	29.6 19
1941	126.0 31	91.3 33	71.7 32	56.7 33	47.4 33	44.2 32	37.9 32	37.2 30	36.0 30	22.1 29
1942	259.0 21	172.0 22	97.0 30	88.7 26	78.1 23	54.6 26	47.3 26	42.2 28	36.2 29	26.7 21
1943	260.0 20	212.0 17	139.0 22	96.8 24	73.2 27	64.2 20	58.1 20	59.2 16	51.9 15	33.9 13
1944	337.0 15	186.0 21	115.0 24	97.4 23	83.3 20	77.6 13	63.9 15	53.6 19	44.2 20	26.1 23
1945	515.0 7	355.0 8	268.0 5	165.0 8	105.0 13	69.6 17	70.1 12	60.4 13	59.4 8	42.3 5
1946	249.0 22	160.0 24	126.0 23	108.0 19	84.4 19	80.5 12	61.9 17	54.1 18	44.9 19	35.5 11
1947	293.0 18	217.0 16	144.0 19	97.9 22	92.9 16	74.2 15	70.3 11	62.5 11	52.0 14	32.2 18
1948	335.0 16	239.0 13	219.0 10	161.0 9	115.0 11	86.5 9	75.3 9	68.1 8	52.5 13	32.5 15
1949	615.0 6	403.0 5	231.0 8	183.0 5	119.0 8	86.4 10	69.5 13	64.4 10	49.6 17	26.3 27
1950	214.0 24	169.0 23	140.0 21	109.0 18	85.7 17	60.6 23	57.0 21	51.6 22	40.2 23	22.8 27
1951	641.0 4	455.0 4	310.0 2	196.0 4	130.0 6	97.0 7	88.7 4	80.5 3	69.6 4	43.9 4
1952	467.0 10	385.0 6	230.0 9	154.0 11	138.0 3	110.0 2	104.0 1	86.4 2	80.3 1	54.4 1
1953	346.0 14	280.0 11	181.0 12	143.0 12	118.0 9	95.9 8	85.7 7	79.4 5	76.0 2	40.9 6
1954	165.0 29	147.0 26	111.0 25	88.1 27	67.9 28	48.2 31	49.9 25	43.7 26	37.1 28	20.6 30
1955	756.0 1	478.0 3	289.0 4	210.0 3	115.0 10	61.4 22	44.0 28	43.1 27	38.9 25	32.5 16
1956	750.0 2	617.0 1	382.0 1	218.0 2	152.0 2	105.0 4	74.7 10	59.7 14	57.7 9	44.1 3
1957	354.0 12	239.0 12	179.0 13	119.0 15	81.2 22	62.4 21	51.7 23	48.3 24	42.9 21	23.9 25
1958	617.0 5	359.0 7	236.0 6	167.0 7	120.0 7	104.0 5	92.0 3	90.4 1	75.9 3	40.9 7
1959	124.0 33	94.3 32	68.7 33	59.5 32	53.6 32	50.3 29	41.4 31	35.6 32	34.1 31	23.6 26
1960	293.0 19	236.0 14	179.0 14	132.0 13	83.1 21	65.8 19	58.2 19	58.4 17	56.9 11	45.6 2
1961	508.0 8	335.0 9	235.0 7	175.0 6	131.0 5	110.0 3	95.1 2	80.0 4	60.6 5	35.9 9
1962	224.0 23	203.0 20	163.0 15	126.0 14	106.0 12	74.4 14	55.4 22	51.8 21	37.9 27	20.5 31
1963	140.0 25	134.0 29	111.0 26	107.0 20	84.5 18	52.6 28	42.7 30	39.6 29	38.6 26	24.2 24
1964	126.0 32	122.0 30	94.9 31	81.1 29	64.6 29	56.0 25	50.6 24	51.2 23	40.0 24	22.4 28
1965	178.0 27	142.0 27	109.0 27	77.7 30	60.5 30	43.1 33	36.9 33	31.3 33	24.2 33	13.2 33
1966	175.0 28	134.0 28	105.0 29	86.7 28	77.7 24	53.1 27	43.2 29	36.7 31	29.7 32	17.5 32
1967	179.0 26	158.0 25	151.0 17	116.0 16	101.0 14	70.6 16	63.8 16	59.3 15	51.0 16	35.7 10
MEAN	353.576	250.866	173.554	128.100	96.554	73.909	63.939	57.685	49.567	31.464
VARIANCE	37066.469	16781.852	5723.594	2408.459	936.518	465.850	330.475	240.588	184.542	86.092
STD DEV	192.527	129.545	75.654	49.076	30.603	21.584	18.179	15.511	13.585	9.279
SKENNESS	.758	1.083	.925	.881	.654	.474	.424	.339	.508	.300
SE OF SKEW	.409	.409	.409	.409	.409	.409	.409	.409	.409	.409
SER CORR	.090	.121	.122	-.037	-.094	-.030	.121	.089	.181	.207
C OF VAR	.545	.516	.436	.383	.317	.292	.284	.269	.274	.295

LOGS

MEAN OF	2.485	2.347	2.201	2.078	1.964	1.851	1.789	1.746	1.679	1.478
VAR OF	.058	.046	.034	.026	.019	.016	.015	.014	.014	.018
STD DEV OF	.241	.214	.185	.162	.138	.126	.124	.119	.120	.135
SKEW OF	.006	.201	.075	.099	-.067	.089	-.019	-.175	-.167	-.467
SE OF SKEW OF	.409	.409	.409	.409	.409	.409	.409	.409	.409	.409
SER CORR OF	.121	.110	.124	-.018	-.074	.010	.135	.107	.195	.240
C OF VAR OF	.097	.091	.084	.078	.070	.068	.069	.068	.072	.091

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	84.496	76.006	60.381	51.588	43.293	36.792	31.481	28.380	24.256	13.159
1.05	123.061	101.788	79.576	65.445	54.266	44.330	38.349	34.973	29.916	17.382
1.11	150.403	119.649	92.374	74.466	61.127	49.038	42.589	38.970	33.355	19.962
1.25	191.806	146.345	110.863	87.257	70.517	55.497	48.339	44.296	37.945	23.389
2.00	305.610	218.933	158.075	118.950	92.328	70.642	61.529	56.102	48.153	30.823
5.00	487.338	335.242	227.103	163.572	120.281	90.467	78.218	70.254	60.446	39.255
10.00	622.172	422.862	275.297	193.889	137.840	103.206	88.628	78.670	67.784	43.968
25.00	807.502	545.611	338.794	233.055	159.161	118.995	101.220	88.464	76.350	49.154
50.00	955.766	645.850	387.898	262.855	174.515	130.590	110.268	95.259	82.309	52.561
100.00	1112.354	753.691	438.495	293.194	189.484	142.081	119.078	101.694	87.963	55.645

1-3845.00 RINGWOOD CREEK NEAR WANAQUE, N. J.

STATISTICS OF MONTHLY MEANS, 1935-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1935-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	14.08	23.36	4.133	1.658	3.726	.202	.8094	.5473	.2763	.6762	5.336	.687
NOV	27.78	21.18	.3665	.7623	7.350	.585	1.255	.4656	-.5065	.3709	8.276	.696
DEC	38.10	22.59	.3626	.6190	10.08	.354	1.471	.3479	-.7610	.2364	9.700	.534
JAN	37.85	21.38	.7410	.5647	10.01	.618	1.508	.2555	-.0474	.1694	9.942	.662
FEB	38.62	16.22	.7519	.4200	10.22	.350	1.549	.1869	-.2171	.1207	10.21	.345
MAR	66.97	27.94	.9731	.4172	17.72	-.084	1.790	.1811	-.0733	.1012	11.80	-.148
APR	59.04	28.40	.4366	.4810	15.62	.370	1.718	.2264	-.2809	.1318	11.32	.361
MAY	35.99	19.32	.4525	.5368	9.522	.284	1.490	.2497	-.1067	.1676	9.823	.294
JUN	19.59	14.49	1.663	.7397	5.183	.457	1.187	.3103	-.0082	.2614	7.827	.492
JUL	14.39	17.30	2.750	1.202	3.808	.362	.9327	.4540	.0541	.4868	6.149	.779
AUG	14.24	21.96	2.792	1.542	3.767	.283	.7716	.5766	.4569	.7473	5.086	.688
SEP	11.32	15.65	1.999	1.383	2.995	.493	.6865	.5915	.1669	.8616	4.526	.738

1-3850.00 CUPSAW BROOK NEAR WANAQUE, N. J.

Location.--Lat 41°06'32", long 74°15'16", upstream from Wanaque Reservoir.

Drainage area.--4.38 sq mi.

Remarks.--Regulation reduces flood peaks.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS
1936	1	9	75	51			9	5	7	10	16	13	32	21	22	17	17	16	13	8	9	2	4	1	2	3	1			1	1			2871.2
1937			4	43			59	13	25	18	14	7	14	9	14	38	24	22	19	17	11	4	9	6		1		1	1					3132.2
1938			30				4	15	6	14	15	19	14	43	31	39	43	27	26	11	10	5	4	2	5	1	3	1	1	1				3291.9
1939			58	4	35		5	14	4	9	5	17	28	28	14	8	10	8	25	28	20	16	9	7	3	1								3108.9
1940			32	14	13		3	72	26	20	7	13	15	13	11	24	13	19	15	8	14	9	9	6	6		2	1	1					2318.4
1941			15	44	6	16		5	19	14	9	20	25	18	51	18	19	9	15	30	7	23	2	4	1									2030.7
1942			17	3	43	40	19	6	17	11	10	15	17	14	11	11	16	12	12	48	14	15	4	2	1	2	1							2173.3
1943			12	30	23	8	6	13		3	6	11	2	15	13	27	27	16	120	11	7	4	10			1								3010.0
1944			11	19	42	13	67	13	11	5	14	8	17	16	11	15	11	8	11	15	22	17	7	5	3	5								2153.8
1945			1	15	48	3	30	5	7	4	10	11	7	11	11	23	20	21	21	22	21	24	19	11	7	6	2	1	1	1	1	1		4171.3
1946			23	20	29	9	13	3	18	9	8	16	15	18	27	25	18	19	21	15	15	10	7	7	10	5	3	2						2929.6
1947			5	1	7	11	1	16	12	24	28	23	28	20	18	21	35	33	28	17	9	14	7		1	5	1							2978.5
1948			6	12	27	2	21	34	1	6	1	6	8	24	9	23	30	13	27	28	20	14	17	8	7	3	2	1						3141.9
1949			14	85		41	35	3	19	4	8	5	3	22	12	13	14	19	16	20	14	4	4	4	2	1			1	1	1			1943.9
1950			9	36	2	43	40	1	31	4	16	6	10	15	16	28	23	21	18	27	10	4	6	1	1	1		1						1757.0
1951			5	4	33	2	31	15	1	15	7	11	11	14	9	17	13	30	25	22	39	13	18	10	5	8	9	1	1		1	1	1	3714.7
1952			9	12	19	4	17	11		12	4	9	11	6	9	4	9	26	26	21	52	44	14	14	11	9	4	1	4		2	2		4634.0
1953			42	35	31	1	5	5	1	17	3	13	3	5	7	5	12	15	22	20	29	26	17	27	10	1	10	1	2					3514.1
1954			24	34	74	2	12	6		9	1	4	10	20	24	14	20	16	19	17	15	14	8	5	5	4	1							1872.8
1955			24	17	14	5	8	8	6	11	9	27	14	18	13	9	26	25	29	26	20	17	18	6	8		2		1	1		1		2751.7
1956				17	23	6	11	5	12	5	15	20	14	22	19	11	22	27	22	24	26	27	9	14	3	5		2				1		3538.8
1957			50	27	33	24	5	9	1	2	3	16	3	20	12	28	16	19	32	13	19	9	8	6	2	2	5			1				1970.1
1958			15	51	14	11	12	17	3	17	6	12	6	7	8	16	15	17	18	12	11	20	17	23	13	10	5	3	1		2			3751.3
CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
1	0.10	179	8401	100.0	9	1.30	290	5497	65.4	19	11.0	665	2059	24.5	27	94	7	30	.3	28	120	10	23	.2	29	190	6	13	.1	30	190	5	7	.0
2	0.20	267	8222	97.9	10	1.70	254	5207	62.0	10	14.0	417	1394	16.6	28	120	10	23	.2	29	190	6	13	.1	30	190	5	7	.0	31	240	2	2	.0
3	0.20	412	7477	89.0	11	2.20	319	4953	59.0	11	18.0	325	977	11.6	29	150	6	13	.1	30	190	5	7	.0	31	240	2	2	.0	32	240	2	2	.0
4	0.40	399	7065	84.1	12	2.70	349	4634	55.2	12	23.0	234	652	7.8	30	190	5	7	.0	31	240	2	2	.0	32	240	2	2	.0	33	240	2	2	.0
5	0.50	520	5664	79.3	13	3.50	418	4285	51.0	13	29.0	155	418	5.0	31	240	2	2	.0	32	240	2	2	.0	33	240	2	2	.0	34	240	2	2	.0
6	0.70	73	6146	73.7	14	4.40	396	3867	46.0	14	37.0	97	263	3.1	32	240	2	2	.0	33	240	2	2	.0	34	240	2	2	.0	35	240	2	2	.0
7	0.80	420	6073	72.2	15	5.50	474	3471	41.3	15	44.0	86	166	2.0	33	240	2	2	.0	34	240	2	2	.0	35	240	2	2	.0	36	240	2	2	.0
8	1.10	156	5653	67.3	16	7.00	503	2995	35.7	16	59.0	24	80	1.0	34	240	2	2	.0	35	240	2	2	.0	36	240	2	2	.0	37	240	2	2	.0
					17	8.90	433	2492	29.7	17	74.0	26	56	0.7	35	240	2	2	.0	36	240	2	2	.0	37	240	2	2	.0	38	240	2	2	.0

1-3850.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

CUPSAN POND NEAR WANAQUE, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1935	0.4 21	0.4 21	0.4 20	0.4 20	0.5 16	0.7 12	0.6 11	1.0 9	1.5 8	7.3 10
1936	0.3 18	0.3 17	0.4 21	0.4 21	0.4 14	0.5 11	0.5 9	0.7 7	1.1 4	7.3 11
1937	0.5 22	0.5 22	0.5 22	0.6 22	1.0 23	1.8 19	2.1 16	2.7 17	4.1 16	8.4 16
1938	0.6 23	0.6 23	0.6 23	0.6 23	0.7 19	3.4 22	5.0 22	5.5 21	6.7 22	9.7 19
1939	0.3 19	0.3 18	0.3 16	0.3 16	0.3 9	0.4 9	0.4 7	0.9 8	1.5 9	5.5 3
1940	0.3 20	0.3 19	0.3 17	0.3 17	0.7 20	1.4 17	1.5 15	1.6 13	4.7 18	8.9 17
1941	0.1 8	0.1 8	0.1 7	0.2 10	0.3 10	0.5 10	0.8 12	1.3 11	1.9 10	5.2 2
1942	0.1 9	0.3 20	0.3 18	0.4 18	0.6 17	1.3 16	2.2 17	3.0 18	4.0 15	9.2 14
1943	0.1 10	0.1 9	0.1 8	0.2 11	0.3 11	0.3 6	0.6 10	2.2 15	2.5 13	5.8 5
1944	0.1 11	0.1 10	0.1 9	0.2 12	0.2 6	0.4 7	0.5 8	0.4 4	1.1 5	6.8 8
1945	0.1 12	0.1 11	0.1 10	0.1 6	0.9 22	5.9 23	7.3 23	8.9 23	9.7 23	12.0 22
1946	0.2 16	0.2 15	0.2 14	0.3 13	0.4 12	1.2 15	2.5 18	2.7 16	3.3 14	6.4 6
1947	0.2 17	0.2 16	0.3 19	0.4 19	0.5 15	1.5 18	3.3 19	4.4 20	4.5 17	9.7 20
1948	0.0 1	0.0 1	0.0 1	0.1 7	0.1 3	0.2 4	0.3 5	0.4 5	1.1 6	7.7 12
1949	0.1 13	0.1 12	0.1 11	0.1 8	0.2 7	0.2 5	0.2 2	0.3 3	0.3 1	4.2 1
1950	0.1 14	0.1 13	0.2 15	0.2 9	0.3 8	0.4 8	0.4 6	0.5 6	1.4 7	3.2 13
1951	0.0 2	0.0 2	0.1 12	0.3 14	0.7 21	3.1 21	4.4 21	5.6 22	6.2 21	11.1 21
1952	0.0 3	0.0 3	0.0 2	0.0 1	0.6 18	2.4 20	3.8 20	3.9 19	4.9 19	12.2 23
1953	0.0 4	0.0 4	0.0 3	0.0 2	0.0 1	0.1 2	0.1 1	0.1 1	0.3 2	5.6 4
1954	0.0 5	0.0 5	0.0 4	0.0 3	0.1 4	0.1 3	0.2 4	1.1 10	1.9 11	7.2 9
1955	0.0 6	0.0 6	0.0 5	0.0 4	0.1 5	1.0 13	1.1 14	2.1 14	5.6 20	9.3 18
1956	0.2 15	0.2 14	0.2 13	0.3 15	0.4 13	1.0 14	0.9 13	1.4 12	2.3 12	6.8 7
1957	0.0 7	0.0 7	0.0 6	0.0 5	0.0 2	0.0 1	0.1 2	0.1 2	0.4 3	8.3 15

	1 [†]	3 [†]	7 [†]	14 [†]	30 [†]	60 [†]	90	120	183	ANNUAL
MEAN	.231	.244	.253	.300	.443	1.264	1.687	2.209	3.087	7.904
VARIANCE	.025	.024	.024	.022	.067	1.945	3.621	4.837	5.857	4.451
STD DEV	.158	.155	.155	.150	.258	1.395	1.903	2.199	2.420	2.110
SKEWNESS	1.148	.996	.801	.594	.535	2.080	1.580	1.579	1.033	.441
SE OF SKEW	.564	.564	.550	.536	.501	.491	.481	.481	.481	.481
SER CORR	.698	.570	.570	.480	.033	-.043	.042	-.053	-.115	-.186
C OF VAR	.683	.635	.611	.498	.583	1.104	1.128	.996	.784	.267

LOGS

MEAN OF	-.724	-.694	-.677	-.580	-.440	-.133	-.057	.103	.330	.883
VAR OF	.080	.076	.077	.058	.092	.235	.293	.279	.179	.014
STD DEV OF	.282	.276	.277	.241	.303	.485	.541	.528	.423	.118
SKEW OF	.389	.149	.010	-.522	-.640	-.110	-.058	-.577	-.638	-.192
SE OF SKEW OF	.564	.564	.550	.536	.501	.491	.481	.481	.481	.481
SER CORR OF	.713	.494	.408	.408	.153	.110	.115	-.024	.008	-.230
C OF VAR OF	-.390	-.398	-.409	-.416	-.688	-3.646	-9.426	5.142	1.280	.133

† Zero flow values excluded in computation of statistics.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1 [†]	3 [†]	7 [†]	14 [†]	30 [†]	60 [†]	90	120	183	ANNUAL
100.00	-	-	-	-	-	-	.046	.045	.143	3.912
24.00	-	-	-	-	-	0	-	-	-	-
20.00	-	-	-	-	-	.04	.110	.143	.369	4.819
12.00	-	-	-	-	0	-	-	-	-	-
10.00	-	-	-	-	.06	.11	.176	.252	.586	5.368
5.00	-	-	-	-	.15	.24	.308	.478	.986	6.096
4.80	-	-	-	0	-	-	-	-	-	-
4.00	-	-	0	-	-	-	-	-	-	-
3.43	-	0	-	-	-	-	-	-	-	-
3.40	0	-	-	-	-	-	-	-	-	-
2.00	.12	.13	.16	.22	.35	.68	.887	1.423	2.372	7.703
1.25	.25	.29	.31	.38	.63	1.78	2.510	3.592	4.929	9.614
1.11	.37	.40	.43	.48	.81	2.90	4.293	5.477	6.842	10.743
1.04	.55	.58	.61	.65	1.04	4.88	7.573	8.215	9.337	12.050
1.02	.71	.72	.73	.77	1.17	6.87	10.897	10.428	11.184	12.953
1.01	.84	.86	.88	.90	1.29	9.03	15.088	12.730	12.987	13.804

† Zero flow values included in computation of curve.

1-3850.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CHIPSAW BROOK NEAR MANAQUF, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1916	347.0 2	179.0 1	95.6 2	71.9 1	46.6 1	29.3 1	21.2 4	19.1 4	14.7 7	7.8 14
1917	165.0 8	90.7 10	44.0 12	32.8 12	26.4 11	20.7 12	17.9 10	16.3 10	14.7 8	8.6 9
1932	176.0 6	98.0 7	49.6 10	39.4 14	19.9 18	14.6 19	15.6 14	13.6 16	11.4 14	9.0 7
1939	59.0 30	47.7 19	34.1 18	28.3 15	23.6 12	20.8 11	17.9 11	15.4 11	15.1 6	8.5 10
1940	131.0 11	74.1 11	43.6 14	39.4 6	14.8 4	26.0 2	23.4 2	19.1 5	13.6 9	7.7 15
1941	97.0 23	34.3 23	29.0 22	21.1 23	17.2 23	13.9 21	11.1 23	10.6 23	9.3 21	5.6 19
1942	62.0 18	47.5 20	26.6 23	23.6 21	17.7 21	13.6 22	12.3 21	10.9 22	8.1 23	6.0 17
1943	61.0 19	42.3 21	31.6 19	23.5 22	17.6 22	15.5 17	14.3 16	13.9 14	12.3 13	8.2 11
1944	58.0 21	43.1 18	30.3 20	26.7 17	21.9 14	20.9 9	17.7 12	14.6 12	10.5 15	5.9 18
1945	210.0 1	127.0 3	115.0 1	65.0 2	34.0 2	20.8 10	19.0 8	17.0 8	16.4 4	11.4 2
1946	61.0 17	57.0 13	36.7 17	25.2 18	21.3 15	16.3 15	12.4 20	11.5 19	10.0 19	8.0 13
1947	89.0 14	61.3 16	36.8 16	23.9 19	22.6 13	18.9 14	18.5 9	16.5 9	13.4 10	8.2 12
1948	72.0 13	69.0 12	55.6 6	36.9 9	27.3 10	21.6 7	19.4 7	17.2 7	13.4 11	8.6 8
1949	152.0 9	109.0 5	60.0 5	43.3 5	28.1 8	20.4 13	15.5 15	13.8 15	10.2 18	5.3 21
1950	86.0 15	56.3 17	39.7 15	28.1 16	21.2 16	15.3 18	11.0 19	11.5 20	8.8 22	4.8 23
1951	106.0 5	139.0 2	82.0 3	49.4 4	31.0 6	21.2 8	19.7 6	18.6 6	15.7 5	10.2 4
1952	140.0 7	94.0 8	51.1 9	35.7 11	31.9 5	25.3 5	23.9 1	20.1 3	19.0 1	12.7 1
1953	94.0 16	64.7 15	44.0 13	37.7 8	30.2 7	25.4 4	21.1 5	20.3 2	17.3 3	9.6 6
1954	56.0 22	40.3 22	29.6 21	23.9 20	17.6 19	13.2 23	13.2 17	11.4 21	9.5 20	5.1 22
1955	217.0 3	99.7 6	54.0 8	36.6 10	19.0 20	14.4 20	11.2 22	11.6 18	10.4 16	7.5 16
1956	201.0 4	120.0 4	74.4 4	48.8 3	37.2 3	24.3 6	17.5 13	14.1 13	13.3 12	9.7 5
1957	107.0 12	66.7 14	49.0 11	31.3 13	20.9 17	15.9 16	13.0 18	12.0 17	10.3 17	5.4 20
1958	143.0 10	84.0 9	55.3 7	38.2 7	27.5 9	25.5 3	22.0 3	22.2 1	18.5 2	10.1 3

MEAN	126.261	79.830	50.809	35.639	26.165	19.730	16.996	15.274	12.865	8.004
VARIANCE	4197.918	1339.692	502.265	170.173	59.740	22.388	15.382	11.977	10.087	4.479
STD DEV	64.791	36.602	22.411	13.045	7.729	4.732	3.922	3.461	3.176	2.116
SKEWNESS	.474	1.029	1.488	1.458	1.017	.248	.087	.345	.371	.260
SE OF SKEW	.481	.481	.481	.481	.481	.481	.481	.481	.481	.481
SER CORR	.036	.029	-.101	-.132	-.088	-.029	.051	.050	.081	.020
C OF VAR	.513	.458	.441	.366	.295	.240	.231	.227	.247	.264

LOGS

MEAN OF	2.042	1.861	1.672	1.528	1.401	1.283	1.219	1.173	1.097	.888
VAR OF	.057	.037	.029	.020	.015	.011	.011	.010	.012	.014
STD DEV OF	.238	.193	.170	.142	.121	.105	.103	.098	.107	.118
SKEW OF	-.169	.166	.636	.720	.500	-.051	-.212	.068	.025	-.236
SE OF SKEW OF	.481	.481	.481	.481	.481	.481	.481	.481	.481	.481
SER CORR OF	.078	.106	.023	-.062	-.030	-.013	.044	.045	.058	-.010
C OF VAR OF	.117	.103	.102	.093	.086	.082	.085	.084	.098	.133

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	28.757	27.338	22.757	18.798	14.638	10.812	9.187	8.906	7.062	3.916
1.05	43.585	35.784	26.698	21.248	16.649	12.828	11.050	10.319	8.335	4.855
1.11	54.072	41.491	29.453	22.955	17.969	14.041	12.153	11.173	9.108	5.421
1.25	69.809	49.844	33.604	25.509	19.856	15.653	13.595	12.312	10.145	6.171
2.00	111.888	71.725	45.090	32.461	24.611	19.227	16.692	14.867	12.483	7.815
5.00	175.457	105.018	64.145	43.653	31.518	23.548	20.254	18.016	15.381	9.748
10.00	220.876	129.087	79.040	52.170	36.358	26.150	22.304	19.949	17.165	10.878
25.00	278.440	161.730	100.676	64.262	42.792	29.217	24.636	22.263	19.304	12.174
50.00	323.011	187.644	118.990	74.293	47.823	31.373	26.220	23.914	20.831	13.061
100.00	368.315	214.914	139.320	85.247	53.065	33.436	27.699	25.514	22.311	13.892

STATISTICS OF MONTHLY MEANS, 1936-1958

STATISTICS OF LOGS OF MONTHLY MEANS, 1936-1958

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	4.468	7.160	3.534	1.603	4.645	.286	.2440	.6451	.0368	2.644		.731
NOV	7.461	5.865	.3100	.7862	7.756	.340	.6532	.5322	-.8476	.8148		.493
DEC	9.469	6.181	.1276	.6527	9.845	.116	.8245	.4397	-1.029	.5333		.157
JAN	10.25	6.718	.6638	.6555	10.66	.513	.9103	.3154	-.2167	.3465		.491
FEB	9.498	3.077	-.0538	.3240	9.874	.382	.9519	.1612	-.9179	.1693		.395
MAR	16.83	8.048	.9733	.4782	17.50	-.185	1.175	.2263	-.5897	.1927		-.181
APR	14.90	7.085	.3349	.4754	15.49	.466	1.121	.2270	-.3487	.2025		.498
MAY	9.213	5.648	.5212	.6130	9.578	.193	.8727	.3039	-.3058	.3483		.215
JUN	4.337	3.825	1.117	.8820	4.509	.471	.4373	.4756	-.5786	1.088		.429
JUL	3.754	6.974	3.778	1.858	3.903	.247	.1629	.6160	.0919	3.780		.760
AUG	2.836	4.591	2.369	1.619	2.948	.211						
SEP	3.170	3.554	1.239	1.121	3.296	.238	.1180	.6819	-.2997	5.779		

Note.--Some statistics of logs not computed; monthly mean discharge for month of August equals zero 1 or more times during period of record.

1-3860.00 WEST BROOK NEAR WANAQUE, N. J.

Location.--Lat 41°04'16", long 74°18'45", just upstream from Wanaque Reservoir.

Drainage area.--11.8 sq mi.

Remarks.--Slight regulation; probably not significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1935							2	1	4	13	23	19	29	10	15	12	25	50	52	37	24	22	15	5	1	5		1								6802.3
1936							3	15	1	23	43	25	19	8	15	24	27	22	26	16	29	18	20	11	7	4	1	4		1	2		1	1		9503.1
1937										3	20	26	21	46	25	14	27	34	42	26	28	27	9	7	4	1	3				1	1			9038.2	
1938										2	16	15	24	15	15	12	24	43	53	46	36	18	15	10	3	5	5	2		3			2	1		10516.9
1939							30	8	18	14	29	10	7	10	14	14	27	33	29	14	25	25	19	17	9	5	4	2		1		1			8421.7	
1940							2	3	16	28	42	41	20	21	17	23	25	17	21	17	16	14	7	13	7	3	3	4	1	1	1	1			7960.4	
1941							25	2	1	5	8	35	27	37	21	29	31	36	32	20	15	14	12	8	4	1	2								5562.5	
1942							2	1	8	32	16	21	24	29	20	22	34	21	34	23	19	14	14	4	8	7	2	2	1	1	1				7637.2	
1943							1	4	4	21	19	14	12	10	8	4	5	1	9	19	44	56	37	28	22	15	11	13	4	1	1		2		8345.8	
1944							1	2	11	7	44	24	15	6	18	21	19	24	25	20	23	27	19	18	15	12	2	6	3	3		1			7014.5	
1945							18	5	6	5	6	3	4	16	12	39	34	27	34	28	18	29	26	20	14	13	4	3	1		1				10960.1	
1946										2	6	21	10	18	27	51	41	31	34	29	17	19	22	12	10	7	1	4	1	2					9214.6	
1947										6	10	9	14	10	22	20	34	38	22	46	31	29	29	15	10	10	4	2	2		2				8594.2	
1948										2	14	22	21	26	8	5	13	8	23	29	36	32	25	26	28	15	8	9	6	5		3	2		8749.3	
1949										7	16	34	32	35	31	18	19	10	9	6	9	31	30	20	18	8	5	1	1	2		2	1		6630.0	
1950										6	19	30	42	28	21	9	22	19	20	46	30	17	23	15	8	6	2		1		1				6516.7	
1951										3	10	23	17	34	18	18	20	16	27	30	27	40	27	19	14	11	4	3			2	2			12016.8	
1952										7	8	24	12	22	24	14	35	45	39	53	24	17	12	11	6	3	3	3	1	2	1					14633.2
1953							14	4	20	7	18	16	9	20	16	22	15	10	6	7	19	31	29	31	19	16	17	4	3	6	4	1	1			10383.0
1954										13	16	13	36	25	14	23	11	22	18	17	21	32	27	24	23	12	5	10	1	2						6061.2
1955							1	1	7	12	1	7	5	15	38	26	27	13	23	23	36	37	28	23	16	10	6	5	2			2		1		8375.0
1956										8	13	9	6	23	22	27	24	26	20	23	27	36	38	22	19	11	5	2	1	1	1			2		10543.4
1957							9	21	44	15	16	10	9	14	12	9	27	35	15	25	36	26	18	8	5	4		4	2				1			6188.0
1958										5	18	27	28	18	23	18	15	12	15	17	26	20	13	29	20	16	21	12	2	6	1	1	1	1		10900.1
1959										9	14	12	29	32	34	28	40	21	34	33	23	32	11	4	4	2	2		1							6634.1
1960										5	1	18	12	16	17	30	53	64	38	39	20	19	12	7	5	5	3	1	1							12630.1
1961										5	2	32	7	9	21	24	32	44	42	34	24	16	15	18	12	18	5	1	2	1	1					8583.9
1962							2	8	63	36	20	19	17	19	22	17	17	19	27	23	10	15	8	8	7	5	1	1	1							5532.0
1963										29	35	18	11	5	8	2	25	17	45	46	27	25	21	13	14	12	9	2		1						6127.3
1964							16	11	15	25	31	18	15	19	10	17	13	16	22	23	29	23	21	18	7	12	2	1	1	1						6565.0
1965							13	19	24	28	51	16	20	15	10	23	15	13	20	42	30	7	9	4	1	4		1								3772.9
1966							10	6	4	4	6	7	9	23	14	6	11	10	24	22	47	35	20	33	28	14	12	6	3	3	7		1			5277.3
1967																3	11	15	16	16	13	22	31	52	59	33	35	21	17	9	7	2	3		9949.0	

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	12053	100.0	9	1.80	521	11038	91.6	18	16.0	1131	5289	43.9	27	150	69	152	1.2
1	0.20	19	12053	100.0	10	2.30	533	10517	87.3	19	21.0	1020	4158	34.5	28	190	24	83	.6
2	0.30	6	12043	99.9	11	3.00	536	9984	82.8	20	27.0	771	3138	26.0	29	240	28	59	.4
3	0.40	5	12037	99.9	12	3.80	558	9448	78.4	21	34.0	787	2367	19.6	30	310	15	31	.2
4	0.50	24	12032	99.8	13	4.80	607	8890	73.8	22	44.0	543	1580	13.1	31	390	9	16	.1
5	0.60	55	12008	99.6	14	6.20	609	8283	68.7	23	56.0	356	1037	8.6	32	500	5	7	.0
6	0.80	223	11953	99.2	15	7.90	710	7674	63.7	24	71.0	288	681	5.7	33	640	2	2	.0
7	1.10	260	11730	97.3	16	10.00	833	6964	57.8	25	91.0	168	393	3.3	34				
8	1.40	432	11470	95.2	17	13.00	842	6131	50.9	26	120.0	73	225	1.9					

1-3860.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

WEST BRANCH NEAR MANAQUE, No. 2

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1975	1.0 17	1.1 18	1.4 12	1.7 18	2.0 18	3.3 20	3.0 16	4.1 17	5.5 13	23.7 19
1936	1.0 18	1.3 14	1.3 16	1.3 14	1.7 14	2.6 18	2.9 15	4.0 16	5.4 12	21.0 14
1937	2.7 29	2.8 29	3.2 29	3.6 28	4.7 28	7.6 29	8.9 26	12.0 27	16.2 25	26.4 23
1938	2.1 27	2.2 27	2.5 26	2.7 26	3.1 25	11.1 31	17.1 32	16.0 10	22.0 31	29.2 28
1939	0.8 9	0.8 9	0.8 6	0.8 5	1.3 9	1.6 8	1.8 9	1.9 8	2.9 4	15.5 3
1940	0.9 13	1.3 19	1.7 24	1.9 21	2.6 22	4.9 23	4.5 25	7.9 24	12.7 22	23.7 20
1941	0.8 10	0.8 10	0.8 7	0.8 6	1.0 6	2.4 15	2.6 14	3.2 13	4.0 7	16.4 5
1942	0.9 14	1.0 11	1.6 21	1.9 22	3.0 24	4.9 24	8.1 24	9.9 25	16.8 26	26.5 24
1943	0.4 2	0.5 2	0.5 2	0.8 7	1.0 7	1.7 6	1.3 3	1.8 5	2.0 16	17.0 7
1944	0.5 3	0.7 7	0.9 9	1.0 9	1.4 11	1.6 9	2.0 10	1.9 6	4.1 9	20.6 11
1945	5.0 32	5.0 32	5.3 32	6.7 31	8.6 32	13.2 32	16.3 31	20.9 32	25.1 32	31.3 30
1946	1.9 26	2.1 26	2.5 27	2.9 27	4.0 27	7.5 28	10.6 27	11.5 26	12.7 23	21.2 15
1947	1.4 22	1.4 22	1.5 18	1.7 19	2.2 19	2.4 16	3.1 17	5.7 20	13.6 24	27.1 25
1948	0.8 11	1.0 12	1.1 13	1.2 11	1.4 12	1.8 11	2.2 11	2.6 9	4.0 8	22.0 18
1949	1.0 15	1.1 15	1.2 14	1.5 16	1.7 15	2.1 13	2.7 12	2.6 10	3.3 5	16.5 6
1950	1.6 24	1.6 24	1.7 22	2.1 23	2.5 20	2.6 17	3.2 18	3.5 14	8.4 17	27.3 26
1951	2.7 24	2.9 24	3.2 28	3.8 29	4.8 29	7.4 27	15.1 30	19.4 31	18.8 28	33.4 31
1952	3.0 30	3.3 30	3.5 30	3.8 30	4.8 30	6.9 26	15.0 29	16.0 29	21.3 29	30.9 32
1953	0.5 4	0.5 3	0.5 3	0.6 2	0.8 2	1.0 2	1.3 4	1.7 3	2.8 3	17.1 3
1954	1.0 16	1.1 16	1.2 15	1.4 15	1.9 16	1.9 12	2.5 13	5.1 19	7.8 15	21.9 17
1955	0.5 5	0.6 4	1.0 10	1.2 12	1.3 10	3.6 21	4.3 21	7.4 23	16.8 27	27.6 27
1956	1.5 23	1.5 23	1.7 23	2.3 25	2.5 21	4.9 22	5.7 22	6.4 21	9.0 19	20.7 12
1957	0.7 8	0.7 8	0.8 8	0.9 8	0.9 5	1.1 3	1.2 1	1.4 1	2.5 1	25.2 21
1958	1.2 20	1.3 20	1.5 19	1.6 17	2.8 23	3.0 19	3.2 19	4.2 18	11.2 21	21.8 16
1959	1.9 25	1.9 25	2.0 25	2.2 24	3.9 26	6.0 25	6.7 23	7.0 22	10.1 20	25.6 22
1960	1.1 31	3.3 31	3.7 31	6.8 32	8.6 31	10.4 30	11.9 28	13.4 28	21.3 30	29.9 29
1961	1.4 21	1.4 21	1.5 20	1.8 20	1.9 17	2.2 14	3.3 20	3.9 15	5.2 11	19.0 10
1962	0.9 12	1.0 13	1.1 11	1.3 13	1.5 13	1.6 10	1.7 8	2.6 11	6.7 14	18.9 9
1963	1.1 19	1.1 17	1.1 12	1.1 10	1.2 8	1.3 7	1.6 7	1.8 4	4.2 10	15.9 4
1964	0.6 6	0.6 5	0.6 4	0.7 3	0.8 3	1.2 4	1.4 5	1.6 2	2.8 2	12.9 1
1965	0.6 7	0.7 6	0.7 5	0.8 4	0.9 4	1.2 5	1.6 6	1.9 7	3.9 6	13.5 2
1966	0.2 1	0.2 1	0.2 1	0.3 1	0.5 1	0.9 1	1.3 2	2.6 12	8.4 18	20.9 13
MEAN	1.366	1.450	1.634	1.975	2.537	3.919	5.362	6.453	9.922	22.806
VARIANCE	1.033	1.065	1.251	2.393	4.019	10.623	24.600	31.339	44.765	37.320
STD DEV	1.017	1.032	1.119	1.547	2.005	3.259	4.960	5.598	6.691	6.109
SKEWNESS	1.847	1.750	1.542	1.997	1.869	1.378	1.273	1.294	.778	.648
SE OF SKEW	.414	.414	.414	.414	.414	.414	.414	.414	.414	.414
SER CORR	.176	.179	.184	.116	.167	.173	.158	.155	-.023	.157
C OF VAR	.744	.712	.684	.783	.790	.832	.925	.868	.674	.268

LOGS

MEAN OF	.037	.070	.122	.193	.298	.462	.566	.664	.895	1.343
VAR OF	.089	.083	.087	.089	.091	.114	.140	.128	.095	.013
STD DEV OF	.298	.288	.295	.298	.302	.338	.374	.358	.309	.116
SKEW OF	.010	-.092	-.342	.148	.307	.355	.484	.347	.003	-.030
SE OF SKEW OF	.414	.414	.414	.414	.414	.414	.414	.414	.414	.414
SER CORR OF	.275	.247	.237	.203	.239	.224	.167	.144	-.042	.181
C OF VAR OF	8.095	4.125	2.427	1.543	1.011	.731	.661	.540	.345	.086

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	.222	.240	.230	.340	.463	.582	.677	.836	1.504	11.786
20.00	.353	.388	.406	.520	.676	.876	1.015	1.293	2.439	14.185
10.00	.453	.499	.542	.655	.838	1.107	1.290	1.659	3.158	15.649
5.00	.611	.674	.757	.872	1.099	1.492	1.762	2.279	4.316	17.618
2.00	1.087	1.187	1.376	1.535	1.919	2.770	3.438	4.397	7.852	22.068
1.25	1.937	2.059	2.366	2.768	3.523	5.488	7.399	9.075	14.292	27.590
1.11	2.621	2.731	3.075	3.803	4.940	8.058	11.506	13.626	19.549	30.983
1.04	3.620	3.675	4.005	5.377	7.197	12.392	19.019	21.474	27.307	35.042
1.02	4.461	4.442	4.710	6.754	9.260	16.553	26.785	29.153	33.889	37.931
1.01	5.385	5.259	5.420	8.313	11.686	21.645	36.889	38.694	41.158	40.725

1-3860.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WEST BROOK NEAR HANAUKE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1935	158.0 30	115.0 28	90.7 26	55.0 31	40.8 32	35.0 31	31.5 29	31.4 28	29.1 25	18.6 22
1936	662.0 1	480.0 1	255.0 1	206.0 1	135.0 1	84.7 1	61.7 5	55.2 4	46.2 5	26.0 10
1937	400.0 8	192.0 18	106.0 22	68.9 25	54.7 28	51.7 15	46.4 14	42.8 14	38.8 11	24.8 12
1938	500.0 5	258.0 9	141.0 14	79.5 18	62.3 17	46.0 21	45.5 16	41.4 15	35.0 17	28.8 6
1939	318.0 16	202.0 17	131.0 16	79.4 19	60.1 21	55.7 12	52.7 8	46.3 8	41.2 7	23.1 16
1940	454.0 7	293.0 5	189.0 4	115.0 6	109.0 2	75.6 2	63.7 2	51.6 6	37.5 12	21.7 19
1941	122.0 33	84.7 33	60.6 33	52.1 32	39.5 33	31.0 32	25.9 33	27.2 30	25.4 31	15.2 31
1942	339.0 12	224.0 12	107.0 20	72.4 23	61.8 18	44.8 23	38.9 22	36.7 23	28.9 26	20.9 20
1943	300.0 17	177.0 20	106.0 21	78.1 21	55.9 26	44.2 24	39.3 21	41.0 17	35.7 14	22.9 17
1944	297.0 18	154.0 24	87.7 27	74.5 22	50.3 24	56.5 11	45.5 17	37.9 20	21.5 21	19.2 21
1945	356.0 11	204.0 16	146.0 11	95.7 13	71.7 11	46.3 20	49.5 12	43.4 13	40.8 9	29.8 4
1946	291.0 20	164.0 22	110.0 19	88.3 15	61.1 19	55.4 13	41.5 19	37.0 22	31.9 19	25.2 11
1947	250.0 23	172.0 21	103.0 23	66.5 26	64.5 15	52.3 14	51.1 11	45.3 11	37.5 13	23.5 15
1948	291.0 21	207.0 15	159.0 8	103.0 10	73.9 10	60.2 9	51.9 9	46.1 9	35.5 16	23.9 13
1949	336.0 13	262.0 6	146.0 12	116.0 5	77.0 8	56.9 10	46.0 15	44.1 12	33.3 18	18.2 23
1950	258.0 22	181.0 19	123.0 17	82.5 17	65.1 14	47.1 18	39.8 20	37.1 21	30.5 24	17.9 26
1951	475.0 6	193.0 3	212.0 3	126.0 3	88.0 4	69.2 7	63.1 3	57.9 3	48.7 4	32.9 3
1952	500.0 3	325.0 4	169.0 6	112.0 7	87.0 5	74.1 4	71.7 1	59.3 2	55.7 1	40.0 1
1953	330.0 14	232.0 10	133.0 15	101.0 11	84.6 7	66.4 8	59.2 7	54.9 5	52.8 3	28.4 8
1954	142.0 31	92.7 32	80.3 30	61.1 29	56.0 29	36.5 30	36.6 26	37.7 27	28.5 27	16.6 29
1955	644.0 2	287.0 6	169.0 7	112.0 8	60.2 20	43.2 25	34.5 27	34.5 26	31.2 22	22.9 18
1956	550.0 4	430.0 2	239.0 2	138.0 2	101.0 3	71.8 5	51.2 10	41.1 14	41.1 9	28.8 7
1957	321.0 15	215.0 14	150.0 10	92.2 14	60.0 22	44.9 22	37.7 25	35.6 24	30.5 23	17.0 28
1958	393.0 9	277.0 7	175.0 5	118.0 4	75.7 9	69.6 6	61.7 6	62.7 1	53.8 2	29.6 4
1959	198.0 25	109.0 30	82.9 29	58.1 30	42.8 30	36.7 28	30.2 30	26.0 32	26.6 30	18.2 24
1960	331.0 10	217.0 13	144.0 13	100.0 12	62.5 16	50.1 17	46.4 13	46.0 10	44.4 6	34.5 2
1961	296.0 19	227.0 11	155.0 9	112.0 9	86.8 6	74.4 3	61.7 4	51.1 7	39.1 10	23.5 14
1962	205.0 24	163.0 23	116.0 18	83.4 16	69.9 16	50.2 16	38.7 23	35.6 25	27.4 29	15.2 30
1963	180.0 28	111.0 29	78.9 31	72.2 24	57.6 25	36.5 29	29.9 31	26.7 31	27.8 28	17.3 27
1964	194.0 26	145.0 25	85.0 28	62.1 28	54.8 27	41.3 26	38.6 24	39.8 19	31.7 20	17.9 25
1965	130.0 32	95.0 31	75.6 32	50.5 33	41.3 31	30.8 33	26.5 32	22.9 33	18.6 33	10.3 33
1966	189.0 27	134.0 26	91.4 25	65.5 27	59.8 23	39.9 27	33.2 28	27.8 29	23.4 32	14.5 32
1967	156.0 29	126.0 27	97.6 24	78.7 20	65.5 13	46.9 19	43.0 18	40.2 18	25.6 15	27.3 9
MEAN	327.606	209.345	130.748	90.173	67.854	52.300	45.279	41.185	35.627	22.867
VARIANCE	22661.523	8698.539	2234.166	966.604	411.758	202.380	141.402	101.922	78.816	42.015
STD DEV	150.537	93.266	47.267	31.090	20.292	14.226	11.891	10.096	8.878	6.482
SKEWNESS	.730	1.114	.904	1.659	1.368	.534	.357	.261	.604	.526
SE OF SKEW	.409	.409	.409	.409	.409	.409	.409	.409	.409	.409
SER CORR	.144	.017	.057	-.123	-.256	-.057	.103	.040	.166	.201
C OF VAR	.460	.446	.362	.345	.299	.272	.263	.245	.249	.283

LOGS

MEAN OF	2.470	2.281	2.090	1.933	1.815	1.703	1.641	1.602	1.539	1.342
VAR OF	.041	.035	.023	.018	.015	.014	.013	.012	.012	.016
STD DEV OF	.204	.188	.152	.136	.120	.117	.116	.110	.108	.126
SKEW OF	-.104	.033	.157	.477	.408	.066	-.136	-.297	-.054	-.269
SE OF SKEW OF	.409	.409	.409	.409	.409	.409	.409	.409	.409	.409
SER CORR OF	.136	.011	.088	-.073	-.246	-.024	.084	.041	.172	.216
C OF VAR OF	.082	.082	.073	.070	.066	.069	.071	.068	.070	.094

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	95.822	70.494	56.803	46.317	37.244	27.311	22.921	21.043	19.242	10.603
1.05	134.821	94.111	70.358	53.707	42.811	32.561	27.945	25.861	22.920	13.378
1.11	161.229	109.880	79.123	58.600	46.409	35.800	30.986	28.721	25.139	15.065
1.25	199.640	132.662	91.500	65.652	51.492	40.199	35.038	32.461	28.093	17.312
2.00	297.809	190.719	122.010	83.703	64.060	50.336	44.032	40.464	34.663	22.266
5.00	439.185	275.100	164.809	110.533	81.853	63.293	54.864	49.558	42.634	28.118
10.00	535.624	333.612	193.874	129.698	94.071	71.465	61.342	54.723	47.447	31.560
25.00	659.658	410.201	231.465	155.564	110.053	81.450	68.921	60.519	53.130	35.461
50.00	753.267	469.056	260.116	176.069	122.375	88.693	74.207	64.410	57.129	38.142
100.00	847.715	529.379	289.338	197.663	135.070	95.803	79.235	68.001	60.962	40.650

1-3860.00 WEST BROOK NEAR WANAQUE, N. J.

STATISTICS OF MONTHLY MEANS, 1935-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	12.21	16.23	3.636	1.329	4.444	.116
NOV	24.32	17.01	.2778	.6997	8.850	.470
DEC	28.89	16.35	.5255	.5659	10.51	.171
JAN	27.98	15.10	.6574	.5395	10.18	.550
FEB	28.45	12.25	.7042	.4306	10.36	.177
MAR	48.46	20.31	1.220	.4192	17.64	-.139
APR	38.94	18.00	.3454	.4622	14.17	.346
MAY	24.21	14.01	.9058	.5787	8.812	.143
JUN	12.78	10.45	1.737	.8176	4.653	.505
JUL	9.030	10.59	2.325	1.173	3.286	.584
AUG	9.977	13.51	1.841	1.354	3.631	.396
SEP	9.518	11.84	1.927	1.244	3.464	.487

STATISTICS OF LOGS OF MONTHLY MEANS, 1935-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
	.8602	.4345	.4014	.5052	6.208	.502
	1.241	.3958	-.4442	.3189	8.959	.611
	1.380	.2876	-.6006	.2084	9.962	.330
	1.384	.2390	.0638	.1726	9.991	.577
	1.413	.1992	-.4648	.1410	10.20	.206
	1.650	.1785	-.0391	.1082	11.91	-.196
	1.541	.2167	-.2224	.1406	11.12	.313
	1.313	.2566	-.0628	.1954	9.476	.179
	.9882	.3211	.2795	.3249	7.132	.521
	.7425	.4188	.5622	.5640	5.359	.769
	.6478	.5513	.5607	.8511	4.675	.640
	.6944	.5056	.3132	.7282	5.011	.655

1-3865.00 BLUE MINE BROOK NEAR WANAQUE, N. J.

Location--Lat 41°03'04", long 74°19'10", 0.2 mile upstream from Wanaque Reservoir,

Drainage area--1.71 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1935	13	56	31	10	7	5	13	29	25	50	35	20	25	23	9	8	5	1	5	1																625.2
1936	102	20	8	1	19	4	17	24	25	17	18	15	25	18	13	13	8	5	3	2	3	1	1				2		1		1				967.2	
1937	12	59	12	30	16	22	11	5	30	13	27	27	32	15	20	12	5	7	4	1		3			1			1							860.2	
1938	16	5	23	6	13	5	20	24	21	37	44	37	33	25	13	12	3	11	2	1	5	2	2	1	1		1		1		1				1035.4	
1939	51	48	14	5	8	27	15	13	26	23	19	16	22	14	23	9	12	2	8	4	4	1			1										864.1	
1940	52	15	9	6	10	52	54	25	17	13	13	15	15	19	12	8	9	5	8	3	3	2							1						843.9	
1941					118	18	13	15	46	39	28	19	13	18	9	10	6	4	4	3	1	1													593.1	
1942	2	45	21	16	46	9	19	28	31	31	20	17	9	14	14	9	8	5	6	1	2	2	1					1							469.0	
1943	32	37	3	22	4	2	2	10	22	45	41	31	24	26	24	13	7	9	4	2	2	1													897.4	
1944	14	87	18	13	6	7	20	19	37	27	17	16	19	19	16	11	7	8	2	2	2	3				1									698.7	
1945	33	15	11	9	3	17	29	32	29	24	24	20	18	15	24	19	14	11	7	6	2	1				2									1078.5	
1946	22	18	11	4	9	7	16	41	53	31	24	13	16	24	15	17	10	5	6	4	3			2	1	3									868.9	
1947	34	9	14	9	21	24	11	16	36	26	28	26	26	21	19	12	9	5	7	2	4	2				2									810.2	
1948	41	4	12	8	2	3	15	17	45	32	16	12	15	21	18	14	14	9	2	4	5	2				5									857.3	
1949	143	11	20	14	4	9	6	7	10	23	19	15	22	15	8	13	7	5	2	2	2	1				1			1						631.7	
1950	49	22	23	22	17	19	12	18	24	36	23	19	14	22	11	13	7	10	1	1	1					1									582.0	
1951																																				1197.1
1952	5	9	14	21	17	7	21	13	11	30	29	26	42	20	26	19	11	8	12	9	4	3	2	1	1	1						1	1		1407.3	
1953	12	74	19	30	18	4	4	7	5	16	17	20	19	21	20	19	13	12	8	4	4	4	3	3	1	2			1						1116.1	
1954	83	28	19	23	8	15	14	14	28	22	20	21	20	15	6	10	3	3	5	3	3	1	1												537.5	
1955	33	29	38	15	14	17	14	18	20	32	25	25	29	20	8	12	9	4	2	2	3	2					2		1						741.0	
1956	3	65	22	10	6	8	24	15	20	25	14	27	26	21	22	21	9	12	5	1	1	1				1	2	1							871.3	
1957	115	42	7	3	2	6	15	19	30	20	28	23	12	16	6	4	7	1		1	6	1					1								550.9	
1958	98	35	12	4	8	3	8	13	15	22	19	12	17	18	9	14	15	13	10	4	7	2	2	2				1	2						1021.4	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	752	8766	100.0	9	1.20	663	4285	48.9	18	8.1	115	411	4.7	27	53	9	15	.1
1	0.10	824	8014	91.4	10	1.50	587	3622	41.3	19	9.9	85	296	3.4	28	65	2	6	.0
2	0.20	501	7190	82.0	11	1.90	521	3035	34.6	20	12.0	78	211	2.4	29	80	2	4	.0
3	0.30	316	6604	76.3	12	2.30	482	2514	28.7	21	15.0	44	133	1.5	30	99	2	2	.0
4	0.40	402	6373	72.7	13	2.80	506	2032	23.2	22	19.0	22	89	1.0	31				
5	0.50	246	5971	68.1	14	3.50	369	1526	17.4	23	23.0	9	67	0.8	32				
6	0.60	380	5725	65.3	15	4.30	341	1157	13.2	24	28.0	16	58	0.7	33				
7	0.80	456	5345	61.0	16	5.30	226	816	9.3	25	35.0	19	42	0.5	34				
8	1.00	674	4889	55.8	17	6.50	179	590	6.7	26	43.0	8	23	0.3					

1-3865.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

BLUE HINE BROOK NEAR WANAQUE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1935	0.1 16	0.1 16	0.1 14	0.1 13	0.1 8	0.2 14	0.2 13	0.3 12	0.4 8	2.4 13
1936	0.1 17	0.1 17	0.1 15	0.1 14	0.1 9	0.1 7	0.1 4	0.2 7	0.3 5	2.0 10
1937	0.2 23	0.2 23	0.2 22	0.2 21	0.3 21	0.4 20	0.6 18	0.8 18	1.3 16	2.6 17
1938	0.0 1	0.0 1	0.0 1	0.0 1	0.1 10	1.1 22	1.6 23	1.6 21	2.1 22	3.0 20
1939	0.1 14	0.1 14	0.1 16	0.1 15	0.1 11	0.1 8	0.1 5	0.2 8	0.3 6	1.6 4
1940	0.1 19	0.1 19	0.1 17	0.1 16	0.2 17	0.5 21	0.7 19	0.7 16	1.3 17	2.5 14
1941	0.0 2	0.0 2	0.1 18	0.1 17	0.2 18	0.3 15	0.3 15	0.4 14	0.4 9	1.5 2
1942	0.1 20	0.1 20	0.1 19	0.1 18	0.2 19	0.3 16	0.6 16	0.8 17	1.4 18	2.5 15
1943	0.0 3	0.0 3	0.0 2	0.0 2	0.0 1	0.1 9	0.1 6	0.1 4	0.8 13	1.7 5
1944	0.0 4	0.0 4	0.0 3	0.1 19	0.1 12	0.1 10	0.1 7	0.1 5	0.3 7	1.9 8
1945	0.1 21	0.1 21	0.3 23	0.3 22	0.8 23	1.2 23	1.4 22	2.0 23	2.5 23	3.1 21
1946	0.0 5	0.0 5	0.0 4	0.0 3	0.1 13	0.4 17	0.6 17	1.1 19	1.0 14	2.0 9
1947	0.0 6	0.0 6	0.0 5	0.0 4	0.0 2	0.0 1	0.1 8	0.3 13	1.2 15	2.7 18
1948	0.0 7	0.0 7	0.0 6	0.0 5	0.0 3	0.0 2	0.0 1	0.0 1	0.2 3	2.1 11
1949	0.0 3	0.0 3	0.0 7	0.0 6	0.0 4	0.0 3	0.0 2	0.0 2	0.1 1	1.4 1
1950	0.0 9	0.0 9	0.0 8	0.0 7	0.1 14	0.2 11	0.2 14	0.2 9	0.7 12	2.8 19
1951	0.1 22	0.1 22	0.1 20	0.2 20	0.2 20	0.4 18	1.1 20	1.6 22	1.7 20	3.1 22
1952	0.0 10	0.0 10	0.2 21	0.3 23	0.4 22	0.4 19	1.3 21	1.4 20	1.7 21	4.1 23
1953	0.0 11	0.0 11	0.0 9	0.0 6	0.0 5	0.0 4	0.1 9	0.1 6	0.2 4	1.7 6
1954	0.0 12	0.0 12	0.0 10	0.0 9	0.0 6	0.0 5	0.1 10	0.3 10	0.6 10	1.9 7
1955	0.0 13	0.0 13	0.0 11	0.0 10	0.1 15	0.2 12	0.2 11	0.5 15	1.4 19	2.4 12
1956	0.0 14	0.0 14	0.0 12	0.0 11	0.1 16	0.2 13	0.2 12	0.3 11	0.6 11	1.6 3
1957	0.0 15	0.0 15	0.0 13	0.0 12	0.0 7	0.0 6	0.0 3	0.0 3	0.1 2	2.5 16

	1 [†]	3 [†]	7 [†]	14 [†]	30 [†]	60 [†]	90 [†]	120 [†]	183	ANNUAL
MEAN	.112	.112	.140	.155	.200	.365	.485	.650	.896	2.309
VARIANCE	.001	.001	.005	.007	.033	.104	.242	.344	.467	.424
STD DEV	.035	.035	.070	.082	.183	.322	.492	.586	.683	.652
SKEWNESS	2.828	2.828	1.658	1.153	2.704	1.889	1.197	1.083	.736	.837
SE OF SKEW	.752	.752	.687	.661	.564	.550	.512	.512	.481	.481
SER CORR	-.167	-.167	-.324	.302	-.247	-.166	-.024	-.003	-.108	-.109
C OF VAR	.314	.314	.499	.531	.913	.883	1.015	.902	.763	.282

LOGS

MEAN OF	-.962	-.962	-.892	-.859	-.801	-.566	-.532	-.367	-.203	.348
VAR OF	.011	.011	.032	.042	.076	.112	.201	.177	.170	.014
STD DEV OF	.106	.106	.180	.204	.275	.335	.449	.420	.412	.119
SKEW OF	2.828	2.828	1.326	.920	1.353	.360	.371	.029	-.469	.174
SE OF SKEW OF	.752	.752	.687	.661	.564	.550	.512	.512	.481	.481
SER CORR OF	-.167	-.167	-.352	.351	-.288	-.170	-.042	-.071	-.020	-.190
C OF VAR OF	-.111	-.111	-.202	-.238	-.343	-.592	-.844	-1.145	-2.027	.343

† Zero flow values excluded in computation of statistics.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1 [†]	3 [†]	7 [†]	14 [†]	30 [†]	60 [†]	90 [†]	120 [†]	183	ANNUAL
100.00	-	-	-	-	-	-	-	-	.050	1.218
20.00	-	-	-	-	-	-	-	-	.117	1.437
10.00	-	-	-	-	-	-	-	-	.179	1.575
8.10	-	-	-	-	-	-	-	0	-	-
8.00	-	-	-	-	-	-	0	-	-	-
5.00	-	-	-	-	-	-	.06	.10	.290	1.763
4.00	-	-	-	-	-	0	-	-	-	-
3.43	-	-	-	-	0	-	-	-	-	-
2.00	-	-	-	0	.10	.18	.23	.34	.674	2.208
1.85	-	-	0	-	-	-	-	-	-	-
1.71	-	0	-	-	-	-	-	-	-	-
1.60	0	-	-	-	-	-	-	-	-	-
1.25	.08	.09	.12	.15	.20	.44	.66	.86	1.411	2.797
1.11	.11	.12	.17	.21	.30	.66	1.12	1.37	1.995	3.180
1.04	.14	.15	.23	.30	.47	1.03	2.00	2.20	2.803	3.658
1.02	.17	.18	.30	.38	.73	1.37	2.86	3.00	3.439	4.012
1.01	.21	.22	.37	.45	1.02	1.77	3.95	3.98	4.092	4.366

† Zero flow values included in computation of curve.

1-3865.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BLUE MINE BROOK NEAR HANAUKE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1935	12.6 24	10.0 23	8.0 23	5.0 24	3.8 23	3.2 24	2.9 23	2.9 22	2.7 20	1.7 20
1936	35.0 3	54.5 2	29.6 2	21.6 1	14.4 1	9.0 1	6.5 4	5.9 4	4.8 5	2.6 7
1937	43.0 12	19.4 18	10.3 20	6.9 20	5.4 20	5.0 14	4.5 13	4.3 11	4.0 8	2.4 8
1938	68.0 5	29.5 4	14.9 12	8.4 13	6.1 14	4.4 17	4.6 12	4.0 13	3.5 13	3.8 5
1939	31.0 19	21.7 14	13.9 14	8.3 14	6.6 12	6.0 10	5.6 7	4.9 7	4.3 6	2.4 9
1940	61.0 8	27.1 10	17.2 11	10.3 11	10.0 5	7.3 5	6.4 5	5.3 6	3.9 9	2.3 12
1941	15.0 23	10.0 24	7.0 24	5.1 23	3.8 24	3.3 23	2.9 24	2.9 23	2.7 21	1.6 21
1942	46.0 11	23.4 12	11.0 19	6.8 21	5.7 17	4.2 18	3.5 19	3.2 20	2.6 22	1.8 17
1943	37.0 16	20.4 15	12.7 15	7.4 17	4.9 21	4.5 16	4.0 16	4.0 14	3.5 14	2.2 14
1944	40.0 13	17.7 19	9.1 21	7.2 18	5.5 18	5.3 11	4.3 15	3.7 15	3.1 16	1.8 18
1945	42.0 14	19.7 17	17.7 9	11.0 9	7.3 10	4.6 15	4.9 11	4.3 12	4.2 7	3.0 4
1946	31.0 20	17.2 20	11.7 16	8.1 15	6.0 15	5.2 12	3.9 17	3.5 16	3.1 17	2.4 10
1947	35.0 17	20.2 18	11.3 17	6.9 19	6.8 11	5.2 13	5.1 9	4.4 10	3.7 10	2.2 15
1948	33.0 18	23.9 11	17.4 10	11.0 10	8.1 9	6.5 7	5.6 8	4.8 8	3.7 11	2.3 13
1949	72.0 4	44.5 3	23.0 4	14.9 4	9.4 6	6.4 8	4.9 10	4.6 9	3.4 15	1.7 19
1950	24.0 21	16.3 21	11.3 18	7.4 16	5.7 16	4.1 20	3.7 18	3.4 18	2.6 18	1.6 22
1951	121.0 1	59.9 1	31.6 1	17.2 2	11.0 3	7.8 4	6.6 3	5.8 5	5.0 4	3.3 2
1952	99.0 2	43.6 4	21.6 6	13.2 6	10.2 4	8.0 3	7.9 1	6.4 2	5.8 1	3.8 1
1953	61.0 9	32.0 7	20.1 7	14.9 3	11.3 2	8.3 2	7.0 2	6.4 3	5.8 2	3.1 3
1954	22.0 22	12.1 22	8.9 22	6.2 22	4.8 22	3.4 22	3.4 20	2.9 24	2.6 23	1.5 23
1955	64.0 6	29.4 6	18.6 8	11.7 8	6.1 13	4.2 19	3.2 21	3.2 19	2.8 19	2.0 16
1956	48.0 10	39.3 6	22.1 5	12.4 7	9.2 7	6.2 9	4.4 14	3.5 17	3.5 12	2.4 11
1957	38.0 15	22.1 13	14.8 13	8.8 12	5.5 19	3.9 21	3.7 22	3.1 21	2.6 24	1.4 24
1958	62.0 7	42.3 5	24.2 3	14.5 5	8.8 8	7.1 6	6.4 6	6.5 1	5.4 3	2.8 5
MEAN	49.692	27.417	16.125	10.217	7.350	5.546	4.804	4.337	3.729	2.296
VARIANCE	685.410	182.734	43.371	17.361	7.117	2.863	2.029	1.417	1.022	.381
STD DEV	26.180	13.518	6.586	4.167	2.668	1.692	1.424	1.190	1.011	.617
SKEWNESS	1.059	.942	.705	1.042	.910	.481	.477	.554	.796	.601
SE OF SKEW	.472	.472	.472	.472	.472	.472	.472	.472	.472	.472
SER CORR	-.046	-.128	-.141	-.203	-.213	-.109	.150	.095	.155	.186
C OF VAR	.527	.493	.408	.408	.363	.305	.297	.274	.271	.269

LOGS

MEAN OF	1.638	1.389	1.173	.977	.840	.725	.663	.622	.557	.346
VAR OF	.056	.045	.032	.028	.023	.018	.017	.014	.013	.013
STD DEV OF	.238	.212	.178	.168	.152	.132	.129	.117	.113	.116
SKEW OF	-.369	-.010	-.002	.289	.223	.053	.033	.233	.420	.073
SE OF SKEW OF	.472	.472	.472	.472	.472	.472	.472	.472	.472	.472
SER CORR OF	-.258	-.202	-.157	-.195	-.230	-.155	.081	.063	.084	.084
C OF VAR OF	.145	.153	.152	.172	.181	.183	.194	.188	.202	.334

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	10.516	7.836	5.741	4.190	3.255	2.642	2.328	2.347	2.141	1.212
1.05	16.744	10.954	7.593	5.192	3.989	3.229	2.837	2.742	2.435	1.440
1.11	21.164	13.092	8.812	5.858	4.467	3.597	3.154	2.990	2.625	1.581
1.25	27.755	16.242	10.553	6.824	5.145	4.102	3.588	3.332	2.891	1.772
2.00	44.914	24.512	14.897	9.317	6.837	5.291	4.599	4.145	3.543	2.212
5.00	69.306	36.950	21.024	13.061	9.252	6.850	5.910	5.233	4.456	2.774
10.00	85.371	45.771	25.171	15.752	10.918	7.853	6.744	5.946	5.076	3.128
25.00	105.206	57.490	30.495	19.396	13.102	9.094	7.768	6.846	5.882	3.560
50.00	119.548	66.598	34.519	22.289	14.786	10.005	8.515	7.518	6.499	3.873
100.00	133.481	76.008	38.589	25.337	16.521	10.907	9.250	8.193	7.131	4.181

STATISTICS OF MONTHLY MEANS, 1935-1958

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	.9723	1.699	3.653	1.747	3.523	.137
NOV	2.432	1.631	.0480	.6704	8.814	.342
DEC	3.247	1.776	.6772	.5471	11.77	-.020
JAN	2.902	1.664	.6845	.5735	10.52	.553
FEB	2.688	1.149	1.042	.4275	9.741	.104
MAR	5.028	2.630	1.139	.5230	18.22	-.044
APR	4.007	1.942	.2759	.4846	14.52	.469
MAY	2.499	1.535	.4647	.6143	9.056	.101
JUN	1.351	1.340	1.533	.9921	4.895	.520
JUL	.8591	1.332	2.521	1.551	3.113	.455
AUG	.8282	1.355	2.508	1.637	3.001	.303
SEP	.7819	1.057	1.525	1.352	2.833	.264

STATISTICS OF LOGS OF MONTHLY MEANS, 1935-1958

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
	.2331	.4274	-.7338	1.833		
	.4335	.2897	-.7648	.6682		.042
	.3908	.2616	-.1186	.6694		.517
	.3909	.1924	-.4525	.4921		.094
	.6481	.2192	.1481	.3382		-.098
	.5467	.2349	-.3351	.4297		.392
	.3029	.3121	-.4108	1.030		.112
	-.1071	.5134	-.4178	-4.791		.503
	-.4770	.6518	-.1676	-1.366		.831

Note.--Some statistics of logs not computed; monthly mean discharge for months of October, August and September equals zero 1 or more times during period of record.

1-3875.00 RAMAPO RIVER NEAR MAHWAH, N. J.

Location.--Lat 41°05'51", long 74°09'48", 350 ft downstream from State Highway 17.

Drainage area.--118 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1933																																					150223.0
1934																																					117317.0
1935																																					79436.0
1936																																					82288.0
1937																																					54169.0
1938																																					90517.0
1939																																					61425.0
1940																																					62960.0
1941																																					95096.0
1942																																					124105.0
1943																																					64937.0
1944																																					55475.0
1945																																					69248.0
1946																																					44170.0
1947																																					108467.0
1948																																					60402.0
1949																																					67022.0
1950																																					81628.0
1951																																					92080.0
1952																																					97430.0
1953																																					75188.0
1954																																					77647.0
1955																																					
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CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	17	17897	100.0	9	42.00	806	1762	82.6	18	270.0	1029	5514	25.2	27	1800	39	90	4.4
1	8.00	17	17897	100.0	10	52.00	960	13976	78.1	19	330.0	989	3485	19.5	28	2200	13	41	2.2
2	9.00	62	17880	99.9	11	64.00	1058	1016	72.7	20	410.0	800	2496	13.9	29	2700	14	28	1.1
3	12.00	165	17818	99.6	12	78.00	1143	11958	66.8	21	510.0	520	1696	9.5	30	3300	4	14	0.5
4	15.00	263	17653	99.6	13	96.00	1221	10815	60.4	22	620.0	427	1176	6.6	31	4000	5	10	0.3
5	18.00	537	17390	97.2	14	120.00	1323	9594	53.6	23	770.0	277	749	4.2	32	5000	2	5	0.1
6	23.00	550	16453	94.2	15	150.00	1223	8271	46.2	24	940.0	218	472	2.6	33	6100	1	3	0.0
7	26.00	646	16263	90.9	16	180.00	1328	7048	39.4	25	1200.0	91	254	1.4	34	7500	2	2	0.0
8	34.00	795	15577	87.0	17	220.00	1206	5720	32.0	26	1400.0	83	163	0.9					

1-3875.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1.

RAYAPO RIVER NEAR HAYMAW, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1933	43.0 46	47.0 46	51.6 45	53.3 44	67.2 43	177.0 47	186.0 46	246.0 47	303.0 47	384.0 47
1934	11.0 9	11.0 6	12.9 8	18.6 16	36.5 29	38.1 26	62.5 33	84.9 33	128.0 35	253.0 36
1935	24.0 31	28.0 34	29.1 32	31.1 31	37.8 30	41.7 30	52.6 28	57.1 24	79.9 23	176.0 12
1936	13.0 17	15.0 17	16.6 16	17.1 14	18.7 10	21.2 9	24.8 9	28.0 7	71.4 19	192.0 16
1937	23.0 30	24.7 29	25.6 29	26.1 28	32.8 28	40.1 27	48.0 26	58.3 25	79.2 22	232.0 30
1938	27.0 32	32.0 37	34.1 36	37.1 35	40.3 32	41.5 29	46.9 25	59.4 20	77.1 21	170.0 9
1939	19.0 24	19.3 23	20.7 23	21.6 22	23.0 17	32.6 24	45.2 24	64.6 27	73.5 20	167.0 17
1940	22.0 29	27.0 31	33.4 35	36.9 34	53.0 40	96.1 42	164.0 45	170.0 44	255.0 45	319.0 44
1941	39.0 44	41.3 44	47.3 44	51.0 43	54.3 41	57.2 32	65.0 34	77.3 31	137.0 36	248.0 35
1942	8.0 1	10.7 5	12.7 6	16.2 8	21.7 14	29.9 21	35.9 20	45.6 18	69.3 18	178.0 13
1943	11.0 10	14.7 15	15.0 11	16.5 10	17.2 7	22.8 11	27.1 10	31.1 8	50.2 13	130.0 2
1944	19.0 25	21.7 20	24.9 28	25.6 26	27.7 24	28.6 20	30.5 16	37.4 15	54.7 10	160.0 14
1945	8.0 2	10.3 3	12.6 5	13.5 4	14.0 3	16.8 2	20.1 2	31.8 9	64.6 17	212.0 25
1946	12.0 5	11.7 8	15.7 13	16.3 9	19.6 12	27.5 15	48.9 27	94.6 37	155.0 39	275.0 29
1947	12.0 11	17.0 23	19.4 22	20.8 19	23.8 19	30.4 22	55.2 29	91.7 36	142.0 47	237.0 31
1948	10.0 6	13.3 11	16.6 17	18.0 15	19.9 11	31.4 23	32.4 19	47.1 21	60.1 15	218.0 27
1949	13.0 13	15.3 13	19.1 18	21.5 21	23.2 18	28.3 19	29.5 15	35.1 11	54.4 9	210.0 23
1950	26.0 34	30.0 35	36.0 40	49.4 42	67.2 44	77.0 40	89.8 39	126.0 40	154.0 38	244.0 34
1951	35.0 41	37.7 42	40.1 41	42.0 39	50.6 38	110.0 44	156.0 44	192.0 45	224.0 44	265.0 40
1952	14.0 19	15.0 16	16.0 14	16.9 13	17.8 9	20.1 7	21.5 4	23.8 2	33.3 2	136.0 4
1953	26.0 35	27.0 32	28.1 31	29.1 30	41.0 33	62.6 35	76.1 37	76.3 30	122.0 32	242.0 32
1954	10.0 7	10.3 4	10.7 2	11.6 2	13.7 2	17.2 3	22.6 5	25.7 3	35.0 3	149.0 7
1955	35.0 42	36.7 41	44.7 43	68.5 46	75.0 45	98.8 43	113.0 41	131.0 41	176.0 40	256.0 38
1956	12.7 15	14.1 13	14.6 10	22.4 24	24.2 20	27.8 16	32.3 18	38.9 17	90.2 25	170.0 10
1957	12.2 14	14.2 14	16.0 15	16.7 11	20.8 13	22.3 10	27.5 11	26.7 5	45.1 7	194.0 18
1958	49.0 47	58.7 47	65.8 47	68.1 45	92.3 46	167.0 46	197.0 47	239.0 46	271.0 46	323.0 45
1959	26.0 36	32.7 36	31.9 34	33.9 33	39.0 31	65.5 37	78.3 38	82.1 32	95.3 28	176.0 11
1960	27.0 37	33.0 38	35.1 37	41.7 38	51.9 39	63.4 36	70.3 35	111.0 39	124.0 34	254.0 37
1961	14.0 24	21.0 27	22.1 26	25.0 25	25.8 23	28.0 18	31.1 17	36.9 12	57.4 11	213.0 26
1962	18.6 22	18.6 22	19.2 20	21.1 20	22.1 16	24.8 12	28.5 12	36.9 13	35.5 4	131.0 5
1963	25.0 32	25.0 30	26.0 30	32.6 32	44.2 34	53.9 31	56.2 30	56.8 23	93.6 27	297.0 39
1964	39.0 43	41.0 43	44.0 42	49.1 41	57.6 42	72.3 39	108.0 40	103.0 38	122.0 33	286.0 41
1965	34.0 40	34.7 40	35.6 38	39.7 37	46.5 36	70.8 38	131.0 42	140.0 42	181.0 41	354.0 46
1966	13.0 16	13.0 15	13.7 9	14.8 7	15.6 5	18.2 4	23.9 8	27.9 6	37.1 5	170.0 8
1967	17.0 21	18.0 20	19.1 19	20.4 18	25.3 22	27.8 17	37.1 21	72.4 29	102.0 30	200.0 22
1968	20.0 27	20.7 25	21.6 25	22.3 23	31.5 27	58.2 34	61.5 32	90.4 35	214.0 43	300.0 43
1969	31.0 39	33.3 37	35.9 39	43.0 40	47.2 37	78.9 41	72.0 36	89.2 34	111.0 31	219.0 28
1970	11.0 8	11.3 7	12.0 4	12.5 3	14.9 4	18.2 5	22.9 4	37.4 14	45.1 8	243.0 33
1971	20.0 28	20.0 25	23.1 27	28.4 29	31.2 26	36.5 25	44.1 23	54.8 22	100.0 29	211.0 24
1972	25.0 33	27.7 33	30.4 33	37.8 36	45.7 35	57.5 33	60.7 31	67.0 28	207.0 26	207.0 21
1973	42.0 45	46.7 45	56.7 46	88.8 47	94.3 47	111.0 45	134.0 43	148.0 43	201.0 42	297.0 42
1974	19.0 23	19.7 24	21.4 24	25.9 27	29.4 25	40.4 28	43.6 22	46.7 20	59.6 14	200.0 20
1975	16.0 20	17.0 19	19.3 21	20.3 17	24.3 21	25.7 13	29.3 13	34.4 10	60.8 16	182.0 15
1976	12.0 12	12.7 9	12.9 7	13.6 5	14.4 6	20.1 8	20.6 3	26.4 6	41.2 6	148.0 6
1977	8.4 3	9.1 1	9.7 1	9.8 1	10.1 1	13.2 1	14.8 1	15.9 1	26.0 1	121.0 1
1978	12.0 13	13.7 12	15.6 12	16.9 12	21.9 15	27.2 14	29.5 14	37.5 16	58.9 12	123.0 3
1979	9.4 4	9.6 2	10.8 3	13.6 6	17.6 8	19.9 6	23.3 7	45.9 19	85.0 24	195.0 19
MEAN	20.772	22.983	25.430	29.300	34.970	48.840	60.236	74.459	105.432	217.830
VARIANCE	112.999	137.145	173.514	285.303	407.734	1351.592	2107.591	2949.931	4500.191	3520.628
STD DEV	10.630	11.711	13.172	16.891	20.192	36.764	45.908	54.313	67.083	59.333
SKEWNESS	.874	1.024	1.145	1.531	1.280	1.885	1.580	1.632	1.265	.697
SE OF SKEW	.347	.347	.347	.347	.347	.347	.347	.347	.347	.347
SER CORR	.043	.021	-.010	.019	.044	.024	.053	.017	-.016	.094
C OF VAR	.512	.510	.518	.576	.577	.753	.762	.729	.636	.272
LOGS										
MEAN OF	1.264	1.310	1.353	1.407	1.480	1.595	1.680	1.777	1.944	2.323
VAR OF	.048	.045	.045	.050	.055	.076	.083	.081	.069	.014
STD DEV OF	.219	.213	.212	.224	.234	.277	.288	.284	.263	.117
SKEW OF	.135	.216	.283	.408	.261	.550	.507	.324	.147	.010
SE OF SKEW OF	.347	.347	.347	.347	.347	.347	.347	.347	.347	.347
SER CORR OF	.116	.053	.018	.076	.099	.081	.121	.071	.004	.128
C OF VAR OF	.173	.162	.156	.160	.158	.173	.171	.160	.135	.050

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENT INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	5.982	7.063	8.040	8.974	9.562	11.616	13.122	15.281	22.927	112.602
20.00	8.178	9.407	10.544	11.634	12.975	15.402	17.814	21.735	33.307	135.119
10.00	9.702	11.030	12.284	13.522	15.395	18.246	21.359	26.552	40.864	148.933
5.00	11.979	13.455	14.893	16.412	19.088	22.820	27.092	34.237	52.615	167.592
2.00	18.145	20.049	22.055	24.655	29.521	37.155	45.218	57.780	86.688	210.149
1.25	27.929	30.629	33.743	38.927	47.195	65.694	81.690	102.520	145.853	263.680
1.11	35.219	38.614	42.706	50.447	61.134	91.587	115.002	141.217	193.072	296.962
1.04	45.323	49.822	55.467	67.578	81.405	134.094	169.922	201.876	262.079	337.162
1.02	53.489	58.992	66.048	82.354	98.516	174.146	221.824	256.548	320.423	366.018
1.01	62.199	68.873	77.577	98.981	117.418	222.572	284.693	320.177	384.851	394.107

1-3875.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

RAMAPO RIVER NEAR MAHWA, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1903	2400.0 19	1930.0 16	1280.0 17	1050.0 12	832.0 6	710.0 5	672.0 1	619.0 2	601.0 1	461.0 1
1904	8920.0 1	5440.0 1	3070.0 1	1730.0 1	1000.0 2	599.0 11	507.0 10	445.0 10	473.0 5	321.0 4
1905	2810.0 17	1930.0 17	1390.0 15	1190.0 6	822.0 9	516.0 20	466.0 15	431.0 11	345.0 17	218.0 25
1906	1880.0 25	1330.0 29	999.0 27	758.0 24	676.0 21	547.0 14	452.0 19	403.0 17	350.0 18	225.0 21
1907	1330.0 38	1180.0 35	990.0 28	860.0 21	628.0 24	443.0 31	355.0 34	310.0 35	260.0 41	147.0 46
1908	3520.0 10	2260.0 10	1430.0 13	961.0 16	722.0 15	604.0 10	496.0 11	414.0 14	450.0 7	247.0 17
1909	1960.0 23	1650.0 21	1260.0 18	862.0 20	682.0 20	517.0 18	394.0 28	339.0 33	254.0 43	168.0 37
1910	1270.0 41	972.0 43	744.0 42	615.0 37	489.0 40	426.0 35	350.0 35	299.0 40	280.0 35	172.0 35
1911	4450.0 7	2720.0 8	1750.0 7	1060.0 10	701.0 17	455.0 27	324.0 30	300.0 38	295.0 30	261.0 13
1912	2920.0 14	1950.0 15	1210.0 20	717.0 25	656.0 22	582.0 12	478.0 12	414.0 15	395.0 13	339.0 3
1913	1490.0 35	1100.0 36	765.0 41	708.0 30	561.0 32	483.0 25	434.0 21	377.0 24	364.0 23	176.0 33
1914	1300.0 39	927.0 45	675.0 46	447.0 48	356.0 49	314.0 47	272.0 48	270.0 44	224.0 45	152.0 44
1915	985.0 49	767.0 49	662.0 47	540.0 44	454.0 43	430.0 33	416.0 25	395.0 20	307.0 26	190.0 30
1916	1230.0 42	985.0 41	897.0 34	601.0 39	473.0 41	370.0 45	297.0 43	260.0 45	211.0 42	121.0 48
1917	4900.0 6	3070.0 5	1580.0 15	966.0 15	731.0 13	529.0 16	445.0 20	380.0 23	308.0 12	292.0 8
1918	1670.0 30	1250.0 34	862.0 35	650.0 35	550.0 31	458.0 26	408.0 26	347.0 32	293.0 31	190.0 31
1919	1260.0 40	1020.0 38	726.0 44	456.0 47	363.0 48	318.0 46	286.0 45	293.0 41	272.0 36	188.0 32
1920	5630.0 3	3990.0 3	2440.0 3	1920.0 1	1310.0 1	826.0 1	598.0 5	533.0 3	415.0 7	228.0 20
1921	2590.0 18	1830.0 19	1040.0 26	694.0 32	527.0 34	504.0 21	468.0 14	427.0 12	389.0 14	252.0 13
1922	4290.0 8	2760.0 7	1550.0 9	805.0 23	560.0 38	386.0 37	392.0 29	347.0 30	303.0 29	267.0 12
1923	2320.0 20	1707.0 20	1150.0 21	732.0 26	570.0 28	501.0 22	456.0 17	396.0 19	360.0 15	264.0 24
1924	1870.0 26	1570.0 22	1090.0 24	1010.0 14	861.0 4	663.0 6	562.0 7	462.0 8	347.0 10	201.0 27
1925	1480.0 36	1040.0 37	649.0 48	468.0 46	374.0 46	329.0 44	283.0 46	285.0 43	261.0 40	160.0 41
1926	1530.0 34	1280.0 31	802.0 37	665.0 33	597.0 25	476.0 34	361.0 33	325.0 34	264.0 38	195.0 28
1927	1940.0 24	1450.0 26	970.0 29	593.0 41	567.0 37	389.0 36	375.0 31	375.0 25	332.0 21	271.0 23
1928	1610.0 32	1260.0 33	773.0 38	664.0 34	536.0 33	516.0 19	424.0 23	356.0 24	307.0 27	163.0 29
1929	3050.0 13	2160.0 13	1880.0 6	1160.0 7	728.0 14	449.0 29	474.0 13	400.0 18	399.0 11	292.0 9
1930	1790.0 27	1270.0 32	536.0 30	728.0 27	576.0 26	559.0 13	429.0 22	374.0 26	308.0 25	236.0 18
1931	1590.0 33	1320.0 30	907.0 33	608.0 34	570.0 29	487.0 24	455.0 18	405.0 16	343.0 20	222.0 22
1932	1680.0 29	1480.0 24	1340.0 16	960.0 17	609.0 18	543.0 15	459.0 16	418.0 13	376.0 22	218.0 24
1933	3690.0 9	2350.0 9	1500.0 11	1100.0 8	704.0 16	520.0 17	422.0 24	388.0 22	314.0 24	177.0 34
1934	1160.0 44	1000.0 40	855.0 36	641.0 36	513.0 36	367.0 41	328.0 37	300.0 39	240.0 44	169.0 45
1935	5340.0 5	3070.0 6	2040.0 5	1240.0 5	826.0 8	669.0 9	582.0 6	531.0 5	460.0 6	282.0 10
1936	3190.0 12	2240.0 11	1450.0 12	954.0 18	784.0 12	651.0 8	617.0 3	530.0 6	504.0 3	352.0 7
1937	2200.0 21	1470.0 25	1140.0 22	1020.0 13	807.0 11	652.0 7	553.0 9	518.0 7	489.0 4	276.0 11
1938	1070.0 40	879.0 47	684.0 45	528.0 45	417.0 45	301.0 49	327.0 39	289.0 32	257.0 42	161.0 39
1939	5970.0 4	3490.0 4	2120.0 4	1430.0 4	809.0 10	444.0 32	320.0 40	310.0 47	242.0 32	244.0 18
1940	7520.0 2	4990.0 2	2750.0 2	1520.0 3	1120.0 2	776.0 2	554.0 8	446.0 9	414.0 8	302.0 5
1941	1700.0 28	1350.0 27	1050.0 25	697.0 31	469.0 42	370.0 40	320.0 41	315.0 36	291.0 34	188.0 36
1942	3300.0 11	2000.0 14	1420.0 14	1060.0 11	837.0 5	736.0 3	648.0 2	647.0 1	540.0 2	300.0 6
1943	1100.0 46	773.0 48	518.0 49	427.0 49	367.0 47	330.0 43	274.0 47	236.0 48	225.0 46	156.0 42
1944	2620.0 16	1850.0 18	1240.0 19	901.0 19	567.0 30	454.0 28	391.0 30	394.0 21	357.0 16	300.0 7
1945	2860.0 15	2120.0 12	1510.0 10	1100.0 9	831.0 7	736.0 4	629.0 4	532.0 4	406.0 10	269.0 15
1946	2050.0 22	1500.0 23	1100.0 23	810.0 22	696.0 19	495.0 23	373.0 32	347.0 31	266.0 37	152.0 43
1947	1100.0 47	907.0 46	742.0 43	719.0 28	571.0 27	358.0 42	295.0 44	259.0 46	261.0 39	161.0 40
1948	1230.0 43	933.0 44	768.0 39	575.0 42	495.0 39	379.0 38	350.0 36	350.0 29	284.0 33	165.0 35
1949	1630.0 31	1340.0 28	913.0 31	566.0 43	428.0 44	303.0 48	262.0 49	225.0 49	182.0 49	107.0 49
1950	1330.0 37	1010.0 39	767.0 40	597.0 40	522.0 35	371.0 39	302.0 42	263.0 47	213.0 47	136.0 47
1951	1140.0 45	982.0 42	913.0 32	710.0 29	628.0 23	444.0 30	394.0 27	372.0 27	327.0 23	247.0 16
MEAN	2591.122	1791.326	1210.326	855.408	641.367	493.143	423.245	381.306	333.816	221.286
VARIANCE	3166661.000	1042512.000	300723.062	109479.687	37951.789	17703.133	11851.738	8878.980	8077.453	4746.012
STD DEV	1779.511	1021.035	548.382	330.877	194.812	133.053	108.866	94.228	89.875	68.891
SKEDNESS	1.839	1.883	1.572	1.402	1.087	.612	.576	.825	.907	1.004
SE OF SKEW	.340	.340	.340	.340	.340	.340	.340	.340	.340	.340
SER CORR	.038	.082	.066	.029	-.064	-.097	.001	-.002	.134	.190
C OF VAR	.687	.570	.453	.387	.304	.270	.257	.247	.269	.311

LOGS

MEAN OF	3.338	3.200	3.047	2.904	2.789	2.678	2.613	2.569	2.509	2.326
VAR OF	.060	.043	.030	.023	.016	.013	.012	.011	.013	.017
STD DEV OF	.246	.207	.173	.153	.126	.115	.110	.104	.112	.130
SKEW OF	.741	.709	.573	.444	.190	.101	.122	.200	.245	.139
SE OF SKEW OF	.340	.340	.340	.340	.340	.340	.340	.340	.340	.340
SER CORR OF	.040	.096	.071	.022	-.062	-.079	-.011	-.006	.100	.160
C OF VAR OF	.074	.065	.057	.053	.045	.043	.042	.040	.045	.056

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	796.952	672.853	521.323	396.999	325.759	261.727	232.693	219.957	185.351	108.505
1.05	980.726	805.987	619.885	471.405	387.462	309.963	272.747	253.485	214.956	130.690
1.11	1118.804	902.867	688.255	521.174	426.419	339.776	297.409	274.189	233.502	144.682
1.25	1340.395	1053.919	790.708	593.548	480.385	380.331	330.868	302.361	259.039	184.042
2.00	2030.202	1498.864	1071.893	781.952	609.311	474.163	407.961	367.663	319.466	210.142
5.00	3393.049	2307.765	1533.515	1068.877	782.955	594.889	506.694	452.128	399.913	271.860
10.00	4626.875	2990.380	1891.321	1277.934	897.335	671.485	569.152	506.051	452.476	312.275
25.00	6656.066	4047.690	2407.384	1564.568	1041.985	765.545	645.709	572.659	518.578	363.116
50.00	8575.980	4995.719	2841.343	1794.925	1150.176	834.092	701.428	621.486	567.804	400.956
100.00	10909.062	6098.391	3320.425	2040.141	1258.958	901.629	756.272	669.828	617.143	438.847

1-3880.00 RAMAPO RIVER AT POMPTON LAKES, N. J.
SUMMARY DURATION TABLE OF DAILY DISCHARGES

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	22	16801	100.0	9	9.30	87	16650	99.1	19	110.0	1716	10484	62.4	27	1400	138	288	1.7
1	1.00	1	16779	99.9	10	12.00	24	16563	98.6	19	150.0	1594	8768	52.2	28	1800	85	150	.8
2	1.30	2	16778	99.9	11	16.00	133	16539	98.4	20	200.0	1491	7174	42.7	29	2400	34	65	.3
3	1.70	9	16776	99.9	12	21.00	372	16406	97.6	21	260.0	1585	5683	33.8	30	3200	13	31	.1
4	2.30	0	16767	99.8	13	28.00	825	16034	95.4	22	350.0	1303	4008	24.4	31	4200	11	18	.1
5	3.00	40	16767	99.8	14	37.00	910	15209	90.5	23	460.0	1012	2795	15.6	32	5600	5	7	.0
6	4.00	38	16727	99.6	15	49.00	1215	14299	85.1	24	600.0	730	1783	10.6	33	7400	1	2	.0
7	5.30	13	16689	99.3	16	65.00	1284	13084	77.9	25	800.0	531	1053	6.3	34	9800	1	1	
8	7.00	26	16676	99.3	17	86.00	1316	11800	70.2	26	1100.0	234	522	3.1					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

RAMAPO RIVER AT POMPTON LAKES, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1922	0.0 1	3.7 4	35.6 31	38.4 29	41.8 29	45.9 24	50.7 21	69.5 22	108.0 23	271.0 24
1923	0.0 2	0.0 1	5.9 1	21.0 8	23.8 8	30.2 8	34.3 7	40.3 6	92.1 19	224.0 11
1924	1.4 5	4.9 5	20.0 10	27.8 18	40.4 27	50.3 26	61.7 26	79.3 24	95.1 20	301.0 29
1925	7.0 13	12.3 10	37.0 32	45.3 32	50.6 31	54.4 27	65.3 27	87.6 27	108.0 24	240.0 16
1926	2.0 6	2.3 2	7.1 2	27.6 17	27.8 12	39.9 18	58.5 25	84.8 26	98.8 21	251.0 19
1927	0.0 3	27.0 29	35.0 30	46.7 33	68.0 38	121.0 41	206.0 43	222.0 43	348.0 44	438.0 43
1928	3.0 7	21.7 18	26.4 22	39.3 30	47.3 30	58.5 30	67.1 28	90.4 28	181.0 34	342.0 37
1929	10.0 18	10.0 9	22.0 14	24.8 13	31.4 15	37.4 16	45.7 18	60.9 19	98.8 27	250.0 17
1930	4.0 10	9.3 8	17.4 9	20.2 7	23.6 7	30.9 10	38.6 12	43.5 11	77.6 15	170.0 5
1931	3.0 8	23.0 21	32.0 29	33.0 26	35.5 20	35.6 14	38.5 11	47.0 13	66.9 12	227.0 12
1932	3.0 9	3.0 3	12.6 5	15.1 3	16.5 3	20.6 3	24.8 3	37.9 4	76.4 13	266.0 22
1933	0.0 4	23.3 22	29.7 26	31.9 23	37.2 23	55.7 29	85.1 32	142.0 37	206.0 37	296.0 28
1934	3.0 15	23.7 23	30.9 28	31.4 22	34.8 19	43.8 22	80.9 30	128.0 35	193.0 36	311.0 32
1935	6.0 12	15.0 13	21.1 12	24.4 9	25.6 10	43.9 23	46.0 19	66.4 21	82.8 18	305.0 31
1936	9.0 16	17.0 15	21.7 13	24.7 12	28.9 13	35.3 12	37.5 10	51.3 15	77.6 14	291.0 27
1937	17.0 22	37.0 34	47.0 37	64.8 40	67.4 41	99.0 37	115.0 37	170.0 39	208.0 38	337.0 33
1938	53.0 41	58.0 42	61.0 41	63.7 39	75.8 40	158.0 44	219.0 44	268.0 46	307.0 43	380.0 39
1939	26.0 30	26.0 27	26.0 20	27.4 16	30.3 14	35.5 13	38.9 13	42.3 7	56.7 8	202.0 9
1940	43.0 37	45.7 39	47.1 38	49.6 34	63.9 35	95.5 35	104.0 36	107.0 31	166.0 33	305.0 35
1941	13.0 19	19.3 16	20.9 11	24.6 10	25.1 9	30.7 9	36.7 9	43.0 9	54.9 7	198.0 8
1942	59.0 43	62.3 43	73.6 43	100.0 44	109.0 43	129.0 42	148.0 39	175.0 40	226.0 39	338.0 34
1943	25.0 27	25.0 24	26.1 21	32.3 24	36.9 22	40.0 19	46.4 20	55.4 18	123.0 26	235.0 14
1944	25.0 28	25.0 25	25.0 17	28.4 19	32.4 17	34.9 11	43.4 17	43.3 10	66.6 11	269.0 23
1945	87.0 45	90.7 45	94.0 45	98.9 43	136.0 45	225.0 45	268.0 45	324.0 45	390.0 45	443.0 44
1946	30.0 34	33.0 33	37.3 33	40.3 31	52.6 32	66.9 36	116.0 38	125.0 33	140.0 30	250.0 18
1947	43.0 38	45.0 38	46.4 36	59.1 38	67.3 36	77.0 33	84.3 33	138.0 36	163.0 32	342.0 36
1948	27.0 31	27.3 30	29.3 23	30.1 21	31.8 16	35.8 15	41.1 15	50.9 14	79.4 17	303.0 30
1949	25.0 29	25.0 26	25.0 18	26.5 15	35.7 21	37.5 17	39.9 14	51.8 16	52.5 6	193.0 6
1950	40.0 36	40.0 35	40.0 34	50.4 35	62.1 34	76.1 32	80.8 29	87.8 25	134.0 28	356.0 38
1951	73.0 44	73.0 44	77.6 44	84.6 42	94.1 42	115.0 40	164.0 40	158.0 38	189.0 35	405.0 42
1952	53.0 42	54.7 41	58.7 40	66.2 41	73.0 39	104.0 39	180.0 41	194.0 41	245.0 40	469.0 45
1953	21.0 24	22.3 19	22.7 15	24.7 11	26.1 11	29.2 6	36.6 8	42.7 8	57.0 9	207.0 10
1954	19.0 23	21.7 17	25.3 19	28.5 20	34.5 18	40.3 20	53.7 22	104.0 30	138.0 29	239.0 15
1955	23.0 25	23.0 20	23.6 16	26.1 14	34.8 26	75.3 31	83.2 31	127.0 34	260.0 41	387.0 40
1956	44.0 39	44.0 37	46.1 35	54.4 37	60.1 33	102.0 38	91.4 35	114.0 32	147.0 31	275.0 25
1957	16.0 21	16.0 14	16.9 8	17.7 5	19.8 4	23.6 4	29.0 4	45.5 12	49.5 5	291.0 26
1958	28.0 32	28.0 31	29.7 24	38.1 28	41.5 28	48.1 25	56.5 24	70.3 23	113.0 25	258.0 21
1959	39.0 35	40.7 36	49.7 39	53.4 36	67.8 37	88.0 34	91.0 34	97.2 29	126.0 27	254.0 20
1960	49.0 40	54.0 40	71.4 42	111.0 45	119.0 44	142.0 43	184.0 42	199.0 42	273.0 42	392.0 41
1961	28.0 33	28.0 32	29.7 25	35.4 27	39.3 25	54.4 28	56.3 23	61.0 20	77.7 16	232.0 13
1962	25.0 26	27.0 28	29.9 27	32.5 25	37.4 24	40.4 21	42.8 16	52.1 17	66.1 10	170.0 6
1963	10.0 17	14.0 11	16.0 6	17.5 4	20.5 5	29.3 7	30.2 6	38.2 5	49.2 4	134.0 3
1964	8.0 14	8.0 7	8.3 3	8.9 1	9.9 1	16.6 1	19.1 1	21.0 1	32.1 1	117.0 2
1965	13.0 20	15.0 12	16.9 7	19.0 6	21.1 6	25.4 5	29.7 5	34.5 3	43.1 2	91.6 1
1966	5.0 11	5.0 6	8.6 4	12.3 2	15.2 2	17.0 2	21.1 2	27.3 2	47.2 3	168.0 4

	1†	3†	7	14	30	60	90	120	183	ANNUAL
MEAN	24.985	27.952	32.982	39.511	46.591	62.775	77.618	95.849	133.313	276.835
VARIANCE	418.248	373.500	380.982	550.960	796.929	1887.903	3408.435	4507.598	7413.145	7423.656
STD DEV	20.451	19.326	19.519	23.473	28.230	43.450	58.382	67.139	86.100	86.161
SKENNESS	1.105	1.199	1.244	1.499	1.418	1.674	1.623	1.521	1.237	.158
SE OF SKEW	.369	.357	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR	.403	.298	.133	.110	.108	.105	.098	.061	.037	.271
C OF VAR	.819	.691	.592	.594	.606	.692	.752	.700	.646	.311

LOGS

MEAN OF	1.216	1.327	1.444	1.532	1.599	1.713	1.793	1.891	2.043	2.419
VAR OF	.205	.132	.071	.056	.062	.072	.081	.078	.072	.023
STD DEV OF	.452	.364	.267	.237	.248	.268	.284	.279	.269	.150
SKEW OF	-.621	-.876	-.444	.137	.049	.365	.478	.279	.167	-.856
SE OF SKEW OF	.369	.357	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR OF	.698	.386	.155	.233	.228	.197	.210	.184	.167	.441
C OF VAR OF	.372	.274	.185	.155	.155	.156	.158	.148	.131	.062

† Zero flow values excluded in computation of statistics.

1-3880.00

HIGHEST MEAN D'SCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

RAMAPO RIVER AT POMPTON LAKES, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1922	4340.0 11	2650.0 13	1790.0 13	1280.0 14	987.0 11	706.0 17	598.0 18	526.0 18	437.0 20	270.0 24
1923	2230.0 27	1980.0 21	1500.0 22	1240.0 15	907.0 17	632.0 24	502.0 30	448.0 28	361.0 30	204.0 38
1924	5300.0 8	3450.0 6	2200.0 7	1590.0 10	977.0 12	799.0 9	640.0 11	543.0 15	509.0 13	308.0 17
1925	2970.0 17	2220.0 17	1650.0 16	1110.0 19	878.0 19	669.0 19	507.0 28	434.0 29	377.0 37	216.0 33
1926	1830.0 33	1610.0 30	1230.0 29	977.0 22	733.0 28	619.0 25	502.0 29	424.0 37	400.0 25	244.0 29
1927	6670.0 4	4310.0 3	2730.0 5	1820.0 6	1030.0 9	644.0 23	455.0 32	428.0 30	394.0 26	353.0 11
1928	3370.0 15	2620.0 14	1550.0 14	990.0 25	606.0 18	786.0 10	640.0 12	562.0 12	550.0 7	476.0 2
1929	1940.0 31	1500.0 33	1080.0 34	948.0 20	750.0 26	683.0 18	608.0 16	527.0 17	419.0 22	239.0 32
1930	1650.0 37	1210.0 38	898.0 39	695.0 40	459.0 43	414.0 38	364.0 39	360.0 37	314.0 38	212.0 35
1931	1240.0 44	1040.0 42	863.0 40	657.0 37	506.0 36	553.0 31	527.0 24	493.0 24	392.0 27	241.0 30
1932	1670.0 36	1210.0 39	1020.0 35	646.0 38	510.0 38	359.0 41	345.0 40	316.0 41	250.0 42	144.0 43
1933	4940.0 9	3310.0 9	1820.0 12	1310.0 12	954.0 15	719.0 13	601.0 17	509.0 20	525.0 11	383.0 6
1934	2250.0 26	1720.0 29	1150.0 31	840.0 33	700.0 32	592.0 26	532.0 23	450.0 27	388.0 28	256.0 26
1935	1600.0 39	1300.0 37	900.0 38	665.0 44	462.0 42	401.0 39	367.0 38	373.0 36	348.0 32	241.0 31
1936	10400.0 1	6180.0 1	3670.0 1	2910.0 1	1910.0 1	1200.0 1	869.0 1	769.0 2	592.0 5	327.0 14
1937	2970.0 20	2300.0 16	1390.0 24	952.0 26	725.0 30	653.0 21	623.0 15	579.0 10	520.0 12	340.0 12
1938	5680.0 7	3580.0 4	2050.0 9	1260.0 28	864.0 27	575.0 29	573.0 21	500.0 22	429.0 21	369.0 8
1939	2930.0 18	2190.0 13	1530.0 19	1010.0 24	723.0 20	739.0 12	681.0 9	592.0 9	523.0 10	307.0 18
1940	2720.0 21	1960.0 23	1530.0 20	1010.0 9	820.0 3	937.0 5	809.0 5	667.0 7	500.0 14	293.0 21
1941	1750.0 35	1330.0 36	859.0 41	606.0 39	499.0 40	437.0 37	378.0 37	383.0 34	348.0 33	214.0 34
1942	1870.0 32	1510.0 32	984.0 37	800.0 32	760.0 24	553.0 30	472.0 31	424.0 31	343.0 34	255.0 27
1943	2610.0 22	1970.0 22	1340.0 25	821.0 35	661.0 34	523.0 34	512.0 27	505.0 21	443.0 18	297.0 21
1944	1970.0 30	1570.0 31	1100.0 33	960.0 24	767.0 25	718.0 14	588.0 19	494.0 23	408.0 24	261.0 25
1945	5880.0 6	3680.0 7	2870.0 2	1750.0 8	1090.0 6	652.0 22	635.0 13	554.0 14	563.0 6	406.0 3
1946	2420.0 24	1780.0 28	1310.0 26	978.0 21	718.0 31	710.0 16	549.0 22	488.0 25	417.0 23	324.0 15
1947	2440.0 23	1880.0 25	1270.0 28	816.0 34	609.0 22	654.0 20	625.0 14	560.0 13	468.0 16	303.0 19
1948	2160.0 28	1990.0 20	1750.0 14	1270.0 16	940.0 16	751.0 11	649.0 10	596.0 8	470.0 15	308.0 16
1949	4770.0 10	3190.0 10	2070.0 8	1480.0 7	940.0 13	713.0 15	582.0 20	540.0 16	448.0 19	246.0 28
1950	1620.0 38	1410.0 35	1160.0 30	867.0 41	610.0 33	693.0 35	467.0 33	411.0 33	331.0 36	208.0 36
1951	7200.0 3	4170.0 5	2730.0 4	1640.0 5	1100.0 4	873.0 6	785.0 8	730.0 3	631.0 4	400.0 4
1952	4280.0 12	2870.0 11	1850.0 11	1290.0 17	1030.0 10	844.0 8	837.0 3	712.0 4	606.0 1	486.0 1
1953	2920.0 19	1950.0 24	1520.0 21	1010.0 18	1060.0 8	862.0 7	734.0 7	688.0 6	640.0 3	360.0 10
1954	1250.0 45	968.0 45	726.0 45	588.0 47	428.0 47	309.0 44	303.0 42	267.0 42	259.0 41	175.0 40
1955	6380.0 5	4300.0 4	2590.0 6	1740.0 6	1040.0 14	924.0 32	889.0 35	749.0 39	639.0 35	290.0 22
1956	9750.0 2	6040.0 2	3430.0 2	1980.0 2	1400.0 2	973.0 2	698.0 8	567.0 11	542.0 8	396.0 5
1957	2100.0 29	1820.0 26	1410.0 23	946.0 27	604.0 35	480.0 36	396.0 34	378.0 35	351.0 31	208.0 37
1958	3950.0 13	2550.0 15	1730.0 15	1350.0 11	1060.0 7	972.0 3	861.0 2	788.0 1	665.0 2	368.0 9
1959	1370.0 41	960.0 46	630.0 46	483.0 46	371.0 46	332.0 43	279.0 43	253.0 43	236.0 43	177.0 39
1960	3250.0 16	2090.0 19	1580.0 17	1160.0 18	832.0 29	590.0 27	517.0 26	519.0 19	448.0 17	381.0 7
1961	3520.0 14	2780.0 12	1960.0 10	1430.0 8	1090.0 5	965.0 4	827.0 4	696.0 5	530.0 9	328.0 13
1962	2330.0 25	1780.0 27	1290.0 27	918.0 29	760.0 23	524.0 33	383.0 36	341.0 40	259.0 40	156.0 42
1963	1210.0 46	988.0 44	816.0 43	732.0 38	576.0 37	341.0 42	255.0 44	231.0 44	220.0 44	140.0 44
1964	1310.0 42	998.0 43	820.0 42	604.0 41	503.0 39	375.0 40	327.0 41	352.0 38	276.0 39	162.0 41
1965	1820.0 34	1470.0 34	996.0 36	867.0 43	796.0 45	247.0 46	192.0 46	161.0 46	127.0 46	80.3 46
1966	1440.0 40	1120.0 41	762.0 44	643.0 45	477.0 41	294.0 45	274.0 45	183.0 45	138.0 45	90.9 45
1967	1310.0 43	1200.0 40	1120.0 32	914.0 30	802.0 21	581.0 28	523.0 25	487.0 26	379.0 29	276.0 23
MEAN	3252.391	2284.869	1548.348	1086.565	815.696	629.956	537.174	481.630	416.217	276.504
VARIANCE	4706405.000	1562401.000	495450.250	207851.000	81567.812	43288.441	30218.574	21971.770	17253.793	8631.105
STD DEV	2169.425	1249.960	703.882	455.907	285.601	208.059	173.835	148.229	131.354	92.904
SKWENESS	1.665	1.482	1.256	1.522	1.203	.335	.055	-.027	-.025	.072
SE OF SKEW	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR	-.023	.056	.040	-.046	-.093	-.001	.107	.131	.201	.252
C OF VAR	.667	.547	.455	.420	.350	.330	.324	.308	.316	.336

LOGS

MEAN OF	3.436	3.305	3.151	3.002	2.887	2.774	2.705	2.659	2.594	2.413
VAR OF	.062	.045	.034	.029	.022	.024	.025	.023	.025	.028
STD DEV OF	.249	.213	.183	.171	.149	.154	.157	.153	.159	.168
SKW OF	.578	.442	.302	.118	-.103	-.527	-.737	-1.013	-1.113	-1.010
SE OF SKEW OF	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR OF	.027	.122	.102	.022	-.023	.119	.213	.225	.308	.349
C OF VAR OF	.073	.064	.058	.057	.052	.056	.058	.058	.061	.070

1-3880.00 RAMAPO RIVER AT POMPTON LAKES, N. J.

STATISTICS OF MONTHLY MEANS, 1922-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1922-1967

	MEAN	STD DEV	SKREW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKREW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	143.3	178.3	4.390	1.244	4.314	.307	1.989	.3627	.4168	.1823	7.299	.544
NOV	251.8	215.7	1.325	.8567	7.578	.546	2.239	.3952	-.0726	.1765	8.215	.614
DEC	295.5	195.5	.5739	.6613	8.893	.372	2.362	.3263	-.2472	.1381	8.667	.571
JAN	311.0	180.6	.8450	.5807	9.360	.539	2.415	.2783	-.5185	.1153	8.858	.547
FEB	339.3	165.6	.7511	.4882	10.21	.185	2.478	.2224	-.2881	.0898	9.090	.164
MAR	558.4	264.3	.1677	.4734	16.80	.005	2.704	.1966	-.0982	.0727	9.919	.021
APR	500.3	253.2	.3777	.5060	15.05	.374	2.628	.2804	-1.202	.1067	9.642	.445
MAY	316.4	169.0	.3887	.5340	9.522	.419	2.429	.4671	-.4557	.1100	8.909	.516
JUN	180.9	132.2	1.675	.7308	5.443	.532	2.165	.2798	.3254	.1293	7.942	.662
JUL	132.2	151.6	3.428	.1147	3.977	.438	1.959	.3577	.5000	.1826	7.185	.769
AUG	148.0	182.3	2.193	1.232	4.453	.298	1.928	.4405	.6525	.2284	7.074	.607
SEP	146.0	160.8	2.018	1.101	4.394	.598	1.962	.4163	.2889	.2122	7.199	.731

1-3885.00 POMPTON RIVER AT POMPTON PLAINS, N. J.

Location.--Lat 40°58'09", long 74°17'29", 100 ft upstream from Jackson Avenue Bridge.

Drainage area.--355 sq mi.

Remarks.--Regulation reduces flood peaks and augments low flow. Diversions very significant at all flows.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1904	27	19					9				31	3	16	3	24	14	53	30	28	19	21	21	15	15	5	5	1	1	1		2		2	1		231678.0		
1941							7	26	25	32	27	20	13	39	25	34	38	16	12	16	16	7	6	3	2	1										127309.0		
1942							9	10	19	21	19	18	22	32	41	35	27	19	18	18	20	10	7	11	2	4	3									139423.0		
1943							2	31	18	21	14	10	5	12	11	34	46	42	31	25	20	6	18	14			2	1	2							191188.0		
1944							10	35	43	16	33	22	24	27	25	20	16	20	11	17	15	12	7	8	2	2	1									136812.0		
1945							3	16	17	10	3	8	18	26	27	22	28	25	27	30	19	24	22	11	12	8	3	1	1	1	1	1	1	1		226858.0		
1946									2	9	29	23	32	38	43	31	27	31	18	16	12	11	11	14	9	4	4	1								200748.0		
1947									2	10	44	33	30	34	29	29	39	32	22	12	13	11	9	10	2	2	1	1								164691.0		
1948							9	24	13	24	19	11	23	39	32	22	17	31	30	16	15	11	7	11	6	5	1									173299.0		
1949	1						3	46	62	27	42	19	8	4	8	16	22	27	28	21	11	6	6	3	1		1	2		1						137776.0		
1950							3	21	35	31	62	14	29	29	28	25	27	16	18	10	6	5	3	2	1											102423.0		
1951									5	15	62	24	24	24	12	18	22	15	22	21	31	23	14	12	9	1	5	3	1			1		1		243690.0		
1952									15	20	16	27	20	16	27	37	30	24	28	24	19	23	15	8	8	3	2	2	1	1						331636.0		
1953							11	21	9	23	11	36	21	21	17	4	11	19	16	18	25	26	15	14	9	15	9	6	6	1	1					248105.0		
1954							7	27	39	31	30	51	27	23	33	25	18	18	9	11	7	5	2	2												94476.0		
1955							10	8	6	6	52	44	27	35	20	41	38	18	12	16	10	8	2	3	2	2	1		1	1		1	1			158198.0		
1956									15	31	28	28	33	26	20	28	25	24	26	16	8	14	19	9	8	2		2	1			1		1	1	261015.0		
1957							4	22	24	18	29	29	21	21	46	34	25	23	21	14	17	3	4	3	2	1	2	1	1							115898.0		
1958								13	29	38	43	36	20	16	23	12	9	12	7	5	13	17	20	13	13	16	4	3	1	2						238308.0		
1959									19	46	62	58	44	27	22	27	23	20	6	4	3	1	3													104777.0		
1960									2	8	14	19	36	32	36	54	46	25	23	20	11	17	7	6	2	3	2	2	1							225177.0		
1961									7	29	20	21	28	46	53	43	12	14	9	15	12	20	17	10	5	1	2	1								216690.0		
1962								2	47	40	79	58	41	28	12	10	6	7	5	9	6	4	6	3	1		1									90687.0		
1963							5	4	16	27	22	93	69	30	25	13	8	9	9	9	8	2	5	1												82698.0		
1964							2	3	25	16	32	17	26	36	56	21	25	17	16	11	16	13	16	9	6	1	2									92174.0		
1965	1	4	16	19	47	52	35	39	56	45	14	8	5	7	3	5	1	2								2										42709.0		
1966	3	19	27	8	15	24	80	72	24	19	12	15	8	6	6	4	7	2	4	4	3	2	1													50348.0		
1967							11	3	7	5	15	38	41	25	19	31	27	32	20	16	20	15	17	9	6	4	4									162247.0		
CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT				
0	0.00	28	10227	100.0	9	90.00	579	8688	85.0	18	560.0	479	2346	22.9	27	3400	28	66	.6	36	10800	980	8688	85.0	45	13500	10227	100.0	54	15120	11727	115.5	63	17640	13000	127.0		
1	18.00	23	10199	99.7	10	110.00	990	8109	79.3	19	680.0	434	1867	18.3	28	4200	12	38	.3	37	10360	1099	8868	86.7	46	13680	11019	107.7	55	15300	12197	119.2	64	17800	13177	128.7		
2	22.00	23	10176	99.5	11	140.00	799	7119	69.6	20	830.0	380	1433	14.0	29	5100	12	26	.2	38	10540	1149	8748	85.5	47	13940	11241	109.8	56	15460	12361	121.1	65	17960	13301	130.1		
3	27.00	45	10153	99.3	12	170.00	647	6320	61.8	21	1000.0	276	1053	10.3	30	6200	2	14	.1	39	10700	1163	8868	86.7	48	14200	11461	111.3	57	15620	12541	123.6	66	18080	13481	132.6		
4	33.00	30	10108	98.8	13	200.00	753	5673	55.5	22	1200.0	254	777	7.6	31	7600	5	12	.1	40	10860	1178	8948	86.7	49	14460	11681	113.9	58	15780	12721	125.9	67	18240	13661	134.1		
5	40.00	130	10078	98.5	14	250.00	635	4920	48.1	23	1500.0	207	523	5.1	32	9400	3	7	.0	41	11020	1192	9028	87.5	50	14720	11901	116.1	59	15940	12901	128.1	68	18400	13841	136.4		
6	49.00	228	9948	97.3	15	300.00	668	4285	41.9	24	1900.0	127	316	3.1	33	11000	2	4	.0	42	11180	1206	9118	88.3	51	14980	12121	118.3	60	16100	13081	130.3	69	18560	14021	138.7		
7	60.00	474	9720	95.0	16	370.00	680	3617	35.4	25	2300.0	80	189	1.8	34	14000	2	2	.0	43	11340	1222	9208	89.1	52	15140	12341	120.5	61	16260	13261	132.5	70	18720	14201	140.9		
8	74.00	558	9246	90.4	17	450.00	591	2937	28.7	26	2800.0	43	109	1.1																						19000	14381	143.1

1-3885.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

POMPTON RIVER AT POMPTON PLAINS, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1903	50.0 10	50.0 9	50.0 7	50.0 4	73.5 12	307.0 26	321.0 26	432.0 26	512.0 26	739.0 26
1941	41.0 5	41.0 4	43.7 4	51.6 6	58.8 6	65.6 5	73.7 5	81.4 6	103.0 6	315.0 7
1942	67.0 17	71.0 18	83.9 19	116.0 22	134.0 22	172.0 22	215.0 22	251.0 22	352.0 27	570.0 21
1943	55.0 13	57.0 13	58.7 12	66.4 13	72.7 11	77.1 9	82.6 11	95.0 11	212.0 16	347.0 9
1944	47.0 7	47.3 6	52.7 8	56.2 8	61.9 7	71.8 8	78.7 8	77.1 4	103.0 7	389.0 11
1945	117.0 27	132.0 27	130.0 27	150.0 26	204.0 27	346.0 27	397.0 27	499.0 27	627.0 27	732.0 25
1946	75.0 20	93.0 22	104.0 22	108.0 21	120.0 21	162.0 20	197.0 21	223.0 21	237.0 19	394.0 12
1947	66.0 16	67.7 16	77.4 18	98.4 18	109.0 19	116.0 16	132.0 17	193.0 20	243.0 20	510.0 19
1948	55.0 14	56.0 11	56.6 10	59.4 11	62.7 8	68.9 7	75.3 7	87.1 7	122.0 10	464.0 16
1949	15.0 1	59.7 14	63.9 14	67.8 14	76.5 14	81.2 12	81.9 10	93.4 10	91.3 4	279.0 6
1950	74.0 19	74.0 19	77.0 17	86.2 17	99.4 17	107.0 15	111.0 15	115.0 13	187.0 13	540.0 20
1951	117.0 25	114.0 25	116.0 24	124.0 24	135.0 24	174.0 22	252.0 23	283.0 22	291.0 21	721.0 27
1952	110.0 26	114.0 26	124.0 26	138.0 25	155.0 25	180.0 24	320.0 25	334.0 25	419.0 23	892.0 27
1953	48.0 9	48.0 7	49.3 6	51.1 5	52.0 4	62.2 4	69.3 4	80.1 5	104.0 8	359.0 10
1954	53.0 11	54.7 10	59.7 13	62.7 12	71.0 10	78.2 11	96.1 12	158.0 16	197.0 15	346.0 8
1955	53.0 12	56.3 12	57.3 11	59.1 10	76.0 13	121.0 17	128.0 16	176.0 18	424.0 24	656.0 22
1956	90.0 21	90.3 20	93.3 20	105.0 20	111.0 20	164.0 21	155.0 19	189.0 19	223.0 18	456.0 15
1957	47.0 8	48.7 8	53.9 9	56.2 9	57.4 5	65.8 6	75.0 6	93.2 9	103.0 5	481.0 18
1958	63.0 15	63.7 15	69.4 15	80.4 16	86.9 15	90.9 13	107.0 14	129.0 14	187.0 14	465.0 17
1959	90.0 22	96.7 23	107.0 23	117.0 23	135.0 23	160.0 19	167.0 20	174.0 17	219.0 17	414.0 14
1960	92.0 23	100.0 24	121.0 25	175.0 27	178.0 26	213.0 25	284.0 24	335.0 24	472.0 25	661.0 23
1961	92.0 24	92.0 21	95.6 21	103.0 19	108.0 18	126.0 18	137.0 18	151.0 15	168.0 12	410.0 13
1962	69.0 13	70.7 17	74.9 16	78.1 15	88.9 16	91.3 14	97.1 13	107.0 12	129.0 11	262.0 4
1963	44.0 6	44.0 5	48.4 5	55.1 7	64.3 9	77.3 10	81.6 9	90.8 8	100.0 9	216.0 3
1964	32.0 4	34.7 3	36.3 3	38.7 3	42.7 3	50.8 3	50.6 3	53.3 2	69.1 2	181.0 2
1965	20.0 3	23.7 2	28.0 2	29.6 2	34.1 2	41.7 2	47.3 2	53.5 3	68.6 1	135.0 1
1966	18.0 2	19.3 1	21.7 1	26.6 1	29.3 1	33.0 1	38.8 1	46.1 1	79.1 3	277.0 5
MEAN	62.704	67.389	72.581	81.837	92.522	122.363	143.370	169.481	223.744	452.629
VARIANCE	769.830	802.132	932.434	1423.229	1885.705	5789.699	9169.082	13686.754	22674.648	35776.820
STD DEV	27.746	28.322	30.536	37.726	43.425	76.090	95.755	116.990	150.581	189.148
SKEWNESS	.251	.515	.471	.724	.854	1.508	1.257	1.415	1.206	.505
SE OF SKEW	.448	.448	.448	.448	.448	.448	.448	.448	.448	.448
SER CORR	.374	.421	.434	.354	.271	.068	.112	.020	-.041	.257
C OF VAR	.442	.420	.421	.461	.469	.622	.668	.690	.673	.418
LOGS										
MEAN OF	1.747	1.788	1.821	1.867	1.920	2.017	2.073	2.141	2.263	2.616
VAR OF	.053	.040	.039	.043	.043	.063	.073	.077	.078	.039
STD DEV OF	.231	.199	.197	.207	.208	.250	.270	.277	.279	.197
SKEW OF	-.960	-.610	-.484	-.220	-.205	.194	.312	.287	.250	-.530
SE OF SKEW OF	.448	.448	.448	.448	.448	.448	.448	.448	.448	.448
SER CORR OF	.401	.575	.560	.491	.422	.249	.260	.191	.149	.439
C OF VAR OF	.132	.111	.108	.111	.109	.124	.130	.130	.123	.075

1-3885.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

POMPTON RIVER AT POMPTON PLAINS, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1904	28300.0 1	16300.0 1	8670.0 1	4540.0 1	2510.0 2	1440.0 7	1170.0 7	986.0 7	977.0 6	633.0 6
1941	2350.0 21	1860.0 22	1340.0 22	1140.0 21	899.0 21	723.0 21	637.0 18	629.0 17	563.0 17	349.0 19
1942	2720.0 19	2170.0 20	1440.0 21	1240.0 18	1110.0 18	797.0 18	683.0 17	616.0 18	504.0 19	382.0 16
1943	4090.0 12	3170.0 12	2200.0 16	1390.0 17	1270.0 15	944.0 16	921.0 14	905.0 10	792.0 9	524.0 11
1944	3010.0 17	2390.0 18	1720.0 19	1460.0 16	1170.0 16	1050.0 13	852.0 15	712.0 16	579.0 16	374.0 17
1945	8180.0 6	6110.0 6	4990.0 4	3060.0 4	1880.0 7	1090.0 12	1010.0 9	932.0 9	897.0 8	622.0 7
1946	3530.0 14	2890.0 14	2370.0 13	1810.0 13	1310.0 13	1280.0 8	974.0 10	842.0 14	704.0 12	550.0 10
1947	3510.0 15	2560.0 16	1770.0 17	1200.0 20	1160.0 17	969.0 15	950.0 12	853.0 13	690.0 13	451.0 13
1948	2970.0 18	2660.0 15	2520.0 12	1890.0 12	1440.0 11	1120.0 9	1030.0 8	937.0 8	728.0 11	473.0 12
1949	5980.0 7	4030.0 10	2670.0 11	1950.0 11	1280.0 14	994.0 14	823.0 16	782.0 15	633.0 15	364.0 18
1950	2130.0 23	1860.0 23	1510.0 20	1120.0 22	885.0 22	660.0 22	585.0 21	546.0 20	439.0 21	281.0 22
1951	11700.0 3	8180.0 3	5530.0 3	3390.0 3	2320.0 3	1770.0 3	1510.0 3	1290.0 4	1090.0 4	668.0 4
1952	9180.0 5	6140.0 5	3980.0 6	2620.0 7	2080.0 6	1750.0 5	1720.0 1	1430.0 2	1350.0 1	906.0 1
1953	5520.0 9	4230.0 9	3010.0 9	2610.0 8	2170.0 5	1760.0 4	1500.0 4	1380.0 3	1270.0 2	680.0 3
1954	1610.0 26	1350.0 25	1030.0 26	841.0 24	623.0 25	451.0 26	449.0 24	396.0 25	375.0 24	259.0 23
1955	10600.0 4	8110.0 4	4400.0 5	2980.0 5	1620.0 9	885.0 17	627.0 19	509.0 21	491.0 20	433.0 15
1956	14030.0 2	11000.0 2	6840.0 2	3730.0 2	2760.0 1	1880.0 2	1330.0 6	1060.0 6	984.0 5	713.0 2
1957	3560.0 13	3040.0 13	2330.0 14	1550.0 15	1040.0 19	769.0 19	620.0 20	559.0 19	514.0 18	318.0 20
1958	5620.0 8	4570.0 7	3470.0 7	2890.0 6	2260.0 4	1890.0 4	1670.0 2	1450.0 1	1170.0 3	653.0 5
1959	1870.0 24	1250.0 28	867.0 28	633.0 28	553.0 27	525.0 23	444.0 25	400.0 24	366.0 25	287.0 21
1960	5290.0 10	4440.0 8	3310.0 8	2340.0 9	1440.0 12	1100.0 10	937.0 13	888.0 11	751.0 10	615.0 8
1961	4880.0 11	3810.0 11	2710.0 10	2040.0 10	1760.0 8	1740.0 6	1490.0 5	1230.0 5	943.0 7	594.0 9
1962	3020.0 16	2310.0 19	1720.0 18	1210.0 19	1030.0 20	723.0 20	540.0 22	488.0 23	384.0 23	248.0 25
1963	1540.0 28	1290.0 26	1090.0 24	995.0 23	788.0 23	481.0 25	374.0 26	342.0 26	330.0 26	227.0 26
1964	1590.0 27	1290.0 27	1090.0 25	797.0 25	662.0 24	519.0 24	451.0 23	490.0 22	398.0 22	252.0 24
1965	2220.0 22	1870.0 21	1300.0 23	760.0 26	521.0 28	326.0 28	258.0 28	219.0 28	178.0 28	117.0 28
1966	1830.0 25	1430.0 24	969.0 27	694.0 27	622.0 26	403.0 27	309.0 27	257.0 27	200.0 27	128.0 27
1967	2690.0 20	2430.0 17	2260.0 15	1800.0 14	1570.0 10	1090.0 11	959.0 11	857.0 12	656.0 14	445.0 14
MEAN	5488.926	4026.428	2753.786	1881.428	1383.321	1040.321	886.536	784.821	675.214	448.428
VARIANCE	30843168.000	11548937.000	3562698.000	1035470.187	399654.625	234669.812	177695.812	124699.875	96598.937	37815.715
STD DEV	5553.660	3398.373	1887.511	1017.580	632.182	484.427	421.540	353.129	310.803	194.463
SKEWNESS	2.899	2.224	1.627	.883	.554	.458	.485	.349	.459	.291
SE OF SKEW	.441	.441	.441	.441	.441	.441	.441	.441	.441	.441
SER CORR	.026	.065	.028	.019	-.006	.067	.146	.137	.214	.249
C OF VAR	1.012	.844	.685	.541	.457	.466	.475	.450	.460	.434

LOGS

	3.607	3.497	3.357	3.214	3.095	2.968	2.896	2.846	2.779	2.606
MEAN OF	.102	.087	.071	.056	.043	.047	.050	.048	.050	.047
VAR OF	.320	.295	.267	.237	.208	.217	.224	.219	.223	.216
STD DEV OF	.819	.640	.371	.007	-.193	-.310	-.369	-.568	-.587	-.734
SKEW OF	.441	.441	.441	.441	.441	.441	.441	.441	.441	.441
SE OF SKEW OF	.074	.081	.053	.058	.054	.183	.250	.229	.298	.347
SER CORR OF	.089	.084	.079	.074	.067	.073	.077	.077	.080	.083
C OF VAR OF										

STATISTICS OF MONTHLY MEANS, 1904; 1941-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1904; 1941-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	334.2	567.5	3.285	1.698	6.206	.136d	2.264	.4052	1.370	.1790	7.612	.540d
NOV	392.1	305.6	1.550	.7796	7.282	.532	2.465	.3561	-.2149	.1445	8.287	.625
DEC	478.2	318.4	.7824	.6658	8.882	.378	2.579	.3130	-.1705	.1214	8.671	.549
JAN	469.9	320.4	1.140	.6819	8.727	.743	2.576	.3020	-.1756	.1172	8.662	.745
FEB	508.8	269.5	1.254	.5297	9.451	.484	2.652	.2222	.0194	.0838	8.918	.486
MAR	883.4	444.6	.5002	.5032	16.41	.476	2.888	.2380	-.4240	.0824	9.711	.386
APR	837.4	550.9	.6569	.6579	15.55	.658	2.810	.3506	-.7518	.1248	9.449	.633
MAY	522.0	325.2	.5015	.6230	9.696	.500	2.623	.3078	-.2832	.1174	8.819	.583
JUN	288.5	249.8	2.553	.8659	5.358	.573	2.353	.2955	.5240	.1256	7.911	.700
JUL	214.5	274.9	4.330	1.282	3.984	.275	2.178	.3370	.6136	.1547	7.325	.732
AUG	242.7	315.7	2.821	1.301	4.507	.240	2.161	.4144	.8354	.1918	7.266	.580
SEP	212.5	207.8	2.351	.9776	3.947	.466	2.191	.3275	.7224	.1494	7.369	.619

d Serial correlation coefficient: computed from non-continuous arrays of monthly mean discharges.

1-3895.00 PASSAIC RIVER AT LITTLE FALLS, N. J.

(published as "at Paterson" prior to 1956)

Location--Lat 40°53'05", long 74°13'35", 0.6 mile downstream from Beatties Dam.Drainage area--762 sq mi.Remarks--Regulation reduces flood peaks and augments low flow. Diversion very significant at all flows.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																			EFF. DAYS	
1898																																					558701.0
1899																																					570249.0
1900	1								2						1	1	8	8	38	57	42	34	31	24	25	23	17	27	13	6	4	4				383423.0	
1901																																					456969.0
1902																																					609001.0
1903																																					873766.0
1904	3									1	1		3	2	1	5	16	16	40	31	56	40	32	29	28	28	16	6	3	3	2	1	2	1		547440.0	
1905	2	1					1			1			1				2	4	18	14	32	30	47	49	42	45	21	16	15	4	6	9	5			370370.0	
1906																																					444856.0
1907																																					357206.0
1908																																					808856.0
1909																																					375517.0
1910																																					393900.0
1911																																					259662.0
1912																																					479540.0
1913																																					466704.0
1914																																					436481.0
1915																																					436075.0
1916																																					482360.0
1917																																					208053.0
1918																																					286372.0
1919																																					426800.0
1920																																					615630.0
1921																																					494510.0
1922																																					385201.0
1923																																					272200.0
1924																																					474136.0
1925																																					326493.0
1926																																					386499.0
1927																																					628256.0
1928																																					690094.0
1929																																					334649.0
1930																																					263791.0
1931																																					300742.0
1932																																					193915.0
1933																																					620246.0
1934																																					376632.0
1935																																					367756.0
1936																																					511793.0
1937																																					437484.0
1938																																					549522.0
1939																																					501186.0
1940																																					408229.0
1941																																					342599.0
1942																																					376294.0
1943																																					477116.0
1944																																					346983.0
1945																																					552789.0
1946																																					460059.0
1947																																					391667.0
1948																																					473329.0
1949																																					333946.0
1950																																					232919.0
1951																																					514845.0
1952																																					741853.0
1953																																					532233.0
1954																																					208547.0
1955																																					351563.0
1956																																					441214.0
1957																																					270288.0
1958																																					457650.0
1959																																					

1-3895.00 PASSAIC RIVER AT LITTLE FALLS, N. J.
SUMMARY DURATION TABLE OF DAILY DISCHARGES

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	6	25567	100.0	9	12.00	22	25524	99.8	18	190.0	2000	20534	80.3	27	3100	1063	2024	7.0
1	1.00	1	25561	100.0	10	16.00	86	25502	99.7	19	260.0	1944	18534	72.5	28	4200	591	951	3.7
2	1.40	0	25563	100.0	11	22.00	79	25436	99.5	20	350.0	1964	16590	64.9	29	5700	256	370	1.4
3	1.40	2	25560	100.0	12	30.00	256	25357	99.2	21	480.0	1992	14626	57.2	30	7700	74	114	.4
4	2.50	0	25558	100.0	13	41.00	364	25101	98.2	22	650.0	1974	12634	49.4	31	10000	29	40	.1
5	3.40	3	25553	100.0	14	55.00	501	24737	96.8	23	890.0	2074	10660	41.7	32	14000	6	11	.0
6	4.70	17	25555	100.0	15	75.00	695	24236	94.8	24	1200.0	2242	8586	33.6	33	19000	4	5	.0
7	6.40	3	25538	99.9	16	100.00	1283	23541	92.1	25	1670.0	2376	4344	24.6	34	27700	1	1	.0
8	8.70	11	25535	99.9	17	140.00	1724	22258	87.1	26	2200.0	1944	3968	15.5					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

PASSAIC RIVER AT LITTLE FALLS, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1878	184.0 69	196.0 69	237.0 69	250.0 66	270.0 63	340.0 61	513.0 60	496.0 56	807.0 57	1890.0 65
1879	0.0 1	114.0 54	169.0 60	178.0 57	207.0 53	247.0 49	292.0 42	263.0 36	308.0 27	1100.0 33
1880	12.0 9	67.7 35	93.0 37	108.0 35	124.0 31	138.0 28	150.0 25	153.0 17	201.0 10	607.0 5
1901	62.0 46	164.0 64	210.0 65	213.0 62	272.0 64	338.0 60	447.0 57	820.0 63	808.0 58	2110.0 67
1902	65.0 47	106.0 50	181.0 63	217.0 63	287.0 66	421.0 63	532.0 62	594.0 59	971.0 62	2210.0 69
1903	30.0 26	170.0 65	225.0 68	286.0 67	335.0 67	730.0 67	720.0 64	993.0 66	1240.0 66	1790.0 63
1904	0.0 2	0.0 1	121.0 47	138.0 46	197.0 49	259.0 52	317.0 50	381.0 47	579.0 45	1140.0 39
1905	0.0 3	40.0 26	78.6 29	98.0 31	122.0 29	164.0 38	221.0 39	264.0 37	360.0 30	971.0 22
1906	76.0 51	133.0 59	145.0 58	167.0 54	201.0 50	235.0 48	313.0 49	373.0 45	581.0 46	1150.0 40
1907	60.0 45	88.0 44	118.0 44	132.0 45	137.0 38	167.0 37	228.0 40	402.0 49	790.0 56	2110.0 68
1908	34.0 30	87.0 43	138.0 55	146.0 49	162.0 45	191.0 45	206.0 38	247.0 34	286.0 25	1060.0 31
1909	55.0 44	83.0 41	99.6 39	115.0 39	127.0 34	135.0 25	142.0 23	182.0 24	221.0 16	1110.0 35
1910	34.0 31	65.3 34	85.1 32	85.9 28	94.9 25	120.0 23	133.0 20	147.0 15	201.0 11	800.0 13
1911	21.0 19	65.0 42	119.0 45	129.0 43	142.0 41	179.0 41	338.0 51	388.0 48	587.0 47	1260.0 45
1912	131.0 60	122.0 58	123.0 48	130.0 44	145.0 42	179.0 42	203.0 37	222.0 31	470.0 42	1310.0 53
1913	7.0 6	59.7 32	72.3 28	81.6 25	90.2 24	94.9 19	111.0 18	150.0 16	449.0 41	1150.0 41
1914	28.0 23	44.3 25	61.1 25	63.0 22	66.9 16	84.4 17	91.8 12	120.0 11	194.0 9	1240.0 46
1915	88.0 53	111.0 53	136.0 53	183.0 58	204.0 52	227.0 47	368.0 52	459.0 53	612.0 49	1130.0 37
1916	81.0 52	90.3 45	100.0 40	105.0 33	131.0 37	142.0 30	156.0 29	206.0 27	423.0 39	1040.0 30
1917	16.0 13	27.3 13	32.6 13	36.7 9	55.5 10	67.9 8	79.1 7	156.0 18	218.0 15	930.0 15
1918	9.0 7	36.3 21	39.1 16	45.6 13	50.4 7	77.9 13	76.7 6	90.3 5	144.0 5	762.0 9
1919	49.0 40	68.3 36	95.6 38	119.0 40	224.0 57	485.0 64	859.0 65	1090.0 67	1070.0 65	1660.0 59
1920	173.0 68	190.0 68	223.0 67	364.0 69	511.0 69	847.0 69	887.0 67	975.0 65	1000.0 63	1660.0 61
1921	21.0 20	28.7 15	34.3 14	45.9 14	61.2 13	75.4 12	86.1 10	167.0 22	236.0 18	856.0 18
1922	38.0 36	41.7 24	58.9 23	84.9 30	129.0 35	138.0 26	142.0 24	229.0 32	412.0 35	1100.0 34
1923	9.0 8	10.0 4	13.6 2	15.6 1	24.6 1	36.2 1	46.8 1	54.9 1	216.0 14	853.0 17
1924	30.0 27	32.0 17	43.6 18	49.0 17	86.9 22	144.0 32	296.0 45	288.0 39	324.0 29	1310.0 54
1925	36.0 34	46.7 27	62.9 26	85.1 26	160.0 44	185.0 44	304.0 46	319.0 43	415.0 36	1010.0 29
1926	28.0 24	36.0 20	46.3 21	52.8 19	71.1 18	138.0 27	199.0 36	316.0 41	447.0 40	1070.0 32
1927	48.0 39	107.0 51	132.0 51	168.0 55	275.0 65	678.0 65	908.0 68	944.0 64	1370.0 67	1790.0 64
1928	67.0 48	11.0 61	169.0 59	205.0 61	238.0 59	254.0 51	293.0 43	442.0 50	721.0 52	1260.0 47
1929	29.0 25	30.3 16	45.0 20	53.1 20	68.4 15	74.7 11	106.0 17	188.0 19	267.0 22	934.0 24
1930	27.0 21	28.3 14	30.0 11	30.4 5	40.9 4	81.3 15	92.0 13	102.0 8	211.0 13	517.0 4
1931	2.0 4	4.7 2	24.1 5	34.4 8	55.0 9	61.8 6	88.9 11	130.0 13	251.0 20	821.0 14
1932	2.0 5	6.0 3	12.9 1	17.4 2	30.4 3	39.5 2	59.3 1	94.1 6	246.0 19	1170.0 36
1933	47.0 38	61.3 33	92.1 35	108.0 36	130.0 36	226.0 46	380.0 54	671.0 62	932.0 61	1300.0 51
1934	41.0 37	59.0 31	80.0 31	110.0 37	126.0 33	142.0 31	311.0 48	508.0 57	782.0 55	1330.0 55
1935	37.0 35	53.0 29	63.3 27	78.4 24	103.0 27	162.0 34	152.0 26	258.0 35	292.0 28	1220.0 44
1936	69.0 50	77.0 43	92.4 36	105.0 34	122.0 30	153.0 33	169.0 31	244.0 33	318.0 28	1140.0 39
1937	90.0 54	118.0 56	139.0 56	156.0 50	220.0 55	333.0 59	405.0 56	453.0 52	636.0 50	1230.0 45
1938	149.0 66	184.0 67	195.0 64	220.0 64	267.0 62	694.0 66	1000.0 69	1130.0 68	1380.0 68	1600.0 62
1939	54.0 43	76.0 39	92.0 34	103.0 32	125.0 32	140.0 29	156.0 30	160.0 20	203.0 12	789.0 11
1940	132.0 64	152.0 62	172.0 61	189.0 59	224.0 58	383.0 62	490.0 59	485.0 54	723.0 53	1410.0 56
1941	35.0 33	51.0 28	79.6 30	85.9 27	88.8 23	99.7 20	139.0 22	166.0 21	255.0 21	780.0 12
1942	51.0 42	89.7 37	105.0 41	168.0 56	222.0 56	272.0 53	368.0 53	524.0 58	1030.0 64	1400.0 67
1943	31.0 28	35.7 19	47.9 22	86.9 29	100.0 26	122.0 24	136.0 21	183.0 25	480.0 43	887.0 20
1944	13.0 10	13.0 5	27.4 9	37.9 10	60.5 12	72.1 10	131.0 19	129.0 12	189.0 8	987.0 28
1945	157.0 67	179.0 66	220.0 66	246.0 68	431.0 68	798.0 68	886.0 66	1200.0 69	1440.0 69	1660.0 58
1946	96.0 59	119.0 57	124.0 49	140.0 47	243.0 60	298.0 56	383.0 55	444.0 51	579.0 44	957.0 25
1947	95.0 58	105.0 49	114.0 43	143.0 48	153.0 43	177.0 40	246.0 41	380.0 46	697.0 51	1310.0 52
1948	34.0 32	36.7 22	43.4 17	53.1 21	76.5 21	101.0 21	152.0 27	207.0 28	361.0 31	1270.0 49
1949	14.0 11	24.0 12	31.0 12	47.5 16	71.7 19	82.4 16	97.4 15	117.0 9	117.0 3	610.0 6
1950	68.0 49	70.0 38	89.0 33	119.0 41	164.0 46	170.0 39	176.0 32	188.0 26	396.0 34	1150.0 47
1951	110.0 63	134.0 60	145.0 57	156.0 51	174.0 47	297.0 55	455.0 58	485.0 55	596.0 48	1470.0 61
1952	149.0 65	163.0 63	180.0 62	191.0 60	211.0 54	281.0 54	612.0 64	639.0 61	906.0 61	1900.0 65
1953	17.0 15	17.0 7	17.0 3	23.4 4	45.2 6	56.3 4	71.3 4	102.0 7	166.0 7	780.0 10
1954	20.0 17	20.0 9	24.3 6	33.2 6	55.8 11	79.3 14	103.0 16	274.0 38	363.0 32	834.0 16
1955	20.0 18	21.7 11	25.7 7	40.0 11	74.3 20	180.0 43	197.0 35	344.0 44	774.0 54	1150.0 43
1956	108.0 62	117.1 55	135.0 52	159.0 53	176.0 48	316.0 57	294.0 44	330.0 42	421.0 38	916.0 21
1957	19.0 16	21.0 10	28.1 10	34.4 7	41.1 5	57.5 5	80.7 9	88.1 4	114.0 7	980.0 27
1958	90.0 55	99.0 46	105.0 42	112.0 38	140.0 40	165.0 36	186.0 34	218.0 30	387.0 33	962.0 26
1959	91.0 56	103.0 47	127.0 50	157.0 52	201.0 51	252.0 50	310.0 47	309.0 40	420.0 37	933.0 23
1960	95.0 57	105.0 48	137.0 54	231.0 65	246.0 61	321.0 58	517.0 61	602.0 60	844.0 59	1270.0 50
1961	102.0 61	108.0 52	120.0 46	124.0 42	138.0 39	163.0 35	182.0 33	217.0 29	276.0 23	861.0 19
1962	50.0 41	53.3 33	60.3 24	76.9 23	107.0 28	118.0 22	153.0 28	170.0 23	235.0 17	655.0 7
1963	32.0 29	37.7 23	44.1 19	49.3 18	67.8 17	99.5 18	93.2 14	113.0 10	160.0 6	506.0 3
1964	16.0 14	16.7 6	19.7 4	20.5 3	25.3 2	44.9 3	53.1 2	63.0 2	119.0 2	423.0 2
1965	15.0 12	18.7 8	26.6 8	44.5 12	52.6 8	65.7 7	72.4 5	79.8 3	116.0 4	329.0 1
1966	28.0 22	32.7 18	37.1 15	46.2 15	65.2 14	70.7 9	79.6 8	137.0 14	280.0 24	708.0 8

1-3895.00 PASSAIC RIVER AT LITTLE FALLS, N. J.

LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1 [†]	3 [†]	7	14	30	60	90	120	183	ANNUAL
MEAN	56.015	76.698	95.849	115.674	146.973	213.936	278.281	348.437	501.188	1141.841
VARIANCE	1920.831	2602.531	3569.768	5448.426	8916.004	32634.426	53296.852	76194.500	112498.312	167125.312
STD DEV	43.827	51.015	59.748	73.813	94.425	180.650	230.861	276.033	335.407	408.810
SKEWNESS	1.134	.633	.571	.954	1.348	1.990	1.589	1.535	1.090	.638
SE OF SKEW	.295	.291	.289	.289	.289	.289	.289	.289	.289	.289
SER CORR	.078	.218	.332	.219	.227	.181	.167	.148	.096	.263
C OF VAR	.782	.665	.623	.638	.642	.844	.830	.792	.669	.358

LOGS

MEAN OF	1.595	1.763	1.879	1.964	2.078	2.210	2.317	2.424	2.606	3.029
VAR OF	.170	.134	.106	.100	.085	.102	.111	.105	.085	.027
STD DEV OF	.412	.366	.326	.316	.292	.319	.334	.323	.292	.163
SKEW OF	-.882	-.800	-.537	-.489	-.301	.244	.214	.135	.013	-.515
SE OF SKEW OF	.295	.291	.289	.289	.289	.289	.289	.289	.289	.289
SER CORR OF	.212	.372	.392	.329	.286	.256	.245	.207	.147	.345
C OF VAR OF	.258	.207	.173	.161	.140	.144	.144	.133	.112	.054

† Zero flow values excluded in computations of statistics.

1-3895.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

PASSAIC RIVER AT LITTLE FALLS, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1898	9500.0 12	8700.0 13	7010.0 17	4750.0 29	3730.0 30	2880.0 25	2680.0 23	2680.0 11	2470.0 7	1530.0 9
1899	7830.0 26	7270.0 26	6280.0 25	5610.0 12	5330.0 5	4360.0 4	3520.0 7	3210.0 4	2770.0 4	1560.0 8
1900	9430.0 13	8590.0 16	6200.0 26	5090.0 20	4700.0 9	3330.0 17	2690.0 22	2280.0 28	1810.0 33	1050.0 42
1901	9270.0 14	8800.0 12	7510.0 13	5070.0 21	4190.0 16	3620.0 8	3240.0 8	2600.0 14	2200.0 16	1250.0 28
1902	21400.0 2	19800.0 2	15300.0 2	10700.0 2	7290.0 2	4890.0 2	3940.0 2	3660.0 2	2720.0 5	1670.0 7
1903	11000.0 9	9790.0 11	8440.0 8	6530.0 6	4670.0 10	3750.0 6	3890.0 3	3510.0 3	3450.0 1	2390.0 1
1904	25000.0 1	25200.0 1	18000.0 1	10600.0 3	5930.0 4	3370.0 15	2800.0 19	2380.0 24	2350.0 11	1480.0 12
1905	8700.0 19	8600.0 15	8090.0 11	6420.0 7	4450.0 11	2720.0 34	2470.0 28	2210.0 31	1730.0 35	1070.0 39
1906	6110.0 41	5650.0 42	4960.0 44	3910.0 45	3320.0 39	2660.0 37	2140.0 44	2020.0 38	1820.0 31	1220.0 29
1907	8100.0 24	7890.0 21	7110.0 15	5300.0 15	3560.0 33	2520.0 41	2190.0 42	1750.0 50	1550.0 48	979.0 48
1908	9190.0 16	8620.0 14	7350.0 14	6880.0 5	5140.0 6	4360.0 5	4140.0 1	3850.0 1	3360.0 2	2710.0 2
1909	8470.0 36	6030.0 37	5250.0 40	4300.0 39	3750.0 27	2840.0 27	2400.0 14	2000.0 30	1810.0 32	1030.0 43
1910	8940.0 18	7970.0 20	6670.0 18	5250.0 17	3820.0 24	2970.0 26	2570.0 25	2390.0 22	1920.0 25	1080.0 37
1911	3370.0 67	3250.0 65	3070.0 62	2890.0 59	2470.0 57	1860.0 59	1570.0 58	1380.0 59	1150.0 60	711.0 61
1912	10400.0 11	9810.0 9	8330.0 9	6300.0 9	5010.0 7	3500.0 11	3020.0 12	2440.0 18	1950.0 22	1310.0 20
1913	7450.0 30	7050.0 28	5600.0 35	4890.0 24	3480.0 22	3290.0 19	2590.0 24	2620.0 13	2200.0 17	1280.0 26
1914	7980.0 25	7520.0 25	6590.0 20	5010.0 22	3900.0 20	3140.0 23	2430.0 30	2290.0 27	1880.0 24	1200.0 31
1915	7800.0 27	7160.0 27	6570.0 22	5460.0 14	4740.0 8	3720.0 7	2830.0 17	2400.0 21	1850.0 30	1190.0 33
1916	6130.0 40	5940.0 38	5250.0 41	3990.0 43	3430.0 36	2800.0 30	2410.0 31	2450.0 17	2100.0 21	1320.0 19
1917	4530.0 58	4190.0 58	3500.0 58	3100.0 56	2990.0 46	2170.0 52	1770.0 54	1590.0 56	1370.0 54	792.0 56
1918	6490.0 37	6250.0 35	5400.0 36	4810.0 28	3750.0 38	2500.0 42	2230.0 40	1850.0 47	1360.0 55	784.0 57
1919	8630.0 22	7850.0 23	6470.0 23	4280.0 40	2880.0 40	2400.0 47	2180.0 43	1860.0 44	1720.0 36	1170.0 34
1920	11600.0 7	11200.0 5	10300.0 4	8770.0 4	6770.0 3	4800.0 3	3660.0 4	2940.0 8	2360.0 10	1680.0 6
1921	6240.0 38	5900.0 39	5150.0 42	4580.0 32	3480.0 34	2730.0 33	2460.0 29	2270.0 29	2190.0 19	1360.0 19
1922	6560.0 35	6230.0 36	5330.0 39	4180.0 42	3430.0 35	2640.0 38	2310.0 37	2110.0 37	1790.0 34	1060.0 40
1923	7630.0 28	6930.0 30	6070.0 28	4860.0 26	3420.0 37	2400.0 48	1930.0 51	1710.0 52	1390.0 53	746.0 53
1924	10800.0 10	9810.0 10	7580.0 10	5260.0 16	3930.0 18	3410.0 14	2830.0 18	2360.0 25	2200.0 18	1300.0 21
1925	6040.0 42	5850.0 40	5690.0 34	4880.0 25	4210.0 15	3130.0 24	2360.0 34	1950.0 39	1430.0 52	895.0 54
1926	5520.0 46	5160.0 47	4920.0 45	4330.0 37	3230.0 41	2620.0 39	2080.0 47	1770.0 48	1680.0 40	1060.0 41
1927	8710.0 20	7880.0 22	6130.0 27	4480.0 36	3320.0 40	2490.0 43	1770.0 55	1650.0 55	1570.0 46	1450.0 14
1928	5970.0 43	5650.0 43	4730.0 47	3870.0 47	3120.0 38	2260.0 30	2720.0 20	2380.0 23	2250.0 14	1390.0 4
1929	5120.0 52	4830.0 51	4050.0 54	3650.0 51	3350.0 43	2700.0 25	2520.0 27	2130.0 35	1630.0 44	915.0 53
1930	3610.0 64	3330.0 64	3070.0 63	2340.0 64	1920.0 65	1590.0 62	1410.0 61	1370.0 60	1130.0 61	773.0 60
1931	3950.0 62	3640.0 61	2810.0 65	2520.0 63	1940.0 64	1930.0 57	1850.0 52	1670.0 53	1340.0 56	824.0 55
1932	4550.0 57	4190.0 57	3880.0 57	2980.0 58	2350.0 61	1580.0 63	1370.0 62	1270.0 64	972.0 65	535.0 68
1933	9200.0 23	7750.0 24	6330.0 24	4820.0 27	3860.0 23	3150.0 22	2700.0 21	2290.0 26	2250.0 15	1700.0 5
1934	5520.0 47	5210.0 46	4560.0 49	3730.0 50	3120.0 44	2550.0 40	2230.0 41	1860.0 45	1570.0 45	1000.0 44
1935	3880.0 63	3550.0 62	3170.0 61	2310.0 65	2220.0 62	1860.0 58	1630.0 57	1670.0 54	1530.0 49	994.0 47
1936	18200.0 3	17000.0 3	13100.0 3	11000.0 3	7420.0 1	4980.0 1	3640.0 5	3180.0 5	2460.0 8	1400.0 16
1937	5370.0 48	4500.0 56	4020.0 55	3410.0 54	2780.0 54	2440.0 46	2250.0 39	2130.0 36	1950.0 23	1200.0 32
1938	9140.0 17	8390.0 18	6650.0 19	4300.0 38	2840.0 51	2140.0 54	2070.0 48	1890.0 42	1670.0 42	1510.0 10
1939	5670.0 44	5280.0 45	4860.0 46	3910.0 44	3590.0 31	3330.0 16	3170.0 10	2740.0 10	2380.0 9	1370.0 17
1940	5310.0 49	5100.0 49	4990.0 43	4500.0 34	3910.0 19	3250.0 21	2930.0 15	2510.0 15	1890.0 27	1120.0 36
1941	4140.0 60	3800.0 59	3360.0 60	2740.0 62	2420.0 58	1950.0 56	1740.0 56	1740.0 51	1550.0 47	939.0 51
1942	6900.0 34	6510.0 34	5720.0 32	4570.0 33	2930.0 47	2150.0 53	1850.0 53	1580.0 57	1340.0 57	1030.0 45
1943	7430.0 31	6930.0 31	5740.0 31	3880.0 46	2890.0 48	2380.0 49	2110.0 35	2270.0 30	1950.0 24	1400.0 22
1944	4910.0 54	4780.0 52	4220.0 52	3510.0 52	2840.0 52	2780.0 31	2290.0 38	1900.0 41	1530.0 50	948.0 50
1945	12500.0 4	11300.0 4	9170.0 5	6410.0 8	4270.0 14	2460.0 45	2380.0 32	2150.0 32	2150.0 20	1510.0 11
1946	5040.0 53	4780.0 53	4180.0 53	3790.0 48	3050.0 45	2750.0 32	2090.0 45	1860.0 46	1630.0 43	1290.0 24
1947	5300.0 50	4880.0 50	4010.0 56	3060.0 57	2780.0 53	2470.0 44	2370.0 33	2140.0 33	1710.0 37	1070.0 35
1948	4880.0 55	4630.0 55	4530.0 50	3730.0 49	3200.0 42	2810.0 29	2530.0 26	2410.0 19	1880.0 28	1290.0 28
1949	8640.0 21	8090.0 19	7030.0 16	5600.0 13	3730.0 29	2820.0 28	2310.0 36	2140.0 34	1680.0 41	915.0 52
1950	4100.0 61	3690.0 60	3450.0 59	2770.0 61	2040.0 63	1570.0 64	1330.0 64	1260.0 65	1040.0 63	638.0 63
1951	11800.0 6	11000.0 6	9130.0 6	6060.0 10	4300.0 13	3430.0 13	2960.0 14	2640.0 12	2330.0 12	1410.0 15
1952	11900.0 5	10700.0 7	8500.0 7	5760.0 11	4080.0 17	3490.0 12	3550.0 6	3040.0 6	3010.0 3	2030.0 3
1953	7240.0 32	6590.0 33	5990.0 29	5230.0 18	4340.0 12	3610.0 9	3200.0 9	2970.0 7	2660.0 6	1460.0 13
1954	2910.0 70	2670.0 70	2300.0 69	1870.0 68	1430.0 69	1070.0 69	1140.0 66	1010.0 66	897.0 67	571.0 66
1955	9200.0 15	8520.0 17	6580.0 21	4910.0 23	2480.0 49	1630.0 61	1340.0 63	1360.0 62	1250.0 59	963.0 49
1956	11200.0 8	10600.0 8	8160.0 10	5180.0 19	3810.0 25	2670.0 36	2040.0 49	1740.0 49	1690.0 38	1210.0 30
1957	5240.0 51	5130.0 48	4710.0 48	3450.0 53	2380.0 59	1830.0 60	1540.0 59	1380.0 58	1280.0 58	740.0 59
1958	6200.0 39	5810.0 41	5370.0 37	4650.0 30	3880.0 21	3310.0 18	3020.0 13	2750.0 9	2310.0 13	1250.0 27
1959	3470.0 66	2770.0 69	2280.0 70	1760.0 69	1510.0 68	1300.0 67	1100.0 68	966.0 67	966.0 66	672.0 67
1960	6980.0 33	6710.0 32	5710.0 33	4280.0 41	2770.0 55	2180.0 51	1960.0 50	1940.0 40	1690.0 39	1300.0 23
1961	7500.0 29	7020.0 29	5940.0 30	4580.0 31	3810.0 26	3600.0 10	3030.0 11	2470.0 16	1860.0 29	1130.0 35
1962	4880.0 56	4720.0 54	4220.0 51	3170.0 55	2570.0 56	2100.0 55	1530.0 60	1360.0 63	1010.0 64	601.0 65
1963	3070.0 69	3050.0 68	2940.0 64	2830.0 60	2360.0 60	1430.0 66	1110.0 67	966.0 68	879.0 68	540.0 67
1964	3350.0 58	3110.0 57	2700.0 67	2270.0 65	1810.0 65	1450.0 65	1320.0 65	1370.0 61	1080.0 62	521.0 64
1965	4390.0 59	3550.0 63	2770.0 66	1700.0 70	1160.0 70	781.0 70	646.0 70	546.0 70	453.0 70	269.0 70
1966	3530.0 65	3130.0 66	2530.0 68	2010.0 67	1800.0 67	1150.0 68	934.0 69	820.0 69	612.0 69	394.0 69
1967	5600.0 45	5520.0 44	5340.0 38	4490.0 35	3570.0 32	2370.0 50	2090.0 46	1880.0 43	1480.0 51	1070.0 46

1-3895.00 PASSAIC RIVER AT LITTLE FALLS, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	7523.426	6992.285	5897.570	4571.855	3510.286	2715.300	2340.000	2090.686	1787.414	1145.128
VARIANCE	16833040.000	14029939.000	7598161.000	3514178.000	1515990.000	789456.687	572344.562	435830.000	348627.187	161889.062
STD DEV	4102.809	3745.656	2756.476	1874.614	1231.255	888.514	756.534	660.174	590.447	402.354
SKEWNESS	2.605	2.489	1.997	1.508	.966	.325	.165	.242	.407	.540
SE OF SKEW	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287
SER CORR	.162	.154	.202	.164	.192	.241	.319	.311	.327	.283
C OF VAR	.545	.536	.467	.410	.351	.327	.323	.316	.330	.351

LOGS

MEAN OF	3.830	3.798	3.732	3.627	3.519	3.408	3.344	3.296	3.226	3.030
VAR OF	.038	.038	.033	.029	.024	.025	.025	.024	.025	.028
STD DEV OF	.194	.195	.182	.170	.155	.157	.157	.154	.159	.168
SKEW OF	.538	.444	.203	-.071	-.396	-.807	-.863	-.988	-.923	-.876
SE OF SKEW OF	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287
SER CORR OF	.200	.191	.226	.213	.268	.325	.364	.345	.380	.365
C OF VAR OF	.051	.051	.049	.047	.044	.046	.047	.047	.049	.056

STATISTICS OF MONTHLY MEANS, 1898-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1898-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	685.8	1001.	3.355	1.460	4.736	.289	2.565	.4725	.3238	.1842	7.417	.566
NOV	1007.	932.4	1.696	.9262	6.953	.425	2.819	.4221	-.0803	.1498	8.149	.638
DEC	1291.	923.5	1.107	.7155	8.914	.582	2.992	.3397	-.2055	.1135	8.650	.619
JAN	1467.	860.4	.6316	.5866	10.13	.490	3.081	.2935	-.5690	.0952	8.908	.511
FEB	1513.	868.0	.9148	.5738	10.45	.359	3.106	.2683	-.5016	.0864	8.979	.266
MAR	2644.	1236.	1.591	.4673	18.26	-.053	3.382	.1849	.2696	.0547	9.779	-.037
APR	2150.	898.1	.3947	.4177	14.85	.269	3.292	.1934	-.2982	.0587	9.519	.309
MAY	1331.	740.8	.9219	.5564	9.195	.178	3.055	.2566	-.2623	.0840	8.832	.208
JUN	7379.	562.2	1.514	.7618	5.096	.426	2.754	.3198	.1037	.1161	7.962	.464
JUL	526.7	589.8	2.662	1.120	3.638	.357	2.540	.3862	.3682	.1521	7.343	.600
AUG	594.7	682.0	1.742	1.147	4.107	.380	2.509	.4966	.1318	.1979	7.255	.585
SEP	531.5	600.7	2.230	1.130	3.671	.542	2.494	.4567	.1878	.1831	7.209	.672

1-3905.00 SADDLE RIVER AT RIDGEWOOD, N. J.

Location.--Lat 40°59'05", long 74°05'30", 15 ft upstream from bridge on State Highway 17.

Drainage area.--21.6 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS
1955																																		13675.7
1956																																		16063.8
1957																																		10544.9
1958																																		16224.8
1959																																		10326.2
1960																																		15225.0
1961																																		16948.2
1962																																		10393.2
1963																																		10278.1
1964																																		10176.8
1965																																		6071.3
1966																																		8172.9
1967																																		13045.5

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	4748	100.0	9	1.80	14	4736	99.7	18	16.00	471	3256	68.6	27	140	43	96	2.0
1	0.20	2	4748	100.0	10	2.30	17	4722	99.5	19	20.00	634	2785	58.7	28	180	20	53	1.1
2	0.30	0	4748	100.0	11	2.90	41	4705	99.1	20	25.00	545	2151	45.3	29	220	17	33	.6
3	0.40	0	4748	100.0	12	3.70	65	4664	98.2	21	32.00	465	1606	33.9	30	280	10	16	.3
4	0.50	0	4748	100.0	13	4.70	96	4599	96.9	22	41.00	375	1141	24.0	31	360	1	6	.1
5	0.60	1	4746	101.0	14	5.80	202	4503	94.8	23	52.00	302	766	16.1	32	440	4	8	.1
6	0.80	1	4745	99.9	15	7.50	258	4301	90.0	24	67.00	183	464	9.8	33	590	1	1	.0
7	1.10	3	4744	99.9	16	9.80	263	4043	85.2	25	85.00	115	281	5.9	34				
8	1.40	5	4741	99.9	17	12.00	524	3780	79.6	26	110.00	70	166	3.5					

1-3905.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

SADDLE RIVER AT RIDGEWOOD, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1955	4.3 6	4.3 6	4.7 6	5.2 6	6.5 6	11.2 7	12.4 6	17.4 11	30.7 11	43.5 11
1956	8.6 12	9.0 12	9.5 11	10.7 10	11.7 10	15.8 11	15.1 11	17.3 10	21.2 10	33.1 6
1957	3.3 5	3.6 5	4.0 5	4.6 5	5.9 5	7.4 5	8.2 4	8.9 3	11.1 2	16.8 9
1958	6.3 9	6.9 9	7.6 9	8.9 9	10.3 7	10.9 6	12.8 7	13.9 6	21.0 9	37.0 10
1959	5.6 8	6.1 8	7.0 8	8.0 8	10.5 8	12.6 10	14.0 10	14.3 7	19.0 7	33.8 7
1960	8.2 11	8.6 11	9.9 12	12.9 12	16.1 12	17.3 12	23.1 12	26.2 12	31.7 12	45.3 12
1961	7.0 10	7.3 10	8.2 10	10.8 11	11.8 11	12.4 9	13.9 8	15.0 8	18.1 5	34.9 8
1962	5.2 7	5.5 7	6.0 7	7.5 7	10.8 9	12.0 8	13.9 9	15.8 9	20.3 8	31.7 5
1963	2.0 2	2.5 4	3.4 4	4.3 4	5.0 4	7.3 4	8.6 5	10.1 4	13.9 3	26.1 3
1964	2.0 3	2.2 3	3.1 3	3.7 3	4.3 3	5.5 2	6.1 2	7.0 1	9.8 1	20.7 2
1965	2.0 4	2.0 2	2.4 2	2.7 2	4.0 2	5.5 3	8.1 3	11.6 5	13.9 4	20.0 1
1966	0.2 1	0.9 1	1.7 1	1.9 1	3.0 1	4.4 1	5.6 1	8.9 2	18.5 6	28.9 4

MEAN	4.558	4.908	5.625	6.767	8.325	10.192	11.817	13.867	19.100	32.650
VARIANCE	7.306	7.415	7.862	12.621	16.564	17.379	23.765	27.037	46.247	61.924
STD DEV	2.703	2.723	2.804	3.553	4.070	4.169	4.875	5.200	6.801	7.869
SKEWNESS	.003	.092	.186	.313	.371	.182	.888	1.036	.687	-.134
SE OF SKEW	.637	.637	.637	.637	.637	.637	.637	.637	.637	.637
SER CORR	.437	.430	.424	.451	.501	.494	.407	.229	.166	.589
C OF VAR	.593	.555	.498	.525	.489	.409	.413	.375	.356	.241

LOGS

MEAN OF	.526	.609	.692	.766	.867	.971	1.039	1.115	1.256	1.501
VAR OF	.204	.094	.061	.068	.053	.038	.033	.025	.024	.013
STD DEV OF	.452	.307	.248	.260	.231	.194	.180	.159	.156	.112
SKEW OF	-1.983	-.852	-.485	-.472	-.264	-.378	-.095	.060	-.082	-.634
SE OF SKEW OF	.637	.637	.637	.637	.637	.637	.637	.637	.637	.637
SER CORR OF	.616	.662	.619	.623	.622	.638	.509	.282	.202	.651
C OF VAR OF	.858	.504	.358	.339	.266	.199	.174	.143	.124	.074

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	.080	.515	1.069	1.183	1.929	2.934	4.040	5.651	7.667	15.513
20.00	.422	1.101	1.791	2.025	2.956	4.296	5.460	7.182	9.919	19.933
10.00	.865	1.579	2.313	2.646	3.677	5.204	6.394	8.173	11.356	22.522
5.00	1.777	2.351	3.099	3.591	4.748	6.496	7.724	9.569	13.355	25.839
2.00	4.610	4.482	5.147	6.114	7.544	9.622	11.007	12.990	18.113	32.587
1.25	7.547	7.424	8.009	9.738	11.598	13.697	15.540	17.727	24.398	39.550
1.11	8.550	9.181	9.845	12.110	14.335	16.224	18.542	20.899	28.430	43.140
1.04	9.163	11.115	12.051	15.002	17.800	19.217	22.323	24.950	33.397	46.848
1.02	9.371	12.352	13.602	17.060	20.367	21.311	25.128	27.999	37.017	49.149
1.01	9.477	13.430	15.074	19.031	22.912	23.297	27.922	31.077	40.576	51.140

1-3905.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SADDLE RIVER AT RIDGEWOOD, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1935	696.0 1	298.0 3	210.0 3	143.0 2	87.1 5	58.3 8	50.6 8	49.2 9	46.3 5	37.5 5
1956	588.0 2	384.0 1	229.0 1	142.0 3	116.0 2	90.2 3	69.1 3	58.9 3	57.3 3	43.9 3
1957	357.0 6	252.0 5	162.0 4	122.0 4	84.1 6	67.1 6	56.3 7	49.5 8	45.8 6	28.9 7
1958	498.0 3	252.0 4	172.0 5	117.0 5	107.0 3	99.5 2	93.7 2	87.6 1	73.2 1	44.5 2
1959	260.0 10	141.0 11	86.0 13	67.3 12	60.0 12	50.0 10	43.6 11	39.6 11	38.7 10	28.3 9
1960	318.0 9	161.0 9	109.0 9	85.7 8	69.6 8	64.0 7	59.4 4	58.6 4	52.8 4	41.6 4
1961	382.0 5	300.0 2	216.0 2	159.0 1	131.0 1	114.0 1	100.0 1	84.0 2	66.9 2	46.2 1
1962	497.0 4	263.0 4	153.0 6	102.0 6	88.8 4	72.1 4	58.4 6	51.4 6	41.5 9	28.5 8
1963	199.0 13	141.0 12	105.0 10	85.7 9	65.9 9	50.0 11	44.8 10	40.5 10	37.8 11	28.2 10
1964	225.0 12	125.0 13	86.4 12	72.3 10	61.3 11	52.3 9	49.2 9	50.3 7	42.4 8	27.8 11
1965	351.0 7	177.0 8	104.0 11	61.7 13	45.9 13	33.4 13	29.7 13	26.4 13	22.6 13	16.6 13
1966	321.0 8	212.0 7	112.0 8	70.1 11	62.1 10	46.1 12	40.4 12	37.1 12	29.4 12	22.4 12
1967	228.0 11	156.0 10	121.0 7	95.7 7	83.5 7	70.9 5	59.3 5	53.1 5	45.2 7	35.9 6

MEAN	378.923	220.154	145.069	101.808	81.715	66.761	58.054	52.785	46.146	33.100
VARIANCE	22691.867	6189.461	2631.877	1037.787	607.043	524.043	399.774	296.371	193.994	84.862
STD DEV	150.638	78.673	51.302	32.215	24.638	22.892	19.994	17.215	13.928	9.212
SKEWNESS	.851	.630	.480	.477	.650	.776	1.057	.899	.420	-.070
SE OF SKEW	.616	.616	.616	.616	.616	.616	.616	.616	.616	.616
SER CORR	.387	.427	.511	.439	.193	.109	.045	-.009	.149	.191
C OF VAR	.398	.357	.354	.316	.302	.343	.344	.326	.302	.278

LOGS

MEAN OF	2.548	2.318	2.137	1.988	1.894	1.802	1.742	1.702	1.645	1.503
VAR OF	.028	.024	.023	.019	.017	.022	.020	.019	.019	.017
STD DEV OF	.168	.154	.152	.137	.129	.147	.143	.139	.137	.130
SKEW OF	.227	.142	.197	.124	.078	.039	.220	-.029	-.471	-.650
SE OF SKEW OF	.616	.616	.616	.616	.616	.616	.616	.616	.616	.616
SER CORR OF	.308	.419	.497	.483	.288	.217	.144	.065	.256	.264
C OF VAR OF	.066	.066	.071	.069	.068	.082	.082	.082	.083	.087

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	153.735	94.624	63.749	48.092	39.878	29.115	27.066	23.701	19.055	13.767
1.05	192.320	117.762	78.512	58.576	48.353	36.445	32.797	29.620	25.292	18.488
1.11	217.841	132.735	88.099	65.226	53.661	41.113	36.492	33.337	29.113	21.337
1.25	254.580	153.881	101.689	74.465	60.959	47.611	41.698	38.447	34.199	25.064
2.00	348.342	206.013	135.447	96.612	78.122	63.189	54.509	50.420	45.263	32.869
5.00	486.573	279.099	183.372	126.505	100.670	84.129	72.484	65.977	57.845	41.170
10.00	584.339	328.683	216.260	146.194	115.194	97.830	84.715	75.869	64.889	45.527
25.00	714.928	392.740	259.164	171.062	133.222	115.019	100.576	87.998	72.643	50.069
50.00	817.344	441.511	292.125	189.631	146.478	127.764	112.702	96.812	77.738	52.906
100.00	924.172	491.206	325.956	208.269	159.624	140.481	125.102	105.466	82.351	55.369

STATISTICS OF MONTHLY MEANS, 1955-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1955-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	27.61	24.74	2.719	.8961	6.939	.411	1.331	.3075	.4316	.2310	7.779	.680
NOV	34.65	16.58	.5675	.4785	8.710	.777	1.487	.2354	-.6700	.1583	8.688	.748
DEC	32.39	13.87	.6860	.4283	8.142	.317	1.474	.1853	.0806	.1257	8.613	.475
JAN	34.99	15.52	1.140	.4435	8.794	.546	1.506	.1886	-.0467	.1252	8.801	.630
FEB	44.42	17.22	1.437	.3877	11.16	.388	1.622	.1508	.7443	.0930	9.475	.377
MAR	58.93	20.69	.4687	.3511	14.81	.348	1.744	.1632	-.6675	.0936	10.19	.132
APR	57.72	24.95	.2829	.4322	14.51	.635	1.719	.2061	-.4345	.1199	10.05	.616
MAY	34.40	16.04	1.116	.4662	8.647	.668	1.496	.1945	.1818	.1300	8.740	.605
JUN	17.81	5.477	-.5042	.3076	4.476	.597	1.227	.1579	-1.142	.1287	7.170	.664
JUL	15.52	9.210	.5273	.5933	3.902	.610	1.107	.2991	-.5822	.2700	6.471	.657
AUG	21.38	19.12	2.305	.8946	5.373	.112	1.212	.3180	.5821	.2623	7.083	.298
SEP	18.03	11.20	1.464	.6214	4.532	.359	1.189	.2483	.2558	.2089	6.945	.361

1-3910.00 HOKOKUS BROOK AT HOKOKUS, N. J.

Location.--Lat 40°59'52", long 74°06'48", 500 ft upstream from Maple Avenue Bridge.

Drainage area.--16.4 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1955			2	4	12	5	7	2	10	22	22	20	40	16	28	34	39	37	10	15	12	7	4	4	3	2	3	1	1			1	1	1	11687.0
1956								7	14	16	14	21	31	29	28	22	31	49	27	32	13	6	8	8	1	3	1	2		1		1	1		12304.3
1957		1	7	18	34	18	23	19	17	8	12	30	32	22	31	19	27	14	11	5	4	3	4	2	1	1		1	1					7895.1	
1958				4	1	17	17	20	20	18	21	30	17	18	32	12	22	27	31	14	17	6	8	2	7	7		3	2	1			1		13324.5
1959					5	17	12	27	28	16	11	75	36	25	28	23	26	7	10	7		4	2	1	2	1		1		1				8025.5	
1960						2	10	7	8	15	38	25	19	38	55	56	27	18	10	10	3	1	5	6	2		1	1	1					15011.6	
1961								4	10	15	14	12	34	54	49	33	13	20	15	21	20	21	6	6	3	8	2	1	3		1				12619.7
1962					3	7	23	16	32	28	29	58	34	21	26	15	21	9	15	7	5	4	4	1	2	1	1	2				1			8976.4
1963				8	14	13	19	16	12	8	13	36	39	40	47	21	21	10	15	6	13	4	5	1	1	1	1		1	1					9200.8
1964		1	9	14	15	33	15	19	16	15	17	39	20	16	35	26	24	10	16	7	7	4	2	1	1	1	1	2			1				9326.4
1965		2	11	28	31	25	35	30	31	11	18	20	38	25	22	11	8	3	5	3	1	2	1	1				1	1				1		5883.8
1966	20	12	7	14	9	7	7	17	35	16	23	36	28	33	28	24	20	5	7	5	4	1	3		1				2		1				7748.8
1967						4	9	10	13	16	38	32	40	42	48	22	23	25	14	8	5	5	3	3	3	1						1			11506.8

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	4748	100.0	9	9.00	261	3926	82.7	18	38.0	182	874	18.4	27	160	11	47	1.0					
1	2.50	20	4748	100.0	10	11.00	191	3665	77.2	19	44.0	221	692	14.6	28	190	14	36	1.7					
2	2.90	18	4728	99.6	11	12.00	228	3474	73.2	20	52.0	121	471	9.9	29	220	7	22	1.4					
3	3.40	38	4710	99.2	12	14.00	505	3246	68.4	21	61.0	103	350	7.4	30	250	5	15	1.3					
4	4.00	98	4672	98.4	13	17.00	395	2741	57.7	22	71.0	61	247	5.2	31	300	4	10	1.2					
5	4.70	117	4574	96.3	14	20.00	344	2446	49.4	23	83.0	55	186	3.9	32	350	2	6	1.1					
6	5.60	144	4457	93.9	15	23.00	418	1982	41.7	24	98.0	20	131	2.8	33	410	2	4	1.0					
7	6.50	170	4313	90.8	16	27.00	337	1564	32.9	25	110.0	36	111	2.3	34	480	2	2	1.0					
8	7.60	217	4143	87.3	17	32.00	353	1227	25.8	26	130.0	28	75	1.6										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

HOKOKUS BROOK AT HOKOKUS, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1955	3.2 3	3.3 2	3.8 4	4.0 2	4.8 4	9.3 6	10.3 6	14.2 8	28.1 12	36.0 12
1956	6.4 10	6.9 10	7.6 10	8.0 9	8.5 7	13.3 11	12.2 7	14.3 9	17.5 8	25.2 4
1957	3.2 4	3.5 3	3.7 2	4.0 3	4.5 2	6.1 3	6.6 3	6.9 2	8.8 2	29.1 8
1958	5.4 9	6.1 9	6.6 9	8.6 10	11.1 10	11.4 7	12.5 8	13.6 7	17.4 7	29.2 9
1959	4.4 7	5.2 7	5.7 7	6.2 7	9.6 9	12.2 9	12.5 9	13.4 6	16.3 5	27.8 6
1960	6.9 11	7.9 12	8.8 12	11.5 12	15.0 12	15.7 12	21.3 12	23.5 12	26.6 11	35.0 11
1961	7.5 12	7.5 11	8.2 11	10.0 11	11.3 11	12.6 10	14.3 11	15.1 11	17.6 9	29.7 10
1962	4.9 8	5.6 8	6.5 8	7.3 8	9.0 8	11.4 8	13.4 10	14.7 10	18.7 10	28.6 7
1963	4.0 6	5.1 6	5.1 6	5.8 6	6.5 6	7.7 5	8.5 4	9.8 4	12.1 3	21.6 3
1964	3.2 5	3.5 4	3.7 3	4.1 4	4.8 3	5.7 2	5.6 1	6.0 1	8.4 1	17.4 1
1965	3.1 2	3.6 5	4.4 5	4.4 5	5.0 5	6.3 4	9.2 5	12.0 5	14.5 4	18.8 2
1966	2.5 1	2.5 1	2.8 1	3.0 1	3.4 1	4.5 1	5.8 2	9.2 3	16.5 6	25.5 5
MEAN	4.642	4.975	5.575	6.408	7.792	9.683	11.017	12.725	16.875	26.992
VARIANCE	2.881	3.298	3.891	7.268	12.539	12.829	19.474	21.107	35.549	32.617
STD DEV	1.697	1.816	1.973	2.696	3.541	3.582	4.413	4.594	5.962	5.711
SKEWNESS	.437	.371	.283	.587	.649	.050	.933	.798	.558	-.181
SE OF SKEW.	.637	.637	.637	.637	.637	.637	.637	.637	.637	.637
SER CORR	.258	.254	.206	.265	.449	.453	.368	.214	.169	.497
C OF VAR	.366	.365	.354	.421	.454	.370	.401	.361	.353	.212

LOGS

MEAN OF	.640	.670	.720	.771	.850	.956	1.011	1.078	1.201	1.422
VAR OF	.026	.026	.025	.034	.040	.030	.030	.026	.025	.009
STD DEV OF	.160	.162	.160	.184	.200	.174	.174	.162	.160	.097
SKEW OF	.085	-.040	-.163	.043	.020	-.388	-.051	-.379	-.353	-.618
SE OF SKEW OF	.637	.637	.637	.637	.637	.637	.637	.637	.637	.637
SER CORR OF	.289	.263	.180	.253	.434	.486	.347	.173	.163	.556
C OF VAR OF	.250	.242	.221	.239	.236	.182	.172	.150	.133	.068

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	1.896	1.941	2.139	2.228	2.436	3.171	3.985	4.537	6.158	14.212
20.00	2.403	2.519	2.823	2.952	3.323	4.478	5.281	6.242	8.394	17.644
10.00	2.732	2.892	3.260	3.433	3.923	5.325	6.128	7.328	9.814	19.609
5.00	3.196	3.416	3.867	4.127	4.799	6.505	7.329	8.822	11.765	22.086
2.00	4.341	4.684	5.302	5.887	7.068	9.268	10.284	12.254	16.247	27.016
1.25	5.939	6.401	7.169	8.435	10.433	12.728	14.360	16.464	21.763	31.987
1.11	7.017	7.525	8.348	10.197	12.799	14.814	17.066	18.968	25.058	34.517
1.04	8.402	8.933	9.778	12.499	15.927	17.236	20.486	21.853	28.874	37.111
1.02	9.451	9.974	10.805	14.266	18.349	18.904	23.034	23.827	31.497	38.713
1.01	10.514	11.009	11.804	16.076	20.847	20.467	25.583	25.670	33.956	40.097

1-3910.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MCHOKUS BROOK AT MCHOKUS, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1955	997.0 1	455.0 1	257.0 1	165.0 1	92.7 1	53.1 6	41.5 7	41.2 7	38.3 6	32.0 5
1956	401.0 4	298.0 2	177.0 2	117.0 2	89.9 2	68.0 3	52.4 3	45.2 5	44.3 3	33.6 4
1957	235.0 13	149.0 10	104.0 8	72.1 8	52.6 10	44.2 8	39.2 9	35.3 9	34.0 10	21.6 11
1958	482.0 2	240.0 3	155.0 3	96.4 4	85.1 4	77.8 2	72.9 1	67.9 1	59.3 1	26.5 1
1959	251.0 10	130.0 13	72.1 13	53.1 13	44.5 13	36.3 11	31.8 12	29.4 12	29.3 11	22.2 10
1960	310.0 6	151.0 9	94.0 10	68.9 9	55.4 8	50.4 7	47.3 5	46.6 3	42.7 4	35.6 2
1961	275.0 9	199.0 5	141.0 4	103.0 3	84.9 3	82.7 1	72.4 2	61.2 2	48.4 2	34.6 3
1962	448.0 3	236.0 4	132.0 5	84.2 5	73.9 5	59.0 4	46.6 6	42.7 6	34.9 9	24.6 8
1963	247.0 11	143.0 11	102.0 9	79.5 6	59.7 7	42.6 9	37.2 10	34.7 10	34.7 7	25.2 7
1964	242.0 12	135.0 12	79.1 12	61.5 10	53.6 9	42.5 10	40.0 8	40.4 8	34.9 8	22.7 9
1965	380.0 5	183.0 7	105.0 7	61.5 11	45.9 12	33.6 13	29.4 13	25.4 13	21.3 13	16.1 13
1966	280.0 8	157.0 8	84.3 11	57.9 12	47.5 11	38.1 12	32.6 11	30.5 11	25.4 12	19.9 12
1967	305.0 7	185.0 6	113.0 6	70.5 7	67.1 6	54.1 5	49.6 4	45.3 4	39.4 5	31.5 6
MEAN	373.308	204.692	124.269	84.508	65.985	52.338	45.608	41.985	37.531	27.392
VARIANCE	41793.691	8081.535	2530.229	935.839	331.468	249.761	192.602	145.848	98.056	46.474
STD DEV	204.435	89.897	50.301	30.591	18.206	15.804	13.878	12.077	9.902	6.817
SKEWNESS	2.689	2.050	1.676	1.664	.389	.779	1.096	.890	.543	-.075
SE OF SKEW	.616	.616	.616	.616	.616	.616	.616	.616	.616	.616
SER CORR	.037	.452	.431	.487	.124	-.022	-.124	-.168	-.054	.020
C OF VAR	.548	.439	.405	.362	.276	.302	.304	.288	.264	.249

LOGS

MEAN OF	2.533	2.282	2.067	1.905	1.804	1.701	1.642	1.607	1.560	1.424
VAR OF	.031	.025	.024	.019	.014	.016	.015	.015	.014	.013
STD DEV OF	.175	.157	.154	.138	.119	.126	.123	.121	.117	.113
SKEW OF	1.705	1.256	.829	.911	.189	.361	.577	.234	-.277	-.384
SE OF SKEW OF	.616	.616	.616	.616	.616	.616	.616	.616	.616	.616
SER CORR OF	-.115	.272	.288	.385	.116	.037	-.085	-.132	.052	.078
C OF VAR OF	.069	.069	.074	.073	.066	.074	.075	.075	.075	.080

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	215.674	114.954	63.631	47.512	35.025	27.644	25.592	22.248	18.433	13.462
1.05	223.031	123.098	71.613	52.319	41.246	32.180	28.934	26.124	22.897	16.841
1.11	230.886	129.866	77.363	55.825	45.143	35.106	31.165	28.570	25.577	18.847
1.25	246.313	141.251	86.189	61.238	50.507	39.234	34.392	31.957	29.110	21.464
2.00	306.016	177.726	111.203	76.609	63.183	49.423	42.696	40.054	36.781	27.019
5.00	444.508	248.424	153.714	102.571	80.008	63.816	55.089	50.978	45.665	33.215
10.00	580.845	310.057	187.489	123.011	90.966	73.682	63.961	58.190	50.786	36.666
25.00	819.746	407.733	237.184	152.817	104.704	86.566	75.955	67.330	56.595	40.472
50.00	1059.270	497.120	279.741	178.128	114.904	96.486	85.476	74.183	60.532	42.986
100.00	1365.352	602.912	327.437	206.300	125.102	106.693	95.515	81.086	64.192	45.274

STATISTICS OF MONTHLY MEANS, 1955-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1955-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
JAN	23.26	19.97	2.375	.8584	7.063	.197	1.255	.3148	.3672	.2508	7.715	.485
FEB	28.31	13.22	.1316	.4670	8.596	.556	1.397	.2460	-.9135	.1761	8.585	.526
MAR	27.91	11.38	.9544	.4078	8.476	.215	1.415	.1658	.5245	.1171	8.699	.352
APR	28.94	13.01	1.062	.4495	8.789	.554	1.423	.1922	-.0643	.1351	8.745	.541
MAY	36.48	11.66	.6566	.3197	11.08	.237	1.542	.1349	.3195	.0875	9.480	.173
JUN	47.35	15.14	.3523	.3197	14.38	.149	1.654	.1427	-.2019	.0863	10.17	.024
JUL	43.24	17.98	.5038	.4158	13.13	.586	1.600	.1882	-.1773	.1176	9.832	.498
AUG	26.37	12.23	1.139	.4637	8.007	.703	1.382	.1868	.5034	.1351	8.496	.607
SEP	15.56	3.936	-1.039	.2530	4.724	.375	1.175	.1326	-1.482	.1128	7.225	.415
	14.33	8.564	.7197	.5978	4.350	.468	1.080	.2737	-.1226	.2533	6.641	.544
	21.14	21.19	2.543	1.002	6.420	.022	1.183	.3493	.5351	.2951	7.274	.254
	16.43	9.363	1.775	.5697	4.991	.235	1.162	.2211	.3083	.1903	7.140	.377

1-3915.00 SADDLE RIVER AT LODI, N. J.

Location.--Lat 40°53'25", long 74°04'51", 560 feet upstream from Outwater Lane Bridge.

Drainage area.--54.6 sq mi.

Remarks.--Diversion since September 1965 significant at low and medium flow only.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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
YEAR	NUMBER OF DAYS IN CLASS																																		CFS DAYS
1924					4	13	2		6	34	30	14	17	17	22	16	30	31	30	44	15	13	12	6	1	4		3		2					34765.0
1925									6	16	44	54	50	37	24	27	27	13	14	15	17	5	5	4	4			2		1					25969.0
1926																																			28445.0
1927																																			36774.0
1928																																			464571.0
1929																																			30276.0
1930																																			22614.0
1931																																			25032.0
1932																																			18005.0
1933																																			41553.0
1934																																			31003.0
1935																																			25322.0
1936																																			32227.0
1937																																			36104.0
1938																																			42004.0
1939																																			38011.0
1940																																			32210.0
1941																																			25425.3
1942																																			31658.7
1943																																			36208.0
1944																																			35334.1
1945																																			52351.0
1946																																			43007.0
1947																																			35340.0
1948																																			38044.0
1949																																			28738.0
1950																																			21025.0
1951																																			44070.0
1952																																			58075.0
1953																																			46034.4
1954																																			25060.0
1955																																			37412.0
1956																																			42548.0
1957																																			29576.0
1958																																			48549.0
1959																																			28375.0
1960																																			43023.0
1961																																			42664.0
1962																																			30274.0
1963																																			29744.0
1964																																			27519.0
1965																																			19707.0
1966																																			18338.0
1967																																			35823.0

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	16071	100.0	9	25.00	867	14529	90.4	18	120.0	1183	3657	22.8	27	610	34	94	5
1	6.00	9	16071	100.0	10	30.00	941	13662	85.0	19	150.0	763	2474	15.4	28	730	31	60	3
2	7.20	3	16062	99.9	11	35.00	1167	12721	79.2	20	180.0	456	1711	10.6	29	870	11	29	1
3	8.60	12	16059	99.9	12	42.00	1264	11554	71.9	21	210.0	402	1255	7.8	30	1000	10	18	1
4	10.20	54	16047	99.9	13	51.00	1238	10290	64.0	22	250.0	277	853	5.3	31	1200	4	8	0
5	12.00	161	15993	99.5	14	60.00	1589	9052	56.3	23	300.0	205	576	3.6	32	1500	2	4	0
6	15.00	123	15832	98.5	15	72.00	1425	7463	46.4	24	360.0	124	371	2.3	33	1800	2	2	0
7	17.00	513	15709	97.7	16	86.00	1102	6038	37.6	25	430.0	92	247	1.5	34	2100	2	2	0
8	21.00	667	15196	94.6	17	100.00	1279	4936	30.7	26	510.0	61	155	1.0					

1-3915.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

SADDLE RIVER AT LOOI, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1924	18.0 21	20.0 24	21.7 25	24.5 26	27.7 25	30.8 24	30.7 24	38.7 20	40.9 18	42.5 20
1925	17.0 20	19.3 23	20.0 21	21.7 22	28.7 26	31.2 25	37.4 23	40.4 21	45.3 18	46.0 14
1926	16.0 17	17.0 18	18.1 17	21.1 21	26.8 23	28.0 19	34.7 21	40.4 22	46.5 21	46.2 12
1927	27.0 34	27.3 34	30.3 35	34.6 38	40.2 37	59.5 41	65.1 39	72.9 39	105.0 41	133.0 30
1928	28.0 35	30.0 37	33.7 39	43.3 41	49.7 41	51.9 37	52.4 34	58.5 34	70.3 34	114.0 25
1929	10.0 6	15.0 11	16.1 11	18.1 12	20.6 12	22.2 10	28.9 13	33.9 15	39.5 12	76.1 13
1930	6.0 1	8.7 2	10.9 3	12.4 4	16.8 5	21.4 8	25.0 8	24.1 4	32.6 5	55.4 2
1931	9.0 5	12.7 7	14.6 8	15.8 6	18.7 8	23.2 12	25.8 10	28.3 10	33.4 7	40.1 7
1932	7.0 3	7.7 1	8.9 1	10.1 1	10.7 1	13.2 1	16.2 1	20.4 1	31.0 4	73.4 11
1933	19.0 25	20.3 25	23.4 29	25.4 28	31.8 29	53.2 38	62.1 38	73.3 40	86.7 37	106.0 32
1934	6.0 2	10.3 4	14.0 7	16.9 10	25.3 21	27.7 17	43.9 27	53.7 30	67.7 32	92.2 10
1935	11.0 8	11.3 6	11.7 4	11.9 3	13.1 3	19.4 4	18.6 3	21.8	27.7 3	70.3 9
1936	16.0 18	16.7 17	18.0 16	19.1 16	22.2 16	27.6 16	30.5 14	37.7 19	46.2 19	95.0 22
1937	20.0 26	21.7 27	23.0 27	26.5 29	30.9 28	40.5 28	49.3 32	56.6 33	67.2 31	67.8 26
1938	33.0 42	35.7 42	38.9 42	39.9 40	48.8 40	72.6 42	90.7 42	98.5 42	113.0 42	137.0 40
1939	13.7 11	14.9 10	15.8 10	16.6 8	19.5 10	21.4 9	23.1 6	23.8 3	27.4 2	47.0 4
1940	22.0 30	22.3 29	23.1 28	25.1 27	29.8 27	39.3 26	40.7 25	43.7 23	50.8 23	101.0 30
1941	14.7 12	15.3 14	16.4 13	16.9 9	18.7 9	20.3 6	25.2 9	27.8 9	32.0 6	66.2 5
1942	22.0 31	22.3 30	27.7 32	34.4 36	39.8 36	42.6 31	54.2 35	64.1 36	88.0 38	114.0 36
1943	18.4 22	19.0 22	20.0 22	23.2 25	26.8 24	27.8 18	32.2 17	36.1 17	54.2 22	87.2 16
1944	10.6 7	10.9 5	12.3 5	15.8 7	18.5 7	20.1 5	28.0 12	33.2 14	39.8 13	92.0 14
1945	42.0 43	47.0 43	53.3 43	59.0 43	60.2 43	84.7 43	106.0 43	115.0 43	122.0 43	155.0 43
1946	29.0 36	33.7 41	34.9 40	38.8 39	44.2 39	48.2 35	51.0 33	59.2 35	65.7 30	67.3 23
1947	21.0 28	21.7 28	21.9 26	22.4 23	23.5 17	28.2 20	34.8 22	44.6 24	61.2 24	100.0 31
1948	18.4 23	18.8 20	19.6 20	19.9 17	21.1 13	22.9 11	27.0 11	30.7 12	30.1 11	101.0 31
1949	14.7 13	15.1 12	15.6 9	18.5 14	22.1 15	23.8 13	24.1 7	24.4 5	26.5 5	50.1 3
1950	20.0 27	20.3 26	21.0 24	22.6 24	26.5 22	29.4 21	33.3 19	35.6 16	46.2 20	90.4 27
1951	30.0 40	31.0 39	31.7 37	34.6 37	38.1 34	57.9 39	68.2 40	69.3 38	80.4 35	138.0 41
1952	31.0 41	31.3 40	32.4 38	32.9 35	33.7 31	40.6 29	60.7 37	64.3 37	80.5 36	104.0 42
1953	14.7 14	15.3 13	16.3 12	17.4 11	18.0 6	18.8 3	21.8 4	27.6 8	37.5 10	80.6 15
1954	15.0 15	16.0 16	18.3 18	20.5 18	24.3 20	30.1 22	33.9 20	51.0 26	68.8 33	97.6 25
1955	19.0 24	19.0 21	20.3 23	21.1 19	24.2 19	40.2 27	43.2 26	54.6 31	90.2 30	119.0 38
1956	29.0 37	29.7 35	30.9 36	32.6 34	35.0 32	46.4 34	44.1 28	51.4 27	62.8 27	90.0 17
1957	15.0 16	15.7 15	16.7 14	19.0 15	21.2 14	27.4 15	30.8 15	32.5 13	39.0 14	100.0 34
1958	25.0 32	26.0 33	28.3 33	32.1 33	40.6 38	42.6 32	48.7 30	49.0 25	62.4 26	101.0 30
1959	25.0 33	25.7 32	26.6 31	28.3 30	38.1 35	51.2 36	55.0 36	56.0 32	64.4 30	97.1 24
1960	29.0 38	30.0 38	35.3 41	46.3 42	53.0 42	59.0 40	73.6 41	77.6 41	91.0 40	118.0 37
1961	29.0 39	29.7 36	30.3 34	31.8 32	35.2 33	41.7 30	47.5 29	52.0 28	61.3 25	101.0 20
1962	22.0 29	22.7 31	24.9 30	29.1 31	33.6 30	43.0 33	48.8 31	53.5 29	63.5 28	93.1 21
1963	17.0 19	18.0 19	19.4 19	21.1 20	23.9 18	30.3 23	32.4 18	36.7 18	43.2 16	69.6 8
1964	13.0 9	13.3 8	13.7 6	13.9 5	15.5 4	21.0 7	22.0 5	24.5 6	34.2 8	62.3 4
1965	13.0 10	14.0 9	17.7 15	18.2 13	20.4 11	26.0 14	30.9 16	29.9 11	35.9 9	51.7 1
1966	8.8 4	9.2 3	10.5 2	11.4 2	12.6 2	14.2 2	16.8 2	24.8 7	44.0 17	72.6 10
MEAN	19.186	20.502	22.284	24.763	28.779	35.384	41.300	46.421	57.832	94.484
VARIANCE	65.604	69.017	80.384	106.888	143.923	252.124	372.423	433.851	591.842	623.384
STD DEV	8.100	8.308	8.966	10.339	11.997	15.878	19.298	20.829	24.328	24.968
SKEWNESS	.524	.897	1.144	1.167	1.111	1.081	1.337	1.220	.826	.523
SE OF SKEW	.361	.361	.361	.361	.361	.361	.361	.361	.361	.361
SER CORR	.293	.259	.186	.210	.197	.084	.083	.082	.051	.196
C OF VAR	.422	.405	.402	.418	.417	.449	.467	.449	.421	.264

LOGS

MEAN OF	1.241	1.277	1.316	1.360	1.424	1.509	1.574	1.628	1.726	1.961
VAR OF	.040	.031	.028	.030	.031	.035	.036	.034	.032	.013
STD DEV OF	.200	.177	.169	.173	.175	.187	.190	.184	.178	.115
SKEW OF	-.542	-.138	.065	.154	.030	.146	.206	.226	.151	-.114
SE OF SKEW OF	.361	.361	.361	.361	.361	.361	.361	.361	.361	.361
SER CORR OF	.370	.295	.211	.247	.211	.097	.113	.124	.087	.237
C OF VAR OF	.161	.138	.128	.127	.123	.124	.121	.113	.103	.059

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	4.986	7.058	8.545	9.499	10.474	12.418	14.492	16.992	21.425	48.104
20.00	7.659	9.553	11.008	12.120	13.720	16.193	18.761	21.737	27.574	58.463
10.00	9.462	11.185	12.619	13.852	15.855	18.727	21.646	24.929	31.663	64.741
5.00	12.031	13.493	14.910	16.342	18.904	22.411	25.873	29.589	37.568	73.119
2.00	18.174	19.122	20.609	22.665	26.520	31.953	36.977	41.769	52.682	91.775
1.25	25.887	26.743	28.656	31.891	37.312	46.236	53.978	60.311	74.963	114.371
1.11	30.460	31.703	34.127	38.348	44.652	56.423	66.351	73.755	90.676	127.954
1.04	35.658	37.861	41.191	46.889	54.124	70.091	83.232	92.059	111.580	143.916
1.02	39.147	42.372	46.561	53.525	61.316	80.838	96.711	106.651	127.901	155.092
1.01	42.345	46.821	52.022	60.393	68.620	92.063	110.964	122.065	144.855	165.758

1967
1968
1969
1970
197125.9
24.4
23.6
22.3
21.0

1-3915.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SADDLE RIVER AT LODI, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1924	775.0 24	530.0 23	364.0 27	281.0 18	224.0 20	203.0 13	178.0 13	159.0 14	146.0 11	95.0 22
1925	730.0 27	524.0 25	370.0 20	261.0 23	231.0 19	180.0 20	146.0 27	127.0 29	99.7 36	70.9 37
1926	585.0 36	407.0 36	339.0 26	284.0 16	214.0 23	173.0 24	143.0 28	126.0 31	112.0 30	77.9 32
1927	1160.0 9	778.0 9	509.0 9	341.0 9	240.0 12	183.0 18	147.0 29	121.0 32	107.0 33	101.0 16
1928	691.0 30	588.0 15	371.0 19	275.0 20	237.0 15	201.0 14	182.0 12	166.0 17	162.0 7	149.0 2
1929	688.0 31	409.0 35	287.0 35	239.0 29	198.0 27	176.0 22	169.0 16	155.0 17	124.0 22	82.9 28
1930	355.0 44	241.0 44	166.0 44	130.0 44	109.0 44	108.0 41	101.0 41	98.5 38	86.9 39	62.0 40
1931	444.0 42	277.0 43	226.0 40	162.0 41	157.0 35	142.0 33	130.0 33	121.0 33	103.0 34	71.0 36
1932	575.0 38	357.0 39	241.0 38	164.0 40	145.0 40	113.0 39	104.0 40	95.4 40	79.4 42	51.6 43
1933	992.0 14	656.0 11	393.0 16	283.0 17	237.0 16	192.0 16	168.0 18	148.0 21	135.0 20	114.0 12
1934	730.0 28	521.0 26	315.0 32	205.0 34	181.0 32	164.0 27	148.0 26	131.0 26	116.0 27	87.1 25
1935	484.0 41	287.0 41	222.0 41	165.0 39	146.0 39	122.0 37	107.0 37	104.0 37	99.5 37	69.4 39
1936	1580.0 3	996.0 3	583.0 4	494.0 3	386.0 3	271.0 4	211.0 8	178.0 10	144.0 12	98.1 23
1937	575.0 25	477.0 30	288.0 34	238.0 30	197.0 28	174.0 23	160.0 19	150.0 20	140.0 15	99.2 18
1938	1450.0 4	976.0 4	533.0 7	296.0 14	202.0 26	150.0 32	153.0 24	135.0 25	123.0 23	118.0 9
1939	647.0 33	498.0 29	343.0 25	254.0 27	231.0 17	225.0 9	218.0 7	192.0 7	171.0 6	176.0 13
1940	798.0 21	632.0 13	397.0 14	331.0 10	250.0 9	222.0 10	204.0 9	181.0 9	140.0 16	88.0 24
1941	685.0 32	476.0 31	282.0 36	201.0 36	139.0 41	133.0 36	117.0 36	112.0 35	101.0 35	69.7 39
1942	615.0 35	528.0 24	368.0 21	326.0 12	207.0 24	153.0 30	134.0 31	120.0 34	112.0 31	85.7 24
1943	800.0 19	633.0 12	409.0 13	256.0 25	191.0 30	170.0 25	169.0 17	157.0 15	140.0 17	99.4 17
1944	800.0 20	513.0 27	357.0 23	307.0 13	238.0 14	221.0 11	189.0 11	161.0 13	137.0 19	96.5 21
1945	2330.0 1	1590.0 1	1080.0 1	692.0 1	449.0 1	280.0 2	232.0 6	214.0 4	199.0 4	143.0 3
1946	893.0 17	551.0 21	413.0 12	293.0 15	240.0 13	179.0 21	151.0 25	143.0 22	139.0 18	121.0 7
1947	795.0 22	474.0 32	317.0 30	221.0 33	202.0 25	185.0 17	176.0 14	170.0 11	141.0 13	96.8 20
1948	628.0 34	381.0 37	324.0 29	259.0 24	241.0 11	214.0 12	192.0 10	184.0 8	149.0 9	104.0 14
1949	826.0 18	585.0 17	374.0 18	278.0 19	217.0 21	181.0 19	160.0 20	155.0 16	127.0 21	78.7 31
1950	388.0 43	283.0 42	209.0 43	155.0 43	124.0 43	104.0 43	96.4 42	91.4 42	80.3 41	57.6 41
1951	2110.0 2	1190.0 2	789.0 2	492.0 4	345.0 4	270.0 5	236.0 5	209.0 5	181.0 5	123.0 4
1952	1310.0 5	796.0 8	485.0 10	368.0 6	274.0 8	260.0 7	249.0 3	222.0 3	215.0 1	161.0 1
1953	1190.0 8	827.0 7	624.0 3	504.0 2	407.0 2	329.0 1	267.0 1	249.0 1	214.0 2	120.0 5
1954	977.0 16	566.0 19	326.0 28	228.0 31	168.0 34	110.0 40	106.0 38	94.7 41	86.3 40	71.1 35
1955	1130.0 10	862.0 6	572.0 5	419.0 5	249.0 10	152.0 31	131.0 32	129.0 27	121.0 25	102.0 15
1956	1210.0 6	880.0 5	549.0 6	363.0 7	286.0 7	226.0 8	175.0 15	151.0 19	149.0 10	117.0 10
1957	744.0 26	539.0 22	393.0 15	267.0 21	194.0 29	161.0 29	140.0 30	127.0 30	121.0 26	85.8 30
1958	1100.0 11	617.0 14	513.0 8	356.0 8	287.0 6	266.0 6	252.0 2	246.0 2	212.0 3	133.0 4
1959	580.0 37	343.0 40	219.0 42	159.0 42	138.0 42	118.0 38	105.0 39	97.3 38	95.5 38	77.7 33
1960	917.0 15	577.0 18	307.0 33	221.0 32	180.0 33	164.0 28	156.0 21	154.0 18	141.0 14	122.0 8
1961	790.0 23	562.0 20	426.0 11	328.0 11	293.0 5	274.0 3	241.0 4	204.0 6	161.0 8	117.0 11
1962	1100.0 12	675.0 13	392.0 17	262.0 22	231.0 18	193.0 15	154.0 23	140.0 23	115.0 28	82.9 27
1963	551.0 39	445.0 34	315.0 31	243.0 28	183.0 31	138.0 34	119.0 35	110.0 36	112.0 29	81.5 29
1964	535.0 40	367.0 38	228.0 39	184.0 37	155.0 36	133.0 35	125.0 34	128.0 28	110.0 32	75.2 34
1965	1190.0 7	617.0 15	345.0 24	202.0 35	147.0 37	106.0 42	94.3 43	81.7 44	71.3 43	54.0 42
1966	1000.0 13	500.0 28	241.0 37	167.0 38	147.0 38	100.0 44	87.6 44	83.2 43	66.2 44	57.2 44
1967	720.0 29	471.0 33	331.0 27	255.0 26	214.0 22	168.0 26	155.0 22	140.0 24	127.0 24	98.1 19
MEAN	892.841	590.954	389.432	282.023	221.159	181.523	160.711	146.845	129.684	94.500
VARIANCE	162546.437	64706.766	27042.648	11932.973	5285.602	3066.567	2195.153	1745.693	1337.814	690.324
STD DEV	403.170	254.375	164.446	109.238	72.702	55.377	46.852	41.781	36.576	26.274
SKENNESS	1.766	1.783	2.098	1.607	1.246	.622	.541	.651	.679	.479
SE OF SKEW	.357	.357	.357	.357	.357	.357	.357	.357	.357	.357
SER CORR	-.020	-.021	.030	.073	.027	.082	.124	.103	.194	.254
C OF VAR	.452	.430	.422	.387	.329	.305	.292	.285	.282	.278

LOGS

MEAN OF	2.915	2.738	2.560	2.423	2.324	2.239	2.188	2.150	2.096	1.959
VAR OF	.030	.028	.025	.023	.018	.017	.016	.015	.015	.015
STD DEV OF	.174	.168	.159	.153	.134	.132	.126	.122	.122	.122
SKEW OF	.410	.288	.529	.378	.275	-.001	-.007	.029	-.071	-.165
SE OF SKEW OF	.357	.357	.357	.357	.357	.357	.357	.357	.357	.357
SER CORR OF	.018	.049	.087	.128	.058	.092	.116	.098	.193	.261
C OF VAR OF	.060	.062	.062	.063	.058	.059	.058	.057	.058	.063

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	366.359	241.252	179.343	129.027	109.538	85.602	78.231	73.817	64.008	45.630
1.05	447.706	299.072	211.501	154.643	130.173	105.303	95.486	89.106	78.212	56.481
1.11	502.878	337.573	233.389	171.617	143.436	117.595	106.176	98.562	86.918	63.090
1.25	584.082	393.342	265.668	196.113	162.090	134.412	120.722	111.418	98.650	71.934
2.00	800.086	537.378	351.766	259.022	207.874	173.568	154.276	141.075	125.233	91.669
5.00	1139.159	753.744	487.443	352.987	271.987	224.115	197.065	178.972	158.232	115.544
10.00	1392.231	909.284	589.116	420.349	315.593	256.143	223.924	202.833	178.477	129.843
25.00	1745.802	1119.912	731.758	511.479	372.160	295.349	256.576	231.930	202.643	146.574
50.00	2034.615	1287.175	848.783	583.836	415.438	323.808	280.138	252.992	219.800	158.235
100.00	2345.970	1463.417	975.440	660.112	459.737	351.739	303.159	273.626	236.349	169.318

1-3920.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

WEASEL BROOK AT CLIFTON, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1937	0.1 8	0.1 6	0.4 8	0.8 12	1.1 11	1.5 9	2.4 13	2.4 12	3.0 11	4.3 4
1938	0.2 10	0.2 9	0.5 9	0.7 9	0.9 8	2.1 15	3.4 17	3.8 17	4.6 16	6.5 15
1939	0.0 1	0.0 1	0.0 1	0.0 1	0.1 1	0.2 1	0.4 1	0.4 1	0.5 1	2.8 2
1940	0.0 2	0.0 2	0.2 4	0.3 5	0.7 7	1.2 7	1.5 7	1.7 6	2.3 5	4.9 7
1941	0.0 3	0.1 7	0.3 5	0.4 7	0.6 5	1.0 6	1.3 6	1.9 7	2.3 6	3.6 3
1942	0.3 11	0.3 10	0.6 10	1.0 13	1.2 12	1.5 10	2.0 11	3.1 14	6.2 24	6.7 16
1943	0.0 4	0.1 8	0.3 6	0.3 6	0.7 6	0.9 5	1.0 4	1.4 4	2.2 4	4.6 5
1944	0.0 5	0.0 3	0.1 2	0.1 2	0.2 2	0.4 2	1.0 5	1.7 5	2.1 3	5.0 8
1945	1.7 22	1.9 22	2.0 20	2.2 21	2.5 20	3.5 20	4.7 24	5.2 25	5.9 22	7.3 19
1946	0.4 12	0.6 13	1.1 15	1.4 16	1.8 16	2.1 16	2.2 12	2.2 10	2.9 10	5.4 11
1947	0.1 9	0.3 11	0.6 11	0.7 8	1.2 13	1.7 13	1.9 10	2.0 8	3.2 12	5.0 9
1948	0.0 6	0.0 4	0.2 3	0.2 3	0.3 3	0.5 3	0.9 3	1.0 3	2.4 7	5.0 12
1949	0.0 7	0.1 5	0.3 7	0.3 4	0.4 4	0.5 4	0.7 2	0.8 2	1.0 2	2.7 1
1950	0.4 13	0.5 12	0.7 12	0.8 10	1.2 14	1.4 8	1.8 8	2.7 9	2.6 8	5.2 10
1951	0.6 14	0.8 15	0.8 13	1.0 14	1.0 9	1.8 14	2.5 14	3.0 13	3.6 13	6.9 19
1952	0.6 15	0.7 14	0.8 14	0.8 11	1.0 10	1.6 11	2.9 15	3.5 15	4.4 15	8.4 25
1953	0.8 16	1.2 16	1.3 16	1.4 15	1.6 15	1.7 12	1.9 9	2.3 11	2.9 9	4.8 6
1954	1.2 18	1.5 18	1.9 18	2.0 17	2.3 18	2.7 17	3.1 16	3.9 18	5.1 19	6.1 13
1955	1.5 20	1.8 20	2.0 21	2.0 18	2.1 17	3.2 18	3.7 20	4.1 19	6.6 25	7.5 21
1956	1.7 23	1.9 23	2.2 24	2.2 22	3.1 23	3.9 23	4.1 21	4.5 21	4.9 17	6.2 14
1957	1.5 21	1.8 21	1.9 19	2.1 19	2.8 21	3.5 21	3.5 18	3.7 16	4.0 14	8.3 26
1958	1.0 17	1.4 17	2.1 22	2.2 23	3.6 24	4.2 24	4.5 23	5.0 23	5.6 21	7.4 20
1959	2.1 25	2.3 25	2.4 25	2.8 25	3.6 25	4.7 25	4.9 25	5.1 24	5.5 20	6.8 17
1960	1.9 24	2.0 24	2.2 23	2.3 24	2.8 22	3.5 22	4.1 22	4.7 22	6.1 23	7.9 23
1961	1.4 19	1.6 19	1.8 17	2.1 20	2.4 19	3.2 19	3.7 19	4.4 20	5.0 18	7.6 22

	1 [†]	3 [†]	7 [†]	14 [†]	30	60	90	120	183	ANNUAL
MEAN	.972	1.010	1.112	1.254	1.568	2.100	2.564	2.960	3.796	5.912
VARIANCE	.442	.590	.642	.697	1.135	1.667	1.814	2.067	2.898	2.607
STD DEV	.665	.768	.801	.835	1.065	1.291	1.347	1.438	1.702	1.615
SKEWNESS	.183	.173	.297	.231	.508	.399	.151	-.011	-.051	-.349
SE OF SKEW	.536	.501	.472	.472	.464	.464	.464	.464	.464	.464
SER CORR	.579	.688	.778	.725	.759	.693	.523	.468	.261	.204
C OF VAR	.684	.761	.720	.665	.679	.615	.525	.486	.448	.273

LOGS

	1	3	7	14	30	60	90	120	183	ANNUAL
MEAN OF	-.162	-.199	-.104	-.037	.060	.214	.333	.403	.520	.753
VAR OF	.182	.249	.166	.158	.161	.124	.082	.077	.068	.018
STD DEV OF	.426	.499	.408	.397	.401	.352	.286	.278	.262	.135
SKEW OF	-.819	-.603	-.504	-.799	-.984	-.946	-.851	-1.202	-1.504	-.970
SE OF SKEW OF	.536	.501	.472	.472	.464	.464	.464	.464	.464	.464
SER CORR OF	.634	.623	.609	.526	.465	.418	.398	.352	.197	.142
C OF VAR OF	-2.629	-2.506	-3.915	-10.691	6.673	1.640	.859	.690	.503	.179

† Zero flow values excluded in computation of statistics.

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WEASEL BROOK AT CLIFTON, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	140.0 3	70.0 3	35.4 6	18.0 16	9.7 21	8.0 20	7.7 20	7.0 20	6.0 21	5.5 15
1939	43.0 25	26.6 23	20.2 23	17.2 18	14.5 13	13.5 6	12.6 5	10.7 5	8.6 11	4.9 18
1940	97.0 11	40.7 20	22.5 21	17.5 17	13.1 16	11.9 12	10.8 10	9.5 12	7.3 16	4.2 22
1941	77.0 16	42.7 18	22.0 22	13.9 23	8.7 23	7.6 23	6.4 23	5.8 23	4.9 23	3.7 23
1942	77.0 17	55.0 8	39.5 5	34.1 1	22.1 2	13.5 7	10.2 11	8.0 18	7.0 18	5.3 17
1943	80.0 15	48.3 13	26.6 18	15.5 21	10.6 20	9.5 19	9.0 18	8.5 16	7.0 19	4.7 19
1944	96.0 12	55.0 9	29.1 14	20.7 11	13.4 14	11.6 14	9.8 15	8.5 17	7.9 12	5.4 16
1945	204.0 1	89.0 1	51.2 1	32.2 2	19.6 4	13.3 9	11.0 8	9.9 9	9.3 5	7.2 6
1946	104.0 10	46.8 14	30.1 10	22.2 7	18.9 5	12.7 10	11.9 7	10.3 7	7.9 13	6.9 9
1947	50.0 23	24.6 24	14.1 24	9.5 24	7.5 24	7.0 24	6.5 22	6.1 22	4.9 24	3.6 24
1948	76.0 18	32.7 21	24.9 19	15.6 20	13.4 15	10.9 17	9.2 17	9.6 10	8.7 9	5.9 13
1949	59.0 22	45.0 16	27.6 17	20.7 12	16.0 9	12.3 11	10.0 13	9.5 11	7.5 15	4.4 21
1950	47.0 24	22.1 25	11.1 25	7.4 25	5.2 25	4.9 25	4.3 25	4.0 25	3.8 25	2.6 25
1951	139.0 5	67.7 4	43.9 2	26.1 5	17.9 7	14.5 4	12.2 6	10.7 6	9.3 6	6.1 12
1952	116.0 9	50.7 11	30.8 9	21.3 10	15.3 11	13.4 8	12.8 4	11.3 4	11.5 3	8.5 2
1953	137.0 6	66.0 6	40.6 4	29.6 4	22.9 1	17.9 2	15.2 2	13.8 2	11.8 2	7.2 7
1954	140.0 4	53.7 10	28.8 15	17.0 19	11.8 19	7.9 21	6.0 24	5.3 24	5.4 22	4.7 20
1955	125.0 7	70.7 2	41.2 3	30.9 3	18.3 6	11.2 15	8.4 19	7.5 19	7.1 17	6.7 10
1956	60.0 20	49.3 12	29.7 12	19.8 13	15.2 12	11.7 13	10.1 12	9.3 13	8.8 8	7.3 5
1957	72.0 19	45.3 15	28.6 16	18.4 15	13.0 17	10.8 18	9.8 14	8.7 15	7.9 14	6.1 11
1958	92.0 13	42.3 19	31.1 8	23.7 6	21.1 3	19.6 1	17.6 1	16.9 1	14.4 1	9.7 1
1959	59.0 21	30.8 22	22.7 20	13.9 22	9.5 22	7.7 22	6.8 21	6.4 21	6.2 20	5.8 14
1960	123.0 8	58.7 7	29.7 13	18.9 14	12.1 18	11.0 16	9.4 16	9.2 14	8.9 7	8.3 3
1961	88.0 14	44.0 17	30.0 11	21.4 9	16.0 10	15.3 3	13.4 3	11.5 3	10.4 4	7.8 4
1962	167.0 2	67.7 5	34.1 7	21.8 8	17.3 8	13.9 5	10.8 9	10.1 8	8.6 10	6.9 8

1-3925.00 SECOND RIVER AT BELLEVILLE, N. J.

SUMMARY DURATION TABLE OF DAILY DISCHARGE

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9862	100.0	9	8.70	1069	5967	60.5	18	39.0	173	876	8.9	27	170	34	83	.8
1	2.30	4	9862	100.0	10	10.00	985	4898	49.7	19	46.0	103	703	7.1	28	200	18	49	.4
2	2.70	59	9858	100.0	11	12.00	850	3913	39.7	20	54.0	113	607	6.1	29	240	13	31	.3
3	3.20	118	9799	99.4	12	14.00	756	3063	31.1	21	64.0	91	487	4.9	30	280	6	18	.1
4	3.80	281	9681	98.2	13	17.00	479	2307	23.4	22	75.0	98	396	4.0	31	340	5	12	.1
5	4.50	528	9400	95.3	14	20.00	357	1828	18.5	23	89.0	97	298	3.0	32	400	4	7	.0
6	5.30	676	8872	90.0	15	24.00	214	1471	14.9	24	110.0	33	201	2.0	33	470	1	3	.0
7	6.20	1074	8196	83.1	16	28.00	231	1257	12.7	25	120.0	57	168	1.7	34	550	2	2	.0
8	7.40	1155	7122	72.2	17	33.00	150	1026	10.4	26	150.0	28	111	1.1					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

SECOND RIVER AT BELLEVILLE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1938	5.2 24	5.9 24	6.1 22	6.7 21	8.3 22	9.7 16	13.0 22	13.6 20	18.3 24	23.1 25
1939	2.7 4	3.0 2	3.4 2	3.6 1	4.5 3	4.6 1	7.2 3	7.6 2	8.4 2	13.4 2
1940	4.6 19	5.1 19	5.3 17	5.6 15	7.1 14	11.2 22	12.6 21	13.6 21	14.0 13	20.1 20
1941	2.3 1	3.2 4	3.7 4	3.9 3	5.4 6	5.9 4	8.0 4	10.2 6	11.7 6	15.1 4
1942	4.6 20	5.6 23	6.2 23	8.3 25	9.4 24	11.0 21	12.5 20	14.8 23	17.9 23	19.4 16
1943	3.8 12	4.6 15	5.4 18	5.8 20	6.7 10	10.3 19	11.4 17	12.4 15	14.1 14	17.4 9
1944	3.3 9	4.0 10	4.6 11	4.8 7	6.4 9	7.8 8	11.2 16	11.7 9	15.2 19	18.5 14
1945	7.2 26	7.6 26	8.0 26	8.2 24	10.3 25	14.0 25	17.2 26	19.5 26	19.1 25	23.7 26
1946	4.3 17	4.6 16	4.9 12	5.3 10	6.9 12	7.0 5	8.2 5	9.2 5	10.7 4	16.8 7
1947	3.5 10	3.8 7	4.3 9	5.0 8	5.3 5	8.3 10	9.6 7	11.9 11	13.0 8	17.8 10
1948	3.8 13	4.2 12	4.9 13	5.6 16	7.1 15	7.9 9	8.3 6	8.3 4	12.2 7	20.8 22
1949	2.5 3	3.0 3	3.4 3	3.9 4	4.4 1	5.6 3	6.2 1	6.5 1	8.3 1	12.3 1
1950	4.0 14	4.6 17	5.0 14	5.6 17	8.2 21	9.0 12	11.8 18	12.5 16	13.8 11	18.2 11
1951	4.9 21	5.3 20	5.9 21	7.0 22	7.5 18	9.7 17	11.0 14	13.0 17	14.8 16	19.4 17
1952	4.9 22	5.5 21	5.7 20	5.8 18	6.1 7	7.6 6	10.1 10	11.8 10	14.5 15	21.4 23
1953	2.4 2	2.9 1	3.2 1	3.6 2	4.4 2	5.4 2	7.0 2	8.0 3	8.8 3	14.8 3
1954	2.9 5	3.8 8	4.1 7	5.4 13	6.9 12	8.5 11	10.2 11	12.3 14	13.8 12	15.7 6
1955	4.3 18	5.0 18	5.1 15	5.4 14	6.8 11	7.6 7	10.2 12	12.2 12	16.3 21	18.2 12
1956	4.0 15	4.5 13	5.2 16	5.3 11	7.6 19	12.4 23	13.6 23	14.6 22	15.0 17	17.1 8
1957	2.9 6	3.6 5	4.0 5	5.4 12	7.6 20	9.5 14	10.4 13	10.7 7	11.3 5	19.0 18
1958	4.9 23	5.6 22	6.4 24	7.2 23	9.3 23	10.9 20	11.8 19	13.0 18	16.1 20	19.0 15
1959	3.1 8	4.0 11	4.5 10	5.1 9	7.4 17	13.1 24	14.0 24	15.6 24	16.9 22	18.3 13
1960	3.7 11	3.8 9	4.3 8	4.4 6	6.4 8	9.1 13	10.0 8	11.0 8	15.3 18	20.0 19
1961	4.2 16	4.6 14	5.4 19	5.8 19	7.2 16	9.6 15	11.1 15	12.2 13	13.2 9	20.2 21
1962	6.0 25	7.0 25	7.8 25	8.7 26	11.7 26	14.2 26	15.3 25	16.7 25	19.9 26	21.4 24
1963	3.0 7	3.6 6	4.1 6	4.1 5	5.1 4	10.1 18	10.1 9	13.2 19	13.5 10	15.4 5
MEAN	3.962	4.554	5.035	5.596	7.077	9.231	10.846	12.158	14.085	18.361
VARIANCE	1.342	1.395	1.490	1.941	3.148	6.431	6.648	8.304	9.492	7.810
STD DEV	1.158	1.181	1.221	1.393	1.774	2.536	2.578	2.882	3.081	2.795
SKENNESS	.824	.821	.776	.704	.654	.197	.382	.233	-.160	-.249
SE OF SKEW	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR	-.241	-.274	-.214	-.286	-.222	-.089	-.142	-.117	-.144	-.351
C OF VAR	.292	.259	.242	.249	.251	.275	.238	.237	.219	.152

LOGS

MEAN OF	.581	.645	.690	.735	.837	.948	1.023	1.072	1.138	1.259
VAR OF	.015	.012	.011	.011	.012	.016	.011	.012	.010	.005
STD DEV OF	.124	.109	.103	.106	.108	.126	.106	.108	.102	.069
SKEW OF	.077	.214	.168	.146	-.058	-.477	-.291	-.573	-.716	-.650
SE OF SKEW OF	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR OF	-.274	-.296	-.226	-.303	-.224	-.101	-.114	-.067	-.134	-.339
C OF VAR OF	.214	.169	.149	.144	.130	.133	.103	.101	.090	.055

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	1.987	2.560	2.912	3.167	3.803	4.098	5.693	5.977	7.065	11.647
20.00	2.391	2.966	3.360	3.680	4.538	5.320	6.939	7.564	8.958	13.613
10.00	2.643	3.219	3.636	3.996	4.981	6.055	7.675	8.490	10.046	14.686
5.00	2.988	3.565	4.009	4.423	5.572	7.023	8.634	9.676	11.416	15.992
2.00	3.794	4.376	4.867	5.405	6.886	9.087	10.674	12.098	14.122	18.459
1.25	4.841	5.440	5.965	6.662	8.481	11.382	12.978	14.626	16.793	20.796
1.11	5.510	6.127	6.659	7.456	9.443	12.646	14.282	15.949	18.118	21.933
1.04	6.336	6.982	7.511	8.429	10.580	14.024	15.741	17.334	19.446	23.065
1.02	6.941	7.614	8.131	9.138	11.380	14.921	16.719	18.205	20.247	23.748
1.01	7.538	8.244	8.742	9.835	12.147	15.728	17.621	18.967	20.924	24.327

1-3925.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 31

SECOND RIVER AT BELLEVILLE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	658.0 1	271.0 2	137.0 2	76.1 2	55.5 1	38.6 2	36.4 1	31.6 3	26.0 7	21.0 8
1939	219.0 23	110.0 24	81.8 16	51.5 16	40.5 11	33.4 12	31.5 9	27.1 12	23.6 12	17.1 18
1940	435.0 4	170.0 8	87.7 12	51.4 17	39.1 13	36.5 5	33.5 5	31.1 4	26.7 6	18.5 13
1941	321.0 10	149.0 11	88.0 22	38.8 23	27.3 26	23.0 26	20.4 25	19.0 25	17.7 25	15.4 24
1942	230.0 21	144.0 13	106.0 5	70.0 3	48.6 5	32.0 15	26.9 15	23.0 18	21.6 16	17.7 16
1943	198.0 25	123.0 21	67.4 24	38.7 24	29.5 25	23.3 25	23.0 20	21.5 21	20.7 19	17.3 17
1944	470.0 6	299.0 1	141.0 1	69.4 4	37.7 18	31.4 16	26.6 16	24.2 15	21.5 17	19.3 12
1945	291.0 14	157.0 9	109.0 4	67.2 5	47.1 6	35.2 8	32.5 6	30.7 5	27.9 7	22.6 1
1946	302.0 12	126.0 20	94.4 8	59.1 11	49.7 3	35.1 9	31.6 7	27.2 10	23.0 13	21.2 4
1947	194.0 26	82.0 27	51.7 27	33.8 26	31.6 24	27.7 19	25.0 18	23.2 17	20.4 21	16.0 26
1948	271.0 15	104.0 25	74.3 18	50.4 18	39.7 12	35.5 7	31.5 8	30.0 6	27.6 3	20.0 7
1949	227.0 22	149.0 12	85.5 14	57.6 13	43.8 8	33.3 13	27.8 13	27.1 11	22.2 14	16.5 21
1950	211.0 24	97.7 26	53.9 26	32.9 27	21.8 27	20.6 27	17.7 27	16.7 27	15.9 27	12.0 27
1951	351.0 9	151.0 10	93.7 9	59.8 9	40.9 10	34.1 10	29.5 12	26.8 13	25.3 9	19.5 10
1952	252.0 18	115.0 23	67.6 23	48.5 19	37.9 17	32.9 14	31.0 10	28.5 9	27.2 5	22.5 2
1953	248.0 19	127.0 19	81.9 15	62.5 7	51.1 2	42.1 1	36.9 2	32.0 2	27.4 4	19.6 9
1954	553.0 2	173.0 3	92.6 10	58.0 12	35.3 19	24.4 24	19.4 26	17.1 26	16.9 24	13.6 26
1955	368.0 8	202.0 4	113.0 3	81.9 1	46.4 7	28.2 17	24.2 19	20.8 23	19.1 24	16.2 22
1956	300.0 13	197.0 5	98.1 7	59.3 10	38.6 14	26.8 20	22.7 22	21.5 22	19.8 22	18.0 15
1957	190.0 27	128.0 18	71.9 20	45.1 20	33.1 20	27.7 18	26.1 17	23.3 16	20.7 19	17.0 10
1958	256.0 17	129.0 17	74.0 19	54.9 14	38.6 15	36.3 6	34.6 3	33.3 1	29.6 1	22.2 3
1959	246.0 20	131.0 16	75.9 17	43.1 21	32.7 21	24.9 22	21.0 24	20.5 24	19.1 23	16.7 20
1960	406.0 5	179.0 7	86.7 13	52.2 15	38.3 16	33.8 11	27.6 14	24.3 14	23.9 11	21.6 4
1961	264.0 16	122.0 22	88.7 11	59.9 8	43.3 9	37.8 4	33.6 4	29.2 7	25.7 8	19.3 11
1962	545.0 3	212.0 3	103.0 6	63.9 6	48.8 4	38.3 3	31.0 11	27.3 9	24.7 10	19.7 8
1963	382.0 7	141.0 14	71.6 21	39.2 22	31.9 22	26.2 21	22.8 21	21.7 20	21.8 15	18.3 14
1964	312.0 11	134.0 15	62.5 25	38.2 25	31.8 23	24.8 23	22.0 23	22.6 19	20.6 20	16.1 23
MEAN	319.629	153.433	86.626	54.200	39.281	31.255	27.585	25.233	22.837	18.293
VARIANCE	14089.289	2499.999	480.166	165.394	63.821	32.539	28.077	21.706	13.465	7.256
STD DEV	118.698	50.000	21.913	12.861	7.989	5.704	5.299	4.659	3.670	2.694
SKENNESS	1.355	1.410	.822	.160	-.012	-.141	-.137	-.038	-.001	-.294
SE OF SKEW	.448	.448	.448	.448	.448	.448	.448	.448	.448	.448
SER CORR	-.083	-.051	.005	-.098	-.229	-.115	.002	-.050	-.080	.018
C OF VAR	.371	.326	.253	.237	.203	.183	.192	.185	.161	.147

LOGS

MEAN OF	2.480	2.167	1.925	1.722	1.585	1.488	1.433	1.395	1.353	1.257
VAR OF	.021	.017	.011	.011	.009	.007	.008	.007	.005	.004
STD DEV OF	.145	.129	.107	.107	.093	.082	.087	.083	.071	.067
SKEW OF	.682	.578	.144	-.302	-.584	-.409	-.413	-.360	-.287	-.704
SE OF SKEW OF	.448	.448	.448	.448	.448	.448	.448	.448	.448	.448
SER CORR OF	-.063	-.003	-.024	-.124	-.236	-.134	-.023	-.048	-.071	.010
C OF VAR OF	.058	.059	.056	.062	.058	.055	.061	.059	.053	.053

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	164.573	83.670	48.689	28.227	21.415	18.699	16.019	15.152	14.870	11.704
1.05	187.428	95.083	56.679	34.508	26.231	22.047	19.066	17.804	16.993	13.668
1.11	203.256	102.731	61.594	38.220	28.971	23.943	20.803	19.312	18.188	14.732
1.25	226.858	113.844	68.259	43.055	32.418	26.332	23.000	21.220	19.692	16.019
2.00	290.757	142.641	83.612	53.345	39.263	31.132	27.447	25.090	22.725	18.419
5.00	393.118	186.078	103.278	64.950	46.180	36.141	32.123	29.190	25.934	20.645
10.00	470.739	217.451	115.728	71.504	49.716	38.799	34.618	31.398	27.669	21.708
25.00	580.677	260.167	131.000	78.830	53.364	41.637	37.288	33.782	29.552	22.750
50.00	671.659	294.297	142.126	83.732	55.631	43.461	39.009	35.331	30.784	23.369
100.00	770.847	330.467	153.086	88.245	57.598	45.089	40.547	36.726	31.899	23.887

STATISTICS OF MONTHLY MEANS, 1938-1964

STATISTICS OF LOGS OF MONTHLY MEANS, 1938-1964

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	13.18	7.377	1.727	.5599	6.004	.084	1.068	.2058	.7234	.1926	7.302	.021
NOV	16.67	6.983	.1941	.4190	7.594	.115	1.179	.2055	-.6198	.1742	8.062	.196
DEC	15.42	6.341	.2548	.4112	7.026	.127	1.149	.1936	-.3485	.1685	7.855	.217
JAN	16.49	7.089	.7542	.4298	7.514	.450	1.178	.1927	-.2859	.1636	8.051	.387
FEB	19.03	6.489	.4114	.3410	8.672	.214	1.253	.1616	-.7330	.1290	8.563	.329
MAR	23.36	7.130	.5677	.3052	10.65	.267	1.349	.1315	.0702	.0975	9.224	.333
APR	23.59	9.268	.2665	.3930	10.75	.572	1.338	.1819	-.2489	.1359	9.144	.523
MAY	20.25	7.698	.8746	.3801	9.228	.212	1.278	.1579	.3050	.1236	8.737	.254
JUN	17.81	6.254	.8459	.3512	8.114	.544	1.226	.1507	-.0703	.1230	8.378	.387
JUL	19.34	8.556	1.285	.4425	8.811	.456	1.248	.1873	-.0930	.1501	8.531	.445
AUG	18.44	8.760	1.630	.4752	8.400	-.006	1.225	.1877	.2207	.1532	8.376	-.006
SEP	15.90	9.267	1.166	.5829	7.244	.108	1.138	.2356	.3421	.2071	7.777	.246

1-3930.00 ELIZABETH RIVER AT IRVINGTON, N. J.

Location.--Lat 40°44'10", long 74°13'46", 135 ft downstream from Valley Avenue Bridge.

Drainage area.--2.91 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS DAYS	
1931								7	25	50	70	73	34	39	13	9	11	6	3	12	4	3	3	2		1										1358.3
1932								12	39	76	58	74	28	17	9	6	14	6	5	6	5	3	2	2	2	1	1									1471.7
1933								11	14	9	34	103	53	44	16	12	11	6	3	7	8	6	6	8	5	3	1	3			1	1				2775.1
1934								15	19	57	92	58	39	23	8	5	11	6	7	4	4	6	4	3	2	1				1						2714.9
1935								2	6	16	20	34	70	101	35	23	12	10	8	6	7	5	3	1	2	2	1	1								1203.5
1936																																				1857.1
1937																																				1802.4
1938																																				2692.7

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2922	100.0	9	1.30	222	2613	89.4	18	9.9	45	289	9.9	27	79	5	11	.3					
1	0.10	4	2922	100.0	10	1.60	346	2391	81.8	19	12.0	61	244	8.4	28	99	1	6	.2					
2	0.20	6	2918	99.9	11	2.00	655	2045	70.0	20	16.0	37	183	6.3	29	122	3	5	.1					
3	0.30	5	2912	99.7	12	2.50	414	1390	47.6	21	20.0	31	146	5.0	30	160	1	2	.0					
4	0.40	5	2907	99.5	13	3.10	307	976	33.4	22	25.0	36	115	3.9	31	200	1	1	.0					
5	0.50	6	2902	99.3	14	4.00	136	669	22.9	23	31.0	28	79	2.7	32									
6	0.60	12	2896	99.1	15	5.00	81	533	18.2	24	39.0	18	51	1.7	33									
7	0.70	74	2884	98.7	16	6.30	91	452	15.5	25	50.0	11	33	1.1	34									
8	1.00	197	2810	96.2	17	7.90	72	361	12.4	26	62.0	11	22	0.8										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

ELIZABETH RIVER AT IRVINGTON, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1931	1.0 5	1.0 5	1.0 4	1.3 3	1.4 3	1.7 1	1.8 1	1.9 1	2.4 1	3.8 1
1932	0.7 3	0.7 3	0.9 3	1.5 5	1.8 4	2.2 4	2.7 4	3.5 6	3.6 7	5.1 4
1933	1.0 6	1.1 6	1.3 6	1.7 6	1.8 5	2.3 5	2.7 5	3.3 5	3.6 4	6.5 7
1934	0.8 4	1.0 4	1.2 5	1.4 4	2.6 6	3.1 6	3.2 6	3.2 4	3.0 6	5.5 6
1935	0.1 1	0.1 1	0.2 1	0.3 1	0.7 1	2.1 2	2.3 2	2.9 2	2.9 2	4.0 2
1936	0.3 2	0.3 2	0.7 2	1.0 2	1.2 2	2.1 3	2.5 3	3.1 3	3.7 5	5.0 3
1937	1.1 7	1.3 7	1.5 7	1.9 7	2.6 7	3.8 7	4.7 7	4.6 7	4.9 7	5.4 5

MEAN	.714	.786	.971	1.300	1.729	2.471	2.843	3.214	3.571	5.043
VARIANCE	.145	.195	.186	.277	.496	.522	.853	.641	.619	.850
STD DEV	.380	.441	.431	.526	.704	.723	.924	.801	.787	.922
SKEWNESS	-.840	-.681	-.829	-1.183	.035	1.240	1.514	.174	.226	.054
SE OF SKEW	.794	.794	.794	.794	.794	.794	.794	.794	.794	.794
SER CORR	.055	-.061	-.068	.098	-.296	-.167	-.099	-.097	.054	.076
C OF VAR	.533	.562	.444	.405	.407	.292	.325	.249	.220	.183

LOGS

MEAN OF	-.248	-.217	-.076	.060	.202	.379	.436	.495	.544	.696
VAR OF	.147	.163	.087	.074	.040	.014	.017	.013	.010	.007
STD DEV OF	.383	.404	.296	.272	.201	.118	.129	.115	.098	.081
SKEW OF	-1.614	-1.528	-1.945	-2.097	-.794	.847	.757	-.806	-.395	-.306
SE OF SKEW OF	.794	.794	.794	.794	.794	.794	.794	.794	.794	.794
SER CORR OF	.108	.047	-.068	.025	-.213	-.121	-.077	-.118	.015	.051
C OF VAR OF	-1.546	-1.859	-3.903	4.507	.996	.311	.296	.232	.181	.116

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	.028	.027	.074	.116	.419	1.509	1.616	1.453	1.936	3.088
20.00	.100	.098	.216	.328	.680	1.649	1.799	1.921	2.353	3.600
10.00	.175	.175	.345	.511	.857	1.748	1.927	2.194	2.595	3.891
5.00	.312	.320	.551	.793	1.109	1.897	2.117	2.543	2.906	4.261
2.00	.709	.761	1.030	1.403	1.690	2.302	2.632	3.236	3.548	5.017
1.25	1.161	1.304	1.432	1.856	2.363	2.950	3.450	3.917	4.242	5.827
1.11	1.354	1.554	1.559	1.982	2.728	3.436	4.064	4.250	4.620	6.269
1.04	1.504	1.760	1.637	2.050	3.111	4.117	4.926	4.577	5.030	6.751
1.02	1.571	1.857	1.664	2.071	3.348	4.675	5.634	4.771	5.297	7.067
1.01	1.613	1.921	1.678	2.080	3.552	5.278	6.401	4.932	5.538	7.354

1-3930.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ELIZABETH RIVER AT IRVINGTON, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1931	53.0 8	20.7 8	11.2 8	7.9 7	6.5 7	5.4 7	5.1 7	5.0 7	4.7 7	3.7 7
1932	73.0 6	43.1 5	22.5 5	13.2 5	10.2 5	7.1 5	5.9 6	5.9 6	5.2 6	3.8 6
1933	197.0 2	104.0 1	47.1 2	27.3 2	20.9 1	13.0 2	10.6 2	10.0 2	9.4 2	7.6 1
1934	155.0 3	56.3 3	31.0 3	19.6 3	12.5 4	8.2 4	7.6 4	7.5 4	7.2 3	5.5 3
1935	68.0 7	29.0 7	13.8 7	7.2 8	5.4 8	4.6 8	4.2 8	3.9 8	3.8 8	2.5 8
1936	108.0 4	44.0 4	24.5 4	17.1 4	14.7 3	10.2 3	8.4 3	8.7 3	7.2 4	5.1 5
1937	81.0 5	30.9 6	18.3 6	12.1 6	9.6 6	6.8 6	6.4 5	6.3 5	6.1 5	5.2 4
1938	230.0 1	98.3 2	54.3 1	30.3 1	20.1 2	14.3 1	13.2 1	11.9 1	9.7 1	7.4 2

MEAN	120.625	53.287	27.837	16.837	12.487	8.700	7.675	7.400	6.662	5.225
VARIANCE	4331.125	992.860	240.822	72.405	33.324	12.317	9.014	7.169	4.543	2.542
STD DEV	65.811	31.510	15.518	8.509	5.773	3.510	3.002	2.677	2.131	1.594
SKEWNESS	.780	.972	.881	.570	.436	.628	.896	.491	.286	.570
SE OF SKEW	.752	.752	.752	.752	.752	.752	.752	.752	.752	.752
SER CORR	-.084	-.091	-.098	-.152	-.240	-.307	-.228	-.285	-.162	-.029
C OF VAR	.546	.591	.557	.505	.462	.403	.391	.362	.320	.305

LOGS

MEAN OF	2.026	1.663	1.387	1.175	1.053	.909	.857	.844	.803	.701
VAR OF	.054	.062	.058	.053	.045	.031	.027	.026	.020	.017
STD DEV OF	.233	.249	.241	.229	.213	.175	.165	.161	.143	.131
SKEW OF	.314	.314	.158	-.096	-.216	.128	.269	-.115	-.181	.234
SE OF SKEW OF	.752	.752	.752	.752	.752	.752	.752	.752	.752	.752
SER CORR OF	-.036	-.067	-.079	-.169	-.232	-.291	-.223	-.277	-.168	-.000
C OF VAR OF	.115	.150	.174	.195	.202	.192	.192	.190	.178	.186

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	34.510	13.878	7.157	4.219	3.349	3.303	3.214	2.863	2.829	2.628
1.05	46.181	18.940	10.040	6.188	4.906	4.246	3.978	3.755	3.638	3.126
1.11	54.474	22.591	12.090	7.565	5.972	4.869	4.484	4.327	4.145	3.444
1.25	67.163	28.249	15.217	9.620	7.527	5.765	5.212	5.125	4.835	3.887
2.00	103.246	44.699	23.998	15.094	11.498	8.037	7.079	7.028	6.423	4.962
5.00	165.160	73.793	38.636	23.402	17.129	11.341	9.848	9.544	8.415	6.440
10.00	214.595	97.578	49.974	29.291	20.893	13.644	11.819	11.154	9.637	7.431
25.00	287.305	133.216	66.176	37.080	25.637	16.680	14.465	13.134	11.091	8.701
50.00	349.337	164.110	79.620	43.097	29.145	19.030	16.552	14.572	12.118	9.662
100.00	418.475	198.976	94.256	49.276	32.624	21.456	18.738	15.983	13.104	10.638

STATISTICS OF MONTHLY MEANS, 1931-1938

STATISTICS OF LOGS OF MONTHLY MEANS, 1931-1938

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	3.668	1.485	.0016	.4050	5.843	.148	.5288	.1951	-.5177	.3690	6.699	.253
NOV	4.567	4.132	2.019	.9047	7.276	.553	.5370	.3357	.6203	.6252	6.803	.471
DEC	3.297	1.311	1.937	.3976	5.252	-.173	.4938	.1484	1.111	.3005	6.256	-.173
JAN	5.005	1.552	.4873	.3101	7.974	.634	.6812	.1344	.1263	.1972	8.631	.477
FEB	3.715	.9885	-.9207	.2651	5.918	-.213	.5536	.1339	-1.208	.2420	7.014	-.302
MAR	6.608	2.900	.9555	.4388	10.53	-.635	.7850	.1856	.2367	.2364	9.945	-.613
APR	5.972	1.761	-.3331	.2949	9.513	.390	.7568	.1448	-1.064	.1914	9.588	.455
MAY	4.940	1.962	.6641	.3973	7.869	.610	.6628	.1782	-.2884	.2689	8.397	.772
JUN	6.865	2.367	.6351	.3448	10.94	.277	.8145	.1484	-.1241	.1822	10.32	.502
JUL	5.837	4.665	2.653	.7992	9.299	.618	.6938	.2347	2.137	.3382	8.790	.539
AUG	5.163	2.692	1.047	.5213	8.226	.234	.6615	.2298	-1.755	.3474	8.380	.321
SEP	7.134	5.549	.5955	.7779	11.37	.632	.7245	.3645	.2166	.5030	9.179	.525

1-3935.00 ELIZABETH RIVER AT ELIZABETH, N. J.

Location.--Lat 40°40'03", long 74°13'09", 85 ft upstream from Westfield Avenue Bridge.

Drainage area.--20.2 sq mi., of which 2.2 sq mi. contributes to a storm sewer which bypasses the station.

Remarks.--Occasional regulation; probably not significant. Diversion from wells significant at all flows. Diversion from river prior to 1929 also significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																			CFS DAYS	
1922	9	1	5		3		18	7	37	6	46	47	15	28	27	27	14	34	7	4	5	2	7	5	4	2	5									6987.2	
1923	59	2		1	3	4	9	2	18	23	14	27	63	25	44	19	15	16	8	5	1	1		2	2	1	1									3712.1	
1924	20	1			2		4	3	4	6	9	23	25	28	19	49	35	29	30	19	23	9	6	8	3	7	1	1	1	1					8500.4		
1925	28	5	2		5	1	9	6	8	41	12	24	33	46	21	32	18	19	8	12	8	12	4	5	1	2	1	2							5135.4		
1926	1				1		2	2	9	4	14	17	20	54	43	37	34	35	32	17	12	8	8	4	3	1	4	3							7437.2		
1927						2					1		8	16	45	74	42	46	49	23	18	11	8	6	4	5	1	3			2	1			10737.0		
1928													8	20	48	53	67	56	36	20	10	14	12	7	5	5	2	2					1		12894.7		
1929							1		8		13	28	77	38	34	24	36	33	22	15	12	3	10	4	5	5	2								7760.0		
1930		3			1					18	12	30	16	19	13	68	57	46	21	26	7	4	3	7	5	6	1	1	1						5810.5		
1931		1			3		1		2	16	12	24	41	43	52	60	16	20	20	16	8	11	5	4	5	3	2								6207.8		
1932									7	9	12	20	33	15	52	41	12	15	13	8	8	10	4	4	1	1					1				4727.8		
1933		2	4	1		1		2	9	3	4	8	21	9	36	59	38	64	25	20	12	12	11	5	6	5	4	1	1			2			10500.5		
1934					1	3	3		2	1	2	3	10	14	53	61	61	35	39	24	13	10	7	7	5	6	2	2							7160.0		
1935					4	2		2		5	2	1	12	54	72	57	51	35	19	8	5	13	14	3	1	3	2									5045.0	
1936							1	2	2		23	48	79	48	38	21	17	22	17	11	12	9	3	6	3	2	2									7272.8	
1937							10	1		3		24	59	31	81	39	27	23	12	13	11	10	10	4	6	1									7840.0		
1938								1	5	4		3	33	64	89	39	34	22	18	13	13	7	7	2	4	5							1	1		9823.6	
1939							4	5	3	1	2	1	16	37	63	68	39	34	28	16	14	6	10	6	4	5	1	2								8031.5	
1940							8	5	1	4	2	16	52	46	44	51	26	26	23	13	11	6	7	6	9	6	3							1		8367.3	
1941						3		1			8	23	41	86	81	28	29	13	5	11	16	5	7	5		1	1	1								6244.4	
1942							1			1	13	38	45	82	57	24	21	14	11	13	9	9	11	3	8	4								1		8000.8	
1943								1	1			16	56	108	59	31	25	13	17	14	5	10	3	3	1	2										8150.4	
1944												5	36	63	91	36	42	19	19	10	12	10	6	2	6	1	3	1	2	2						11153.7	
1945							2			1		12	57	78	42	55	30	20	20	16	9	8	5	6	1	1	1	1								10070.3	
1946							1	1	1	2		3	44	110	45	47	30	19	14	13	13	8	6	3	3			1	1							9624.2	
1947							1	3	2	2		6	61	102	54	47	28	17	15	11	8	4	1	2	1											7037.7	
1948							1				1	4	18	55	52	73	37	33	27	18	17	12	7	1	5	1	3									12872.0	
1949									1			3	11	53	90	39	57	36	20	11	14	14	8	1	2	2	3									9000.6	
1950												9	53	103	81	22	32	21	9	8	12	5	4	1	2	2	1									6301.6	
1951								1			2	2	23	62	78	53	46	20	22	20	5	9	9	6	3	2	1							1		9151.9	
1952												5	25	70	65	65	31	27	9	21	11	15	10	3	2	4	2								1	12909.7	
1953												1	4	11	43	82	47	50	36	16	25	16	8	6	5	5	6	2	1					1		11200.4	
1954													21	81	123	39	31	24	9	4	8	7	3	5	6	2	1								1	8224.6	
1955													13	73	113	47	30	22	16	14	12	10	4	2	2	1	3	1						1	1	9743.4	
1956									2			1	12	38	82	76	53	32	19	14	13	6	5	6	5	1										8642.4	
1957												2	30	100	94	55	18	11	18	12	9	2	4	5	3	2										8734.8	
1958													11	37	64	67	51	32	20	22	14	13	12	8	7	1	3	3								11867.6	
1959													7	31	100	97	37	28	18	12	6	9	3	3	6	4							1	2	1	10250.4	
1960														11	83	90	70	32	17	10	14	9	10	6	8	2									1	11648.0	
1961														13	39	89	65	40	34	20	18	11	12	5	6	4	2	5	1	1						10910.4	
1962														4	40	123	80	34	21	7	11	15	10	6	3	5	2	3						1		9238.5	
1963													1	6	34	65	118	37	24	27	10	13	7	6	2	2	2	2	1					1		8027.5	
1964													2	29	86	111	46	24	15	9	10	3	10	6	7	4	2	1							1	8325.5	
1965														7	27	109	91	55	16	9	17	8	6	4	6	3	3	3								6866.6	
1966														1	16	78	101	55	28	19	17	10	6	10	6	3	5	3	1						3	2	9620.8
1967															35	83	78	65	23	16	16	14	8	4	5	4	7	3	1	1	2					12249.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	119	16801	100.0	9	1.60	177	16428	97.8	18	20.0	1166	4253	25.3	27	250	67	137	.8
1	0.10	17	16682	99.3	10	2.20	143	16251	96.7	19	27.0	719	3087	18.4	28	330	31	70	.4
2	0.20	8	16665	99.2	11	2.90	296	16108	95.9	20	35.0	598	2368	14.1	29	430	17	39	.2
3	0.30	6	16657	99.1	12	3.80	629	15812	94.1	21	46.0	495	1770	10.5	30	570	15	22	.1
4	0.40	21	16651	99.1	13	5.00	1383	15183	90.4	22	61.0	369	1275	7.6	31	760	5	7	.0
5	0.50	13	16630	99.0	14	6.60	2344	13800	82.1	23	81.0	291	906	5.4	32	1000	2	2	.0
6	0.70	33	16617	98.9	15	8.70	3419	11456	68.2	24	110.0	201	615	3.7	33				
7	0.90	69	16584	98.7	16	12.00	2063	8037	47.8	25	140.0	176	414	2.5	34				
8	1.20	87	16515	98.3	17	15.00	1721	5974	35.6	26	190.0	101	238	1.4					

1-3935.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

ELIZABETH RIVER AT ELIZABETH, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1922	0.0 1	0.0 1	0.4 4	1.7 4	2.3 2	4.0 2	5.4 3	5.8 3	8.5 3	21.0 16
1923	0.0 2	0.0 2	0.0 1	0.0 1	0.0 1	0.6 1	0.9 1	1.5 1	2.9 1	12.0 1
1924	0.0 3	0.2 6	1.7 9	2.4 7	3.3 4	4.9 4	5.8 4	5.7 2	8.9 4	22.7 21
1925	0.0 4	0.0 3	0.0 2	0.5 2	4.2 7	4.6 3	7.4 7	8.8 6	8.9 5	16.5 4
1926	0.7 13	1.2 16	2.5 13	3.2 9	4.4 8	5.3 6	7.2 6	11.3 13	17.4 23	19.7 17
1927	0.6 10	2.6 22	6.7 35	8.8 40	11.8 39	16.2 42	15.5 34	19.4 41	35.9 45	26.6 44
1928	1.0 22	3.3 23	3.7 14	4.9 15	6.8 15	8.5 13	9.5 11	11.6 15	16.5 21	27.3 32
1929	0.1 6	0.1 4	2.1 10	4.2 13	6.1 12	7.1 10	10.5 13	14.0 20	15.6 17	21.2 19
1930	0.1 7	0.6 9	1.2 7	1.6 3	3.3 5	6.1 9	6.8 5	7.8 5	9.5 6	14.3 2
1931	2.1 28	2.1 20	2.4 12	4.0 12	7.1 18	8.1 12	8.6 9	9.0 7	10.7 7	16.4 3
1932	0.9 17	1.1 15	1.7 8	3.0 8	4.2 6	5.0 5	5.1 2	6.5 4	8.2 2	18.3 9
1933	0.0 5	0.1 5	4.4 18	5.8 17	6.6 14	10.3 23	11.0 15	12.8 17	15.6 18	24.2 25
1934	0.3 8	0.4 8	0.4 3	1.8 5	6.5 13	8.9 15	11.5 18	11.3 14	15.3 16	18.9 10
1935	0.3 9	0.3 7	0.6 5	2.1 6	3.1 3	7.9 11	9.5 12	11.1 11	11.1 9	16.6 5
1936	0.9 19	0.9 12	2.3 11	4.5 14	6.0 11	9.2 16	11.6 19	13.2 18	14.4 11	20.8 15
1937	0.9 19	1.0 13	5.2 20	5.9 20	7.1 19	13.4 32	16.3 38	16.4 27	17.7 24	20.2 13
1938	1.4 24	2.3 21	5.6 26	7.6 33	8.3 27	12.4 30	16.6 39	17.2 32	23.0 35	20.0 11
1939	0.7 11	0.7 10	0.8 6	3.6 10	5.4 10	5.7 7	8.1 8	9.9 8	10.9 8	17.3 6
1940	0.8 14	1.1 14	4.2 17	6.0 21	8.9 31	13.9 36	15.0 29	16.2 26	16.7 22	24.3 26
1941	0.7 12	0.8 11	3.7 15	4.0 11	5.3 9	6.0 8	9.1 10	12.3 16	14.4 12	19.2 11
1942	1.0 20	5.9 36	6.7 36	8.1 39	12.2 40	13.8 35	15.6 35	15.5 34	22.6 34	26.0 28
1943	1.4 25	3.8 26	5.4 22	7.0 30	8.3 28	12.1 28	14.2 25	15.5 25	20.6 31	25.7 27
1944	4.1 34	4.9 31	5.6 23	5.8 18	7.7 21	11.3 25	15.9 36	16.6 28	23.5 36	27.8 33
1945	0.9 15	1.5 18	6.0 28	9.3 43	14.1 45	16.4 43	20.4 45	23.4 45	24.5 40	29.0 34
1946	1.0 21	1.3 17	6.6 33	6.7 29	9.2 32	9.3 17	11.7 20	13.2 19	15.0 14	21.5 19
1947	0.9 16	1.7 19	3.7 16	5.8 19	7.0 16	11.3 26	13.7 23	14.9 21	19.1 28	26.3 29
1948	2.0 27	7.4 45	8.7 45	10.9 44	13.0 42	13.5 33	14.4 26	15.0 23	24.1 39	35.4 43
1949	4.4 36	5.2 33	6.3 31	6.6 27	7.9 23	9.5 19	10.6 14	10.8 9	12.6 10	18.1 8
1950	1.2 23	4.4 27	5.6 24	6.1 22	10.6 36	12.9 31	15.4 32	16.9 29	18.5 27	23.5 24
1951	3.1 29	4.8 30	6.6 32	7.6 31	8.5 30	11.9 27	15.3 31	18.4 37	20.6 32	27.0 31
1952	5.0 38	6.6 41	7.8 42	8.0 37	8.2 25	10.8 24	17.0 41	19.6 42	25.2 41	36.9 45
1953	3.2 30	3.7 24	4.9 19	6.4 25	8.3 29	9.6 22	11.4 17	14.9 22	16.5 19	23.2 23
1954	5.0 39	8.0 37	7.7 37	7.9 34	9.5 34	12.4 29	15.5 33	18.0 35	19.6 29	23.0 22
1955	1.7 26	3.8 25	6.7 34	7.6 32	7.8 22	9.5 20	14.2 24	17.0 31	22.1 33	29.1 37
1956	4.0 33	6.0 38	7.7 40	8.0 35	10.2 35	15.2 39	16.0 37	18.1 36	18.1 25	22.5 20
1957	5.2 40	6.2 39	7.7 41	9.2 41	12.6 41	14.0 37	15.1 30	17.3 33	18.5 26	29.0 36
1958	5.9 43	6.2 40	7.2 38	8.1 38	13.7 44	16.4 44	18.6 43	19.9 43	26.1 42	28.8 35
1959	5.7 42	7.0 42	8.3 44	11.1 45	13.6 43	16.8 45	19.4 44	21.5 44	28.9 44	29.7 39
1960	5.4 41	5.7 35	6.0 29	6.3 24	9.2 33	15.0 38	14.5 27	16.9 30	23.9 38	29.9 40
1961	6.1 44	7.2 43	8.0 43	9.3 42	11.6 38	15.5 40	17.3 42	18.9 38	20.3 30	29.5 38
1962	6.1 45	7.3 44	7.6 39	8.0 36	11.0 37	16.1 41	16.7 40	19.2 40	23.7 37	26.3 30
1963	3.7 32	4.7 28	5.6 25	6.5 26	8.2 26	13.5 34	13.5 22	15.3 24	16.5 20	20.4 14
1964	4.7 37	5.5 34	6.3 30	6.7 28	7.5 20	8.7 14	11.1 16	11.3 12	14.6 13	21.1 17
1965	3.5 31	4.7 29	5.3 21	5.5 16	7.1 17	9.5 21	11.8 21	11.1 10	15.3 15	18.0 7
1966	4.3 35	5.0 32	5.9 27	6.2 23	8.0 24	9.3 18	14.6 28	18.9 39	28.2 43	31.3 42

	1†	3†	7†	14†	30†	60	90	120	183	ANNUAL
MEAN	2.525	3.460	4.953	6.007	8.084	10.498	12.562	14.264	17.793	23.898
VARIANCE	4.047	5.928	5.819	6.429	9.133	15.662	17.988	21.894	41.726	33.683
STD DEV	2.012	2.435	2.412	2.536	3.022	3.958	4.241	4.679	6.460	5.804
SKEWNESS	.493	.074	-.509	-.247	.194	-.284	-.552	-.552	.239	.299
SE OF SKEW	.374	.365	.361	.357	.357	.354	.354	.354	.354	.354
SER CORR	.729	.697	.597	.489	.424	.459	.534	.565	.409	.204
C OF VAR	.797	.704	.487	.422	.374	.377	.338	.328	.363	.243

LOGS

	.210	.341	.600	.720	.873	.974	1.060	1.119	1.216	1.365
MEAN OF	.210	.341	.600	.720	.873	.974	1.060	1.119	1.216	1.365
VAR OF	.225	.267	.125	.070	.034	.061	.051	.042	.036	.012
STD DEV OF	.474	.517	.354	.265	.185	.248	.226	.206	.191	.108
SKEW OF	-.746	-1.114	-1.597	-1.795	-1.805	-2.728	-2.904	-2.494	-1.485	-.305
SE OF SKEW OF	.374	.365	.361	.357	.357	.354	.354	.354	.354	.354
SER CORR OF	.680	.618	.547	.506	.481	.462	.502	.597	.511	.228
C OF VAR OF	2.263	1.516	.590	.368	.212	.254	.213	.184	.157	.079

† Zero flow values excluded in computation of statistics.

1-3935.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ELIZABETH RIVER AT ELIZABETH, N. J.

YEAR	1	3	7	15	30	60	90	120	180	ANNUAL
1922	300.0 37	288.0 14	260.0 4	196.0 2	107.0 2	59.2 8	45.6 10	39.5 12	32.8 18	18.9 37
1923	267.0 41	136.0 40	91.6 35	48.5 41	34.9 41	24.9 44	26.1 40	22.7 44	16.8 45	10.2 46
1924	441.0 24	216.0 23	133.0 23	79.2 26	56.6 22	50.8 15	44.9 12	39.7 11	34.3 10	23.2 24
1925	376.0 35	208.0 24	134.0 22	85.5 20	64.9 17	43.6 24	32.8 29	26.9 37	22.2 40	14.1 43
1926	270.0 40	184.0 33	104.0 28	80.1 25	55.2 25	37.3 28	28.9 37	28.1 34	24.5 36	20.4 33
1927	679.0 13	330.0 7	191.0 7	141.0 5	103.0 3	79.2 1	59.0 1	48.3 4	37.0 7	29.4 10
1928	591.0 17	285.0 15	163.0 12	106.0 12	70.3 13	51.8 13	44.5 14	38.8 16	36.5 8	26.2 2
1929	310.0 34	165.0 36	102.0 29	83.6 21	56.2 23	47.7 18	43.4 16	38.9 15	31.1 21	21.3 32
1930	232.0 38	107.0 44	55.6 46	38.3 45	30.1 45	24.7 45	22.7 45	21.5 45	20.0 43	15.0 42
1931	237.0 43	108.0 43	68.5 43	41.5 44	33.0 42	27.1 43	25.7 41	24.9 39	22.4 39	17.0 41
1932	343.0 28	144.0 39	83.9 40	53.1 36	42.4 37	28.9 41	23.6 43	22.8 42	18.6 44	12.0 45
1933	662.0 11	300.0 13	138.0 20	109.0 11	67.9 14	46.1 21	36.4 24	33.0 23	34.0 11	24.8 11
1934	388.0 27	187.0 31	98.3 32	63.6 33	41.1 39	34.8 34	32.7 30	28.8 31	24.1 37	19.6 35
1935	184.0 46	114.0 42	56.2 45	32.9 46	26.2 46	21.1 46	17.8 46	17.2 46	15.3 46	13.8 44
1936	313.0 33	134.0 41	80.1 41	64.7 32	53.8 27	41.6 25	33.6 27	32.6 27	28.3 28	10.9 34
1937	200.0 45	97.0 46	65.0 44	49.0 40	43.2 34	36.4 32	31.2 33	28.2 33	27.2 32	21.5 31
1938	1000.0 2	419.0 4	214.0 5	116.0 9	73.6 12	50.8 16	48.4 9	42.3 7	33.9 14	26.9 14
1939	301.0 36	136.0 39	98.1 33	64.9 31	51.2 29	44.2 23	40.8 20	35.1 21	30.2 24	22.0 30
1940	749.0 8	279.0 17	144.0 18	81.4 22	57.3 21	47.5 19	44.1 15	39.4 13	32.0 17	22.0 25
1941	338.0 29	186.0 32	87.1 38	46.4 42	32.8 43	30.0 39	25.6 42	23.9 41	21.7 41	18.8 38
1942	717.0 9	298.0 11	183.0 8	129.0 6	76.8 9	50.3 17	41.9 18	35.5 20	30.8 22	24.4 21
1943	287.0 39	160.0 37	84.3 39	61.8 34	48.5 32	33.7 36	31.1 34	29.4 29	27.5 31	22.3 28
1944	600.0 15	573.0 7	297.0 3	142.0 4	74.5 11	47.1 20	37.9 22	36.0 19	33.6 16	20.5 8
1945	466.0 21	227.0 19	156.0 15	87.0 17	51.6 28	36.8 31	37.3 23	33.6 24	30.6 23	27.6 13
1946	465.0 22	199.0 28	105.0 27	76.5 27	60.7 19	40.2 27	38.9 21	33.4 25	28.1 29	26.4 17
1947	220.0 44	121.0 45	69.8 42	44.4 43	36.4 40	32.2 37	30.0 35	27.9 35	24.7 35	19.3 36
1948	595.0 16	236.0 18	175.0 9	109.0 10	67.6 15	60.7 6	55.4 3	49.8 2	46.4 1	35.2 3
1949	329.0 31	220.0 20	136.0 21	96.1 14	75.5 10	55.2 10	45.0 11	42.2 8	35.1 9	24.9 20
1950	260.0 42	183.0 34	87.9 37	49.2 39	30.8 44	27.2 42	22.9 44	22.7 43	21.6 42	17.5 40
1951	529.0 20	197.0 29	92.0 34	58.5 35	42.6 36	41.0 26	35.4 26	33.4 26	31.2 20	25.1 19
1952	839.0 3	332.0 6	174.0 10	120.0 8	78.5 7	55.5 9	48.9 8	46.5 6	42.5 4	35.5 1
1953	698.0 10	320.0 8	192.0 6	124.0 7	90.1 5	69.6 2	57.8 2	52.8 1	45.7 2	30.7 7
1954	800.0 6	297.0 12	143.0 19	80.3 24	50.9 30	37.0 29	29.5 36	25.6 38	25.4 34	22.5 27
1955	822.0 4	541.0 3	323.0 2	200.0 1	110.0 1	63.9 4	50.4 5	41.6 10	34.0 12	26.7 15
1956	400.0 25	220.0 21	111.0 26	71.2 29	47.3 33	36.2 33	32.4 32	28.7 32	27.5 30	23.6 23
1957	329.0 32	200.0 27	120.0 24	67.3 30	48.8 31	37.0 30	32.6 31	29.7 28	29.2 25	23.9 22
1958	398.0 26	202.0 26	111.0 25	86.5 18	58.0 20	51.7 14	49.1 7	48.4 3	42.4 5	32.5 5
1959	609.0 14	282.0 16	161.0 13	85.5 19	78.0 8	52.4 12	41.2 19	36.6 17	32.2 19	28.1 12
1960	800.0 5	318.0 9	153.0 16	90.7 16	64.7 18	53.8 11	42.3 17	36.3 18	33.9 13	31.8 6
1961	545.0 19	206.0 25	153.0 17	92.6 15	66.3 16	59.4 7	49.6 6	41.9 9	39.8 4	29.9 9
1962	562.0 18	218.0 22	102.0 30	74.1 28	54.9 26	45.2 22	36.0 25	34.5 22	29.0 27	25.3 18
1963	455.0 23	169.0 35	88.0 36	51.0 38	42.9 35	33.0 38	27.7 38	27.3 36	27.1 33	22.0 29
1964	788.0 7	347.0 5	157.0 14	80.8 23	55.8 24	34.3 35	32.8 28	29.2 30	29.2 26	22.7 26
1965	332.0 30	196.0 30	100.0 31	52.5 37	41.8 38	29.2 40	26.7 39	24.8 40	22.4 38	18.8 39
1966	1800.0 1	781.0 1	344.0 1	190.0 3	103.0 4	62.6 5	44.6 13	39.0 14	33.7 15	26.4 16
1967	659.0 12	297.0 13	165.0 11	97.4 13	87.4 6	64.8 3	51.7 4	48.0 5	44.6 3	33.6 4
MEAN	508.587	246.587	138.052	86.915	59.667	44.319	37.759	34.098	30.261	23.915
VARIANCE	80903.000	16900.918	4371.008	1572.985	447.678	174.826	101.448	73.071	54.868	37.723
STD DEV	284.434	130.004	66.114	39.661	21.158	13.222	10.072	8.548	7.407	6.142
SKEWNESS	2.225	2.105	1.467	1.301	.699	.417	.183	.267	.246	.002
SE OF SKEW	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR	.022	-.001	-.028	-.097	-.025	.063	.028	.025	.101	.288
C OF VAR	.559	.527	.479	.456	.355	.298	.267	.251	.245	.257

STATISTICS

MEAN OF	2.653	2.345	2.098	1.899	1.749	1.627	1.561	1.519	1.468	1.363
VAR OF	.045	.039	.036	.034	.024	.018	.015	.012	.012	.015
STD DEV OF	.212	.197	.189	.185	.154	.133	.121	.112	.111	.121
SKEW OF	.364	.414	.336	.208	-.064	-.209	-.357	-.252	-.426	-.726
SE OF SKEW OF	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR OF	.065	.084	.061	-.033	.004	.060	.032	.010	.078	.275
C OF VAR OF	.080	.084	.090	.098	.088	.082	.077	.074	.075	.089

1-3935.00 ELIZABETH RIVER AT ELIZABETH, N. J.

STATISTICS OF MONTHLY MEANS, 1922-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1922-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR		MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	18.48	12.18	1.682	.6588	6.435	.327		1.185	.2792	-.5687	.2356	7.576	.382
NOV	22.13	14.10	1.384	.6370	7.707	.171		1.263	.2757	-.1255	.2183	8.075	.367
DEC	19.58	9.357	.4186	.4780	6.816	.158		1.239	.2226	-.2195	.1797	7.922	.363
JAN	21.31	10.92	1.318	.5124	7.421	.406		1.273	.2320	-.7329	.1822	8.143	.382
FEB	26.28	10.62	.5946	.4042	9.149	-.047		1.383	.1862	-.4803	.1347	8.843	-.094
MAR	31.49	11.26	1.413	.3577	10.96	-.040		1.474	.1455	.2490	.0987	9.424	-.054
APR	27.78	13.21	.7127	.4755	9.672	.468		1.395	.2094	-.0086	.1501	8.922	.388
MAY	24.14	12.46	.9399	.5160	8.407	.376		1.326	.2303	-.2174	.1737	8.477	.434
JUN	20.74	9.809	1.378	.4729	7.222	.474		1.269	.2143	-.7066	.1688	8.117	.544
JUL	24.94	17.49	1.623	.7013	8.685	.443		1.306	.2855	-.0681	.2186	8.352	.560
AUG	25.71	21.48	2.100	.8356	8.952	.141		1.257	.4770	-2.915	.3796	8.035	.441
SEP	24.62	19.66	1.886	.7985	8.571	.226		1.269	.3421	-.3234	.2696	8.113	.564

1-3940.00 WEST BRANCH RAHWAY RIVER AT MILLBURN, N. J.

Location.--Lat 40°43'51", long 74°18'26", 100 ft upstream from Diamond Mill Pond Dam.

Drainage area.--7.1 sq mi.

Remarks.--Regulation reduces flood peaks. Diversions very significant at all flows.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1940										68	14																										2282.4
1941													13	52	34	27	40	23	8	75	46	9	12	9	11	2	1	1								1917.9	
1942		2				5		5	7	15	37	43	24	43	32	58	8	14	16	7	10	6	10	6	2	4	4	2	4				1			2900.3	
1943													4	14	13	29	54	36	65	24	32	20	18	12	10	11	11	3	4	2	2			1			2644.3
1944													1	14	31	31	31	44	32	17	33	19	20	24	19	17	5	9	7	2	2	4	2	2			2498.3
1945					1	1				9	6	9	20	18	43	39	33	38	15	23	24	15	14	6	16	5	7	10	8	2	1				2		4127.1
1946													1	14	15	24	34	55	75	20	23	23	12	20	15	10	8	5	4	3				3	1		3118.1
1947		2	1		8	23		15	6	22	39	22	49	31	21	40	15	14	16	9	6	7	7	1	7	1	1	1	1	1						1642.7	
1948										2	7	14	16	26	31	34	53	16	31	30	16	19	17	18	6	11	9	2	4	3	1					4090.9	
1949					5	9		23	35	32	37	22	15	30	17	30	10	21	23	11	9	10	8	3	4	4	3	2				2				2327.8	
1950	24	24		26		21		13	17	7	14	25	49	34	28	32	12	10	14	7						4	2	1	1							678.0	

CFS_DAYS
2282.4

1917.9

2900.3

2644.3

2498.3

4127.7

3118.1

1642.7

4090.9

2327.8

678.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	28	4018	100.0	9	0.30	128	3631	90.4	18	5.5	246	934	23.2	27	94	18	43	1.0
1	0.01	25	3990	99.3	10	0.40	250	3503	87.2	19	7.5	135	688	17.1	28	130	16	25	.6
2	0.02	0	3965	98.7	11	0.60	269	3253	81.0	20	10.0	134	553	13.8	29	180	6	9	.2
3	0.03	40	3565	98.7	12	0.80	355	2984	74.3	21	14.0	96	419	10.4	30	240	1	3	.0
4	0.04	0	3925	97.7	13	1.10	402	2629	65.4	22	19.0	108	323	8.0	31	330	2	2	.0
5	0.06	59	3925	97.7	14	1.60	338	2227	55.4	23	27.0	54	215	5.4	32				
6	0.09	0	3866	96.2	15	2.10	497	1889	47.0	24	36.0	46	161	4.0	33				
7	0.10	134	3866	96.2	16	2.90	175	1392	34.6	25	50.0	43	115	2.9	34				
8	0.20	101	3732	92.9	17	4.00	283	1217	30.3	26	69.0	29	72	1.8					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

WEST BRANCH RAHWAY RIVER AT MILLBURN, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	0.6 9	0.7 9	0.8 9	0.9 9	1.3 9	1.5 9	1.7 8	2.0 8	3.0 7	8.3 6
1941	0.0 1	0.0 1	0.1 3	0.1 3	0.3 4	0.6 4	0.7 3	0.9 4	1.0 3	4.5 2
1942	0.4 8	0.4 8	0.5 8	0.6 8	0.7 8	0.9 8	1.8 9	3.2 9	8.2 9	10.2 8
1943	0.1 5	0.3 6	0.3 6	0.3 6	0.5 5	0.8 7	0.9 6	1.0 5	2.4 6	6.3 4
1944	0.0 2	0.1 4	0.2 5	0.2 4	0.5 6	0.6 5	0.8 4	1.1 6	1.3 4	6.9 5
1945	0.8 10	1.0 10	1.1 10	1.1 10	2.1 10	3.5 10	8.0 10	9.6 10	9.8 10	12.2 10
1946	0.0 3	0.0 2	0.0 1	0.0 1	0.1 2	0.2 2	0.3 2	0.5 2	0.8 2	4.5 3
1947	0.3 7	0.3 7	0.4 7	0.5 7	0.6 7	0.7 6	0.9 7	1.8 7	3.9 8	6.5 7
1948	0.1 6	0.1 5	0.1 4	0.2 5	0.3 3	0.5 3	0.8 5	0.8 3	2.1 5	10.5 9
1949	0.0 4	0.0 3	0.0 2	0.0 2	0.0 1	0.0 1	0.0 1	0.1 1	0.2 1	2.2 1

1-3940.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30
WEST SPANCH RAHWAY RIVER AT MILLBURN, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	237.0 3	103.0 6	53.1 7	39.9 4	25.8 6	22.0 6	20.2 2	16.1 4	11.5 7	6.2
1941	134.0 10	66.0 10	36.6 10	24.6 9	19.9 8	15.3 8	12.8 10	11.4 9	9.2 9	5.3
1942	274.0 2	173.0 1	119.0 1	79.4 1	43.2 1	23.6 4	16.7 6	12.8 8	12.8 3	7.9
1943	190.0 7	108.0 4	60.4 5	30.4 8	18.9 10	14.7 10	14.6 8	13.7 6	11.9 5	7.2
1944	177.0 8	75.6 8	44.2 8	38.3 5	28.9 5	24.6 2	18.7 3	15.5 5	11.6 6	6.8
1945	414.0 1	163.0 2	110.0 2	62.1 2	36.7 2	22.1 5	18.7 4	16.2 3	15.7 2	11.3
1946	228.0 4	103.0 5	57.3 6	35.7 7	24.3 7	20.8 7	15.1 7	13.2 7	11.0 8	8.5
1947	136.0 9	67.9 9	40.6 9	21.8 10	19.3 9	14.9 9	13.7 9	11.1 10	8.2 10	4.5
1948	201.0 5	81.5 7	70.2 4	38.1 6	32.8 4	26.4 1	21.7 1	21.4 1	17.3 1	11.2
1949	191.0 6	113.0 3	73.5 3	46.4 3	34.9 3	24.2 3	18.6 5	17.3 2	12.1 4	6.4
1950	43.0 11	30.9 11	21.7 11	11.7 11	6.3 11	5.0 11	4.6 11	4.2 11	3.3 11	1.9
MEAN	202.273	98.627	62.418	38.945	26.454	19.418	15.945	13.900	11.327	7.01
VARIANCE	8718.012	1742.708	889.846	355.594	106.545	39.924	22.019	19.042	13.684	7.54
STD DEV	93.370	41.746	29.830	18.857	10.322	6.319	4.692	4.364	3.699	2.74
SKEWNESS	.788	.488	.868	.914	-.293	-1.242	-1.393	-.682	-.620	-.00
SE OF SKEW	.661	.661	.661	.661	.661	.661	.661	.661	.661	.66
SER CORR	-.098	-.278	-.364	-.372	-.487	-.480	-.289	-.198	-.230	-.14
C OF VAR	.462	.423	.478	.484	.390	.325	.294	.314	.327	.39

LOGS

MEAN OF	2.254	1.954	1.750	1.542	1.380	1.254	1.175	1.115	1.024	.80
VAR OF	.061	.043	.045	.051	.052	.042	.034	.034	.036	.04
STD DEV OF	.247	.206	.213	.225	.227	.206	.185	.183	.191	.21
SKEW OF	-1.503	-.870	-.244	-.580	-1.750	-2.235	-2.436	-2.102	-2.026	-1.50
SE OF SKEW OF	.661	.661	.661	.661	.661	.661	.661	.661	.661	.66
SER CORR OF	-.075	-.294	-.376	-.374	-.462	-.438	-.282	-.271	-.183	-.07
C OF VAR OF	.110	.106	.122	.146	.165	.164	.157	.164	.186	.26

STATISTICS OF MONTHLY MEANS, 1940-1950

STATISTICS OF LOGS OF MONTHLY MEANS, 1940-1950

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	1.753	1.510	1.209	.8612	2.079	.703	.0860	.4184	-.5637	4.867	1.368	.729
NOV	6.400	7.046	1.120	1.101	7.587	.347	.3268	.8781	-.7795	2.687	5.202	.609
DEC	5.838	6.724	1.045	1.152	6.920	.370	.2612	.8689	-.4683	3.326	4.159	.672
JAN	6.108	7.444	2.397	1.219	7.241	.441	.4616	.6912	-1.328	1.497	7.348	.787
FEB	8.400	6.446	.1302	.7675	9.958	.272	.7104	.5361	-.7648	.7546	11.31	.537
MAR	14.32	6.461	.6421	.4513	16.97	.254	1.114	.2046	-.2444	.1836	17.73	.339
APR	11.21	7.450	.4068	.6647	13.29	.454	.9276	.3805	-.7541	.4102	14.77	.479
MAY	10.78	7.796	.4738	.7233	12.78	.209	.8960	.3908	-.3746	.4362	14.26	.082
JUN	5.153	5.196	1.491	1.008	6.108	.753	.5204	.4321	.2349	.8303	8.284	.814
JUL	5.498	7.893	2.738	1.436	6.518	.270	.4700	.4870	.4788	1.036	7.482	.712
AUG	5.772	11.67	3.051	2.021	6.842	.087	.3130	.5766	1.106	1.842	4.983	.575
SEP	3.132	5.064	2.812	1.617	3.713	.385	.1950	.4769	1.125	2.446	3.104	.742

1-3945.00 RAHWAY RIVER NEAR SPRINGFIELD, N. J.

Location.--Lat 40°41'11", long 74°18'44", 50 ft downstream from bridge on U.S. Highway 22.

Drainage area.--25.5 sq mi.

Remarks.--Diversions from wells and river very significant at all flows.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS DAYS			
1939					3	7	17	20	18	23	36	22	34	34	22	12	23	21	22	9	8	8	6	6	5	5	2	1	1							10731.0		
1940				1	6	31	33	14	10	32	40	13	23	28	17	14	18	24	12	6	9	1	4	4	3	4	2									9322.7		
1941					1	4	13	21	17	39	32	17	26	56	34	17	20	12	15	7	10	5	7	8	1											7394.4		
1942				4	18	20	11	13	23	26	22	40	38	25	20	12	18	10	12	10	7	6	8	3	2	2	5	3	1	2	3	1				10510.9		
1943				4	16	12	5	11	14	15	28	29	55	38	25	20	16	25	13	7	8	9	2	3	3	1	3	2								9422.5		
1944				3	8	8	7	18	19	18	20	36	31	25	24	16	18	15	16	22	18	8	4	5	8	6	1	3	2	1	4	1	1			9438.3		
1945						15	20	6	2	14	30	31	41	38	23	26	21	12	17	12	9	10	5	4	10	5	5	2	3							12887.6		
1946						5	1	5	6	15	46	40	32	42	31	19	18	22	23	13	14	8	7													11688.6		
1947						5	6	21	52	45	36	37	22	28	14	13	20	19	11	5	9	5	2	7	2	1	1	3	1							6894.0		
1948						6	19	3	20	32	23	25	30	28	20	32	17	22	17	15	15	5	9	3	3	3	4	1	2	2						14477.1		
1949						1	11	17	11	21	46	46	17	16	14	17	27	20	25	17	14	14	8	5	3	2	4	2									8960.2	
1950						15	21	22	27	41	34	36	26	32	20	22	14	9	8	4	12	3	8	4	3												4500.3	
1951						3	9	13	30	24	21	16	18	26	25	29	18	30	24	21	15	5	7	10	6	1	1	5	3	1	3	1				10740.0		
1952						1	2	5	7	24	21	22	28	25	39	28	29	29	20	13	16	9	10	6	11	4	3	6								15875.3		
1953						4	18	6	24	36	30	19	17	20	21	25	22	24	16	18	7	7	12	7	5	6	2	7	5	1	4	1				12409.3		
1954						3	16	49	35	38	47	38	24	29	12	20	11	2	7	4	6	3	4	6	1	1	1	1									4475.1	
1955						1	11	21	30	35	43	23	33	31	32	20	20	13	4	12	8	6	7	3	1	4	1	1	1	1	1	1					7998.0	
1956										10	37	60	30	27	16	39	23	24	19	19	10	5	9	12	7	2	5	3	5	2	2						8890.7	
1957						4	7	12	23	17	28	20	28	28	35	14	31	24	16	24	9	9	4	8	6	9	2	2	2								6729.3	
1958						1	2	2	14	19	9	12	17	40	17	27	16	25	19	21	14	18	16	14	7	14	13	3	7	2	6	1	4	1	2	1	1	12596.1
1959										1	15	44	69	48	43	17	32	18	14	10	5	13	7	6	3	7	2	4									7786.0	
1960										16	20	29	40	19	28	40	30	29	26	18	18	7	8	6	10	3	2	2	6	2	4	2						10038.1
1961										1	24	64	53	26	25	26	14	21	12	19	19	11	12	10	7	4	2	2	3	5	2	3					10272.6	
1962										6	16	30	48	33	36	45	19	15	14	21	12	13	11	15	3	4	5	5	2	3	3	2	1	1			7665.6	
1963						1	6	16	3	20	13	13	31	43	37	40	26	14	15	12	20	9	2	10	9	7	5	3	2	2							5046.9	
1964						3	8	37	8	18	18	20	20	16	25	16	27	10	26	20	11	13	8	11	11	6	7	6	4	2	5						6900.2	
1965						6	17	42	30	41	28	29	26	23	22	14	13	9	14	9	6	4	6	6	5	4	2	2	5	1							3663.7	
1966						17	33	50	27	16	19	21	22	33	19	17	11	8	11	5	9	6	7	12	5	3	2	3									5702.0	
1967						2	4	9	8	30	33	28	21	31	19	32	29	16	18	19	13	8	8	8	6	4	9	2	3	2	1						9672.6	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	27	10592	100.0	9	4.80	954	7894	74.5	18	32.00	443	1862	17.6	27	210	62	184	1.7
1	0.90	68	10565	99.7	10	6.00	822	6940	65.5	19	40.00	271	1419	13.4	28	260	36	122	1.1
2	1.10	159	10497	99.1	11	7.40	761	6118	57.8	20	49.00	226	1148	10.8	29	320	36	96	.8
3	1.40	111	10338	97.6	12	9.10	624	5357	50.6	21	60.00	209	922	8.7	30	400	22	50	.4
4	1.70	223	10227	96.6	13	11.00	819	4733	44.7	22	74.00	180	713	6.7	31	490	15	28	.2
5	2.10	389	10004	94.4	14	14.00	646	3914	37.0	23	92.00	97	533	5.0	32	610	7	13	.1
6	2.60	398	9615	90.8	15	17.00	501	3268	30.9	24	110.00	115	436	4.1	33	750	5	6	.0
7	3.20	587	9217	87.0	16	21.00	495	2767	26.1	25	140.00	61	321	3.0	34	930	1	1	
8	3.90	736	8630	81.5	17	26.00	410	2272	21.5	26	170.00	76	260	2.5					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

RAHWAY RIVER NEAR SPRINGFIELD, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	1.6 9	1.9 13	2.1 13	2.2 11	3.2 9	3.8 7	6.2 10	6.1 6	7.0 4	18.0 6
1940	4.3 27	4.6 27	4.7 27	4.8 24	6.4 24	9.8 24	12.2 25	12.8 21	14.9 18	29.9 32
1941	1.6 10	1.7 10	1.8 7	2.1 9	3.0 8	3.4 6	4.3 4	6.8 8	8.8 9	19.8 7
1942	2.7 19	3.7 25	4.4 26	6.9 27	8.3 27	8.9 22	11.4 23	16.1 27	28.4 27	33.7 25
1943	1.6 11	1.8 12	2.0 12	2.6 12	4.4 15	6.2 15	7.6 13	8.6 12	13.9 16	25.3 16
1944	0.9 5	1.0 5	1.1 5	1.2 4	2.8 7	4.5 10	7.6 14	8.7 14	11.1 10	25.1 13
1945	5.2 28	5.2 28	5.6 28	7.4 28	9.4 28	15.5 28	27.4 28	29.7 28	31.9 28	37.6 26
1946	2.3 17	2.4 16	2.6 16	3.2 16	4.3 14	4.7 12	5.9 9	6.5 7	8.6 7	19.7 9
1947	2.7 20	2.7 19	2.8 18	3.2 17	3.5 10	6.9 18	9.2 19	12.5 19	18.3 23	30.9 23
1948	3.7 26	4.0 26	4.1 25	5.1 26	6.1 23	6.3 16	6.7 12	7.0 9	15.3 17	30.0 27
1949	1.4 7	1.5 7	1.8 8	2.0 7	2.5 6	3.2 4	4.0 2	4.6 3	5.0 1	12.8 2
1950	1.8 15	2.1 14	2.3 14	2.9 14	5.1 20	5.6 14	8.8 18	10.0 17	12.1 13	25.7 18
1951	2.2 16	2.6 18	3.2 20	3.7 20	4.8 18	7.9 21	9.7 20	13.5 23	16.7 19	32.9 24
1952	3.2 24	3.4 24	3.5 22	3.7 21	4.1 12	5.3 13	9.9 21	14.0 26	19.9 24	42.4 28
1953	1.7 12	1.7 11	1.8 9	2.1 8	2.4 5	3.4 5	4.5 5	5.9 4	8.6 8	19.9 8
1954	1.5 8	1.6 8	1.8 10	1.9 6	3.9 11	4.4 8	6.3 11	8.6 13	11.9 11	17.5 5
1955	1.7 13	2.3 15	2.4 15	2.9 15	4.7 17	6.3 17	8.4 16	9.6 16	20.8 26	25.7 19
1956	2.7 21	2.9 20	3.0 19	3.3 18	5.1 19	11.4 26	12.3 26	13.0 22	13.7 15	20.0 10
1957	0.9 6	1.0 6	1.2 6	2.6 13	4.2 13	4.5 11	5.5 7	6.0 5	8.6 3	28.5 20
1958	2.5 18	2.5 17	2.7 17	4.1 22	7.0 26	9.7 23	11.9 24	12.5 20	16.7 20	25.1 14
1959	3.0 23	3.2 22	3.5 23	4.4 23	6.0 22	12.3 27	12.7 27	14.1 25	17.5 22	24.2 15
1960	3.3 25	3.4 23	4.0 24	5.0 25	6.8 25	10.0 25	10.7 22	14.0 24	20.0 25	28.7 21
1961	2.8 22	3.0 21	3.3 21	3.7 19	5.4 21	7.4 19	8.6 17	9.5 15	11.9 12	25.6 17
1962	1.7 14	1.7 9	1.9 11	2.2 10	4.6 16	7.4 20	8.3 15	10.1 18	12.6 14	20.6 11
1963	0.7 4	0.8 4	1.0 4	1.2 5	2.1 4	4.4 9	5.5 8	7.2 10	7.9 6	15.4 4
1964	0.6 2	0.7 2	0.9 3	1.0 2	1.2 1	1.7 1	2.8 1	3.2 1	4.6 2	14.2 3
1965	0.7 3	0.7 3	0.8 1	0.9 1	1.4 2	3.1 3	4.6 6	4.0 2	7.2 5	10.9 1
1966	0.4 1	0.6 1	0.9 2	1.2 3	2.1 3	2.6 2	4.2 3	7.3 11	16.9 21	22.7 12

1-3945.00 RAHWAY RIVER NEAR SPRINGFIELD, N. J.

LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	14	30	60	90	120	183	ANNUAL
MEAN	2.121	2.311	2.543	3.125	4.457	6.450	8.471	10.132	13.961	24.671
VARIANCE	1.346	1.453	1.594	2.747	4.035	10.783	21.912	27.758	42.544	62.738
STD DEV	1.160	1.205	1.262	1.657	2.009	3.284	4.681	5.269	6.523	7.921
SKEWNESS	.732	.556	.576	.921	.529	.955	2.491	1.908	.963	.392
SE OF SKEW	.441	.441	.441	.441	.441	.441	.441	.441	.441	.441
SER CORR	.075	.050	.047	.023	.091	.046	-.064	-.084	-.169	.047
C OF VAR	.547	.522	.496	.530	.451	.509	.553	.520	.467	.321

LOGS

MEAN OF	.254	.298	.349	.434	.601	.755	.879	.957	1.100	1.370
VAR OF	.074	.066	.055	.059	.048	.051	.042	.044	.042	.021
STD DEV OF	.272	.258	.235	.243	.219	.225	.205	.209	.205	.146
SKEW OF	-.634	-.524	-.366	-.302	-.639	-.178	.291	.031	-.122	-.369
SE OF SKEW OF	.441	.441	.441	.441	.441	.441	.441	.441	.441	.441
SER CORR OF	.358	.343	.299	.304	.355	.175	.057	.071	-.088	.107
C OF VAR OF	1.071	.864	.675	.559	.364	.298	.234	.218	.186	.106

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30.

RAHWAY RIVER NEAR SPRINGFIELD, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	332.0 26	222.0 22	150.0 18	105.0 14	83.3 10	73.4 6	68.9 5	58.2 5	49.4 5	29.4 8
1940	709.0 7	320.0 10	172.0 14	114.0 12	75.5 14	68.6 10	63.6 7	54.1 8	41.5 10	25.5 15
1941	400.0 23	225.0 19	111.0 27	68.8 25	53.1 22	46.9 18	39.0 20	35.4 21	29.5 21	20.3 20
1942	591.0 12	461.0 3	317.0 1	217.0 1	128.0 2	71.6 8	55.4 10	43.7 12	41.2 11	28.9 10
1943	430.0 20	285.0 17	165.0 16	87.3 19	56.7 20	46.0 20	45.0 16	41.6 14	38.2 13	25.8 14
1944	496.0 17	266.0 18	145.0 20	100.0 16	75.8 13	66.1 12	51.9 11	48.3 10	38.5 12	26.3 13
1945	940.0 1	404.0 6	253.0 4	136.0 6	83.2 11	54.3 15	51.1 12	45.0 11	44.2 7	35.3 3
1946	577.0 14	306.0 13	166.0 15	101.0 15	78.1 12	61.7 13	47.0 14	41.1 15	36.2 15	30.4 4
1947	312.0 27	187.0 28	113.0 26	64.5 26	52.9 23	46.9 19	41.7 18	36.3 20	29.8 20	19.2 22
1948	550.0 15	288.0 16	225.0 7	136.0 7	89.3 7	72.5 7	64.1 6	62.9 4	57.6 3	39.4 2
1949	678.0 8	402.0 7	239.0 6	154.0 5	114.0 3	80.6 3	62.7 8	57.5 6	42.6 9	24.5 16
1950	294.0 28	136.0 29	81.4 29	48.5 29	29.4 29	24.8 27	20.5 28	19.1 27	17.6 27	12.4 28
1951	480.0 19	315.0 12	192.0 11	115.0 11	75.3 15	69.1 9	57.6 9	51.6 9	45.3 6	20.4 9
1952	927.0 2	488.0 1	240.0 5	165.0 4	99.7 4	76.8 5	71.0 2	61.1 3	61.1 1	43.4 1
1953	856.0 5	413.0 5	268.0 2	183.0 2	133.0 1	100.0 1	82.0 1	73.2 1	60.5 2	34.5 4
1954	549.0 13	223.0 21	106.0 28	58.7 27	35.1 28	22.6 29	16.9 29	14.4 29	14.7 28	12.8 27
1955	872.0 4	420.0 4	260.0 3	165.0 3	88.4 8	48.1 16	35.6 23	28.9 23	27.2 23	21.6 18
1956	266.0 29	219.0 23	126.0 23	75.5 22	67.7 17	55.1 14	45.1 15	38.1 17	33.1 17	24.3 17
1957	413.0 22	291.0 15	163.0 17	90.2 17	60.7 18	43.6 22	36.0 22	31.4 22	28.3 22	18.4 24
1958	640.0 9	302.0 14	176.0 12	129.0 8	86.9 9	78.3 4	71.2 3	69.9 2	57.5 4	34.5 5
1959	520.0 16	202.0 27	132.0 22	69.9 24	43.7 26	29.7 25	24.4 25	22.8 26	22.6 25	20.0 21
1960	610.0 11	316.0 11	148.0 19	83.4 20	54.5 21	45.9 21	41.3 19	40.8 16	37.3 14	29.9 7
1961	389.0 24	219.0 24	196.0 9	127.0 9	94.7 5	88.9 2	71.1 4	56.8 7	43.3 8	28.1 11
1962	891.0 3	464.0 2	214.0 8	126.0 10	90.4 6	66.9 11	48.2 13	42.1 13	31.5 18	21.0 10
1963	384.0 25	205.0 26	119.0 24	74.7 23	50.6 24	35.3 24	28.0 24	25.6 24	23.8 24	16.3 25
1964	426.0 21	211.0 25	134.0 21	77.1 21	58.6 19	38.9 23	36.6 21	37.1 19	30.0 19	18.9 23
1965	491.0 18	224.0 20	116.0 25	57.2 28	40.2 27	24.5 28	20.6 27	16.9 28	14.4 29	10.0 29
1966	618.0 10	397.0 8	173.0 13	89.8 18	49.0 25	27.1 26	23.9 26	24.4 25	17.6 26	15.4 26
1967	802.0 6	388.0 9	194.0 10	106.0 13	72.5 16	47.4 17	44.1 17	37.9 18	35.0 16	26.5 12
MEAN	568.379	303.414	175.669	107.745	73.114	55.572	47.121	42.007	36.121	24.914
VARIANCE	39661.961	9237.227	3290.875	1687.736	674.575	426.455	314.163	247.419	171.212	65.697
STD DEV	199.153	96.110	57.366	41.082	25.973	20.651	17.725	15.730	13.085	8.105
SKEWNESS	.457	.358	.600	.825	.521	.130	.079	.145	.222	.239
SE OF SKEW	.434	.434	.434	.434	.434	.434	.434	.434	.434	.434
SER CORR	-.131	-.231	-.269	-.219	-.196	-.004	.058	.015	.104	.134
C OF VAR	.350	.317	.327	.381	.355	.372	.376	.374	.362	.325

LOGS

MEAN OF	2.728	2.460	2.222	2.003	1.836	1.712	1.639	1.589	1.527	1.372
VAR OF	.024	.020	.020	.027	.026	.032	.034	.033	.030	.023
STD DEV OF	.155	.141	.142	.163	.161	.179	.184	.183	.173	.153
SKEW OF	-.120	-.165	-.057	.060	-.335	-.545	-.643	-.686	-.600	-.591
SE OF SKEW OF	.434	.434	.434	.434	.434	.434	.434	.434	.434	.434
SER CORR OF	-.154	-.259	-.307	-.257	-.229	.007	.026	-.009	.092	.136
C OF VAR OF	.057	.057	.064	.081	.088	.104	.112	.115	.113	.111

1-3950.00 RAHWAY RIVER AT RAHWAY, N. J.
SUMMARY DURATION TABLE OF DAILY DISCHARGE

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
1	0.00	29	16801	100.0	9	1.90	217	15758	93.8	19	27.0	1591	6243	37.2	27	380	104	231	1.3
2	0.10	04	16772	99.8	10	2.40	326	15541	92.5	20	36.0	1277	4652	27.7	28	510	72	127	.7
3	0.20	116	16678	99.3	11	3.40	572	15215	90.6	21	49.0	914	3375	20.1	29	690	31	55	.3
4	0.30	08	16542	98.6	12	4.60	865	14643	87.2	22	65.0	701	2461	14.6	30	930	14	24	.1
5	0.40	141	16464	98.0	13	6.20	1089	13778	82.0	23	88.0	514	1760	10.5	31	1200	9	10	.0
6	0.50	98	16373	97.2	14	8.30	1173	12689	75.5	24	120.0	352	1246	7.4	32	1700	1	1	
7	0.60	161	16225	96.6	15	11.00	1708	11516	68.5	25	160.0	271	894	5.3	33				
8	1.10	112	16064	95.6	16	15.00	1718	9808	58.4	26	210.0	12	623	3.7	34				
9	1.47	194	15952	94.9	17	20.00	1847	8090	48.2		280.0	180	411	2.4					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

RAHWAY RIVER AT RAHWAY, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1922	2.0 20	3.0 22	3.6 22	4.2 22	7.2 26	8.6 19	8.6 13	10.2 10	18.0 16	48.5 31
1923	2.0 21	3.0 23	3.7 23	4.6 23	5.6 19	7.3 13	7.9 11	10.2 11	13.1 9	32.3 12
1924	5.0 34	7.3 38	8.9 39	9.4 37	9.9 32	12.4 26	15.1 26	15.9 22	21.5 22	60.1 41
1925	7.0 38	7.0 36	7.0 33	7.6 33	12.4 36	14.5 34	20.7 41	24.3 36	25.3 27	43.4 24
1926	6.0 35	6.7 34	7.7 37	8.3 34	12.7 37	14.3 33	16.7 30	21.1 32	32.6 36	45.9 28
1927	9.0 43	9.0 41	10.4 43	11.9 43	19.2 45	40.5 45	40.0 44	45.8 44	76.7 45	80.2 45
1928	10.0 44	13.3 45	14.1 45	16.3 45	17.6 44	18.6 41	20.3 37	24.6 37	36.5 40	59.6 39
1929	4.0 33	4.7 31	5.9 31	7.4 32	8.9 30	9.9 22	13.1 21	16.0 25	18.2 17	39.6 17
1930	3.0 27	3.0 24	3.7 24	4.8 24	5.0 16	7.4 15	8.9 14	10.2 12	11.7 7	25.0 5
1931	3.0 28	3.7 28	4.7 29	6.0 29	6.8 25	8.2 18	8.3 12	9.0 9	14.4 11	30.8 7
1932	3.0 29	3.0 25	3.0 19	3.4 18	4.1 12	5.3 10	5.1 4	7.0 6	11.2 6	42.5 21
1933	7.0 39	7.7 39	8.3 38	10.0 39	15.4 42	17.6 38	20.5 39	29.9 42	36.1 39	51.2 35
1934	6.0 36	6.7 35	7.0 34	8.9 36	9.7 31	13.2 29	20.7 40	26.7 39	33.0 37	46.0 29
1935	3.8 31	6.1 33	6.4 32	7.0 31	7.9 27	13.4 30	14.0 22	14.8 21	16.2 14	39.9 18
1936	8.2 41	8.7 40	9.0 40	9.7 38	14.0 40	18.0 39	19.8 36	22.6 34	27.2 30	30.8 33
1937	7.7 40	9.3 42	10.2 41	11.7 42	13.1 39	22.2 42	27.2 42	27.5 41	30.6 33	45.5 27
1938	10.0 45	10.3 44	11.3 44	11.5 41	14.4 41	22.9 43	35.4 43	40.3 43	52.3 44	72.9 44
1939	2.6 24	2.9 21	3.2 20	3.9 21	6.0 22	6.7 11	10.7 17	10.6 13	12.1 8	31.2 8
1940	6.7 37	7.3 37	7.5 36	8.5 35	11.8 34	17.0 37	19.5 35	20.7 31	25.7 28	51.2 34
1941	1.5 16	1.7 16	1.8 16	2.2 13	3.4 10	4.4 9	7.6 10	11.0 14	14.6 12	31.8 11
1942	4.0 32	4.6 30	7.1 35	10.9 40	12.9 38	14.0 31	17.7 33	24.3 35	48.3 42	55.9 38
1943	1.6 17	1.7 17	2.0 17	3.5 19	6.2 23	10.8 24	11.4 19	13.3 18	23.9 24	44.4 26
1944	1.2 14	1.3 14	1.3 14	1.4 10	3.2 9	7.5 16	10.8 18	13.3 19	20.0 19	42.8 22
1945	8.5 42	9.9 43	10.2 42	12.1 44	17.6 43	27.0 44	45.8 45	47.9 45	51.7 43	59.9 40
1946	2.7 25	3.1 26	4.2 25	4.9 25	6.6 24	7.3 14	9.9 15	11.0 15	15.9 13	34.8 14
1947	2.3 22	2.8 20	3.2 21	3.5 20	4.1 11	11.0 25	15.2 27	20.3 29	30.8 34	53.4 37
1948	3.5 30	5.0 32	5.5 30	6.4 30	8.4 29	9.3 21	10.2 16	11.4 16	24.7 25	63.8 42
1949	1.0 13	1.1 13	1.2 13	1.4 11	2.7 8	3.8 7	5.4 8	5.6 3	6.7 1	21.2 2
1950	1.4 15	1.5 15	1.8 15	2.4 14	5.8 20	6.7 12	11.7 20	13.7 20	17.6 15	40.2 19
1951	1.7 18	1.8 18	2.1 18	2.6 15	4.8 14	10.6 23	14.5 23	19.8 28	25.2 26	52.8 36
1952	3.0 26	4.1 29	4.4 26	5.5 26	6.0 21	8.8 20	17.3 32	26.4 38	33.6 38	71.0 43
1953	0.8 12	0.9 12	1.0 11	1.3 9	1.5 5	3.2 4	5.3 7	8.3 7	13.6 10	31.2 9
1954	0.7 10	0.7 10	0.8 7	0.8 7	2.3 7	3.4 6	7.2 9	11.9 17	18.7 18	29.4 6
1955	0.7 11	0.8 11	0.8 8	0.8 8	5.1 17	8.0 17	14.6 24	16.4 24	32.0 35	44.0 25
1956	0.4 9	0.5 8	1.0 9	2.9 16	4.9 15	13.0 28	16.4 29	19.0 27	21.1 21	31.6 10
1957	0.1 4	0.1 4	0.2 4	0.7 6	1.5 6	3.2 5	5.1 5	6.1 4	7.7 3	43.4 23
1958	0.3 8	0.7 9	1.2 12	3.0 17	10.0 33	15.5 35	19.4 34	20.6 30	29.5 32	41.8 20
1959	0.1 5	0.2 6	1.0 10	1.8 12	4.4 13	15.5 36	16.9 31	21.6 33	28.3 31	39.2 18
1960	2.0 19	2.8 19	4.4 27	5.9 28	12.1 35	18.0 40	20.4 38	27.1 40	38.6 41	50.7 32
1961	2.4 23	3.5 27	4.5 28	5.8 27	8.1 28	12.6 27	15.6 28	17.4 25	21.9 23	46.2 30
1962	0.2 7	0.1 7	0.4 6	0.6 5	5.5 18	14.0 32	14.9 25	17.9 26	20.8 20	32.6 13
1963	0.1 6	0.1 5	0.2 5	0.3 4	1.1 4	4.4 8	3.7 3	6.6 5	8.1 4	22.3 3
1964	0.0 1	0.0 1	0.0 1	0.1 1	0.2 1	0.4 1	2.4 1	3.1 1	8.3 5	22.7
1965	0.0 2	0.0 2	0.1 2	0.2 2	0.3 2	1.7 3	5.2 6	4.2 2	6.7 2	14.1 1
1966	0.0 3	0.1 3	0.1 3	0.2 3	0.3 3	0.9 2	3.2 2	8.7 8	26.2 29	34.2 15
	1†	3†	7†	14	30	60	90	120	183	ANNUAL
MEAN	3.481	4.000	4.457	5.251	7.571	11.400	14.673	17.651	24.598	43.422
VARIANCE	8.697	11.327	13.031	16.451	24.920	56.710	83.580	102.965	191.935	199.015
STD DEV	2.949	3.366	3.610	4.056	4.992	7.531	9.142	10.147	13.854	14.107
SKEWNESS	.838	.833	.718	.658	.555	1.441	1.483	1.171	1.482	.403
SE OF SKEW	.365	.361	.357	.354	.354	.354	.354	.354	.354	.354
SER CORR	.530	.520	.522	.468	.374	.291	.181	.157	.126	.133
C OF VAR	.847	.841	.810	.772	.659	.661	.623	.575	.563	.325
LOGS										
MEAN OF	.309	.360	.421	.508	.728	.941	1.085	1.175	1.327	1.613
VAR OF	.305	.326	.306	.287	.210	.141	.079	.069	.060	.023
STD DEV OF	.552	.571	.553	.535	.458	.376	.281	.262	.244	.152
SKEW OF	-1.007	-1.029	-1.065	-1.135	-1.602	-1.468	-1.420	-1.401	-1.224	-.677
SE OF SKEW OF	.365	.361	.357	.354	.354	.354	.354	.354	.354	.354
SER CORR OF	.679	.679	.716	.702	.652	.488	.358	.330	.170	.216
C OF VAR OF	1.784	1.586	1.315	1.054	.630	.399	.259	.223	.184	.094

† Zero flow values excluded in computation of statistics.

1-3950.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

RAHWAY RIVER AT PAHWAY, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1922	505.0 38	339.0 39	226.0 32	152.0 29	113.0 28	84.2 28	80.7 22	78.1 20	71.3 16	42.2 26
1923	533.0 36	415.0 29	322.0 19	211.0 16	149.0 16	96.1 24	83.1 21	72.6 21	55.7 29	33.1 34
1924	1077.0 12	566.0 19	326.0 18	199.0 18	147.0 18	127.0 9	109.0 9	56.2 9	83.9 6	55.8 9
1925	83.0 25	502.0 16	373.0 10	243.0 11	144.0 5	129.0 7	95.8 14	79.5 18	64.0 22	41.0 27
1926	905.0 19	454.0 26	287.0 25	227.0 13	152.0 12	103.0 22	78.2 27	71.7 22	61.6 24	46.8 19
1927	1140.0 10	633.0 15	335.0 17	295.0 5	205.0 2	162.0 2	115.0 6	103.0 4	78.8 10	66.7 3
1928	1260.0 8	731.0 7	375.0 9	232.0 12	144.0 17	110.0 17	91.9 16	83.5 16	84.1 5	71.9 1
1929	680.0 20	379.0 35	255.0 31	195.0 20	124.0 22	110.0 18	98.2 13	86.2 13	68.5 18	42.8 23
1930	432.0 43	312.0 41	170.0 43	116.0 39	86.6 38	64.3 38	56.3 37	52.4 37	43.2 39	29.3 39
1931	355.0 46	235.0 45	167.0 44	105.0 43	81.0 43	64.5 37	56.7 36	56.4 35	47.3 36	32.8 36
1932	466.0 41	350.0 38	199.0 36	120.0 36	95.8 33	66.0 36	53.0 39	50.0 40	38.7 41	22.9 42
1933	1210.0 9	867.0 4	415.0 7	294.0 6	169.0 10	110.0 19	89.6 17	78.1 19	80.3 8	65.5 5
1934	548.0 35	359.0 36	198.0 37	130.0 34	106.0 30	87.9 27	80.2 23	69.0 26	58.5 26	42.5 25
1935	791.0 44	273.0 44	150.0 45	102.0 44	82.1 41	64.1 39	53.7 40	51.7 38	44.9 38	33.0 35
1936	978.0 14	597.0 17	314.0 20	247.0 10	183.0 6	133.0 4	104.0 10	95.0 11	75.9 9	49.8 15
1937	522.0 37	301.0 42	181.0 42	145.0 31	126.0 23	105.0 21	88.5 19	79.7 17	74.1 13	51.0 13
1938	2270.0 1	1330.0 1	642.0 1	333.0 3	102.0 4	118.0 13	116.0 5	95.8 10	76.5 11	63.0 6
1939	670.0 32	413.0 30	276.0 26	186.0 23	152.0 13	127.0 8	119.0 4	100.0 6	83.5 7	51.1 12
1940	970.0 17	659.0 14	354.0 13	197.0 19	132.0 21	123.0 10	112.0 7	96.4 8	73.1 14	44.4 21
1941	739.0 29	397.0 34	194.0 39	114.0 41	90.1 36	78.7 31	65.4 34	60.0 32	46.9 33	33.6 33
1942	1060.0 13	713.0 10	505.0 2	361.0 1	205.0 3	118.0 14	88.7 18	70.1 24	67.4 21	48.2 17
1943	586.0 36	485.0 24	274.0 28	166.0 30	100.0 32	75.2 34	74.6 28	69.3 25	63.5 23	43.6 22
1944	794.0 28	521.0 21	300.0 23	168.0 28	126.0 24	110.0 20	87.5 20	84.7 14	68.3 20	50.9 18
1945	1360.0 4	721.0 9	368.0 11	189.0 21	115.0 27	91.6 29	79.1 24	68.5 27	68.4 19	57.0 7
1946	853.0 24	555.0 20	275.0 27	174.0 26	133.0 20	96.5 23	78.4 26	65.7 22	60.2 25	51.2 11
1947	479.0 29	295.0 43	183.0 41	105.0 42	85.3 39	76.6 33	67.0 32	60.0 33	49.3 34	32.5 37
1948	987.0 16	547.0 19	417.0 6	262.0 8	149.0 14	119.0 11	104.0 11	103.0 5	83.6 3	66.5 4
1949	1110.0 11	667.0 13	401.0 8	253.0 9	181.0 7	104.0 5	104.0 12	94.2 12	71.0 17	40.4 29
1950	256.0 45	219.0 46	132.0 46	78.3 46	49.5 46	44.2 44	35.4 44	32.3 44	28.9 43	19.7 45
1951	865.0 23	507.0 23	304.0 22	178.0 24	119.0 26	116.0 15	95.5 15	84.2 15	72.9 15	46.3 20
1952	1240.0 9	884.0 3	437.0 5	292.0 7	176.0 9	130.0 6	122.0 2	104.0 3	101.0 1	71.9 2
1953	1060.0 14	706.0 11	461.0 4	304.0 4	221.0 1	166.0 1	136.0 1	121.0 1	98.0 2	50.9 8
1954	211.0 27	450.0 27	210.0 33	115.0 40	64.8 45	40.8 46	30.6 46	25.8 46	25.9 45	21.9 44
1955	1670.0 2	1010.0 2	497.0 3	345.0 2	180.0 8	95.0 25	72.0 31	57.1 34	51.5 32	38.7 29
1956	472.0 40	356.0 37	204.0 34	119.0 38	107.0 29	98.0 26	72.6 30	61.8 31	52.3 31	39.2 30
1957	635.0 31	458.0 25	256.0 30	144.0 32	94.2 34	69.9 35	57.6 35	50.7 35	45.6 37	28.0 40
1958	902.0 20	514.0 22	291.0 24	203.0 17	130.0 19	119.0 12	112.0 8	110.0 2	90.6 4	64.4 10
1959	873.0 22	461.0 31	272.0 29	160.0 33	81.7 42	56.3 42	45.9 41	41.7 41	39.6 40	34.0 32
1960	995.0 15	668.0 12	311.0 21	174.0 27	105.0 31	77.0 32	66.5 33	65.5 29	57.6 27	48.8 16
1961	616.0 23	399.0 32	336.0 16	214.0 14	162.0 11	148.0 3	120.0 3	98.6 7	76.0 12	50.7 14
1962	1310.0 5	776.0 6	354.0 12	214.0 15	149.0 15	110.0 16	79.1 25	71.1 23	53.5 30	35.8 31
1963	438.0 42	330.0 40	194.0 40	120.0 35	86.6 40	56.8 41	43.5 42	40.1 42	36.6 42	23.0 41
1964	891.0 21	432.0 29	196.0 38	119.0 37	90.7 35	58.7 40	54.6 38	56.2 36	48.0 35	31.7 38
1965	820.0 26	397.0 33	202.0 35	98.5 45	68.4 44	41.0 45	33.0 45	29.3 45	24.1 46	15.0 46
1966	1480.0 3	784.0 5	343.0 15	175.0 25	89.1 37	48.3 43	35.4 43	36.9 43	26.3 44	22.8 43
1967	1310.0 6	722.0 8	349.0 14	188.0 22	123.0 25	79.5 30	73.2 29	62.6 30	57.6 29	42.7 24
MEAN	880.369	537.869	300.804	189.626	128.578	95.917	80.800	72.126	61.880	43.261
VARIANCE	150568.062	49096.754	11463.066	5213.812	1753.557	1006.848	707.180	522.996	375.997	209.327
STD DEV	388.031	221.578	107.066	72.207	41.875	31.731	26.593	22.869	19.391	14.468
SKEWNESS	1.130	1.217	.813	.647	.316	.119	-.059	-.055	-.079	.259
SE OF SKEW	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR	-.164	-.221	-.169	-.142	-.029	.113	.167	.119	.163	.220
C OF VAR	.441	.412	.356	.381	.326	.331	.329	.317	.313	.334

LOGS

MEAN OF	2.905	2.697	2.452	2.247	2.085	1.956	1.881	1.833	1.767	1.610
VAR OF	.036	.029	.024	.027	.022	.025	.026	.024	.024	.025
STD DEV OF	.189	.171	.154	.166	.148	.157	.162	.156	.154	.158
SKEW OF	-.048	.111	-.060	-.009	-.358	-.540	-.769	-.846	-.837	-.616
SE OF SKEW OF	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR OF	-.087	-.168	-.119	-.109	-.034	.130	.153	.108	.171	.233
C OF VAR OF	.065	.063	.063	.074	.071	.080	.086	.085	.087	.098

STATISTICS OF MONTHLY MEANS, 1922-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	22.80	22.88	2.812	1.004	4.382	.294
NOV	35.86	33.08	2.382	.9226	6.893	.078
DEC	37.86	25.23	.6557	.6665	7.277	.192
JAN	45.98	31.84	1.101	.6924	8.839	.402
FEB	59.02	31.92	1.098	.5408	11.34	-.021
MAR	78.32	36.19	.8958	.4620	15.05	.071
APR	63.47	35.19	.4081	.5544	12.20	.470
MAY	45.42	29.39	1.166	.6471	8.731	.371
JUN	30.40	24.33	1.793	.8005	5.843	.618
JUL	34.38	33.61	2.384	.9777	6.608	.412
AUG	34.90	43.98	2.852	1.260	6.709	.170
SEP	31.83	32.50	1.512	1.021	6.118	.228

STATISTICS OF LOGS OF MONTHLY MEANS, 1922-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	1.203	.3723	-.0598	.3096	6.757	.462
NOV	1.408	.3701	-.1912	.2629	7.909	.249
DEC	1.470	.3256	-.2729	.2214	8.262	.368
JAN	1.552	.3328	-.4148	.2145	8.719	.418
FEB	1.708	.2435	-.3289	.1426	9.598	.060
MAR	1.848	.2063	-.2420	.1116	10.38	.125
APR	1.720	.2962	-.8094	.1722	9.664	.466
MAY	1.568	.2913	-.2303	.1858	8.808	.395
JUN	1.359	.3455	-.3831	.2542	7.637	.590
JUL	1.349	.4698	-1.353	.3483	7.580	.610
AUG	1.315	.4708	-.6357	.3581	7.388	.343
SEP	1.299	.4305	.1462	.3315	7.297	.491

1-3960.00 ROBINSONS BRANCH RAHWAY RIVER AT RAHWAY, N. J.

Location.--Lat 40°36'20", long 74°17'57", 2,000 ft upstream from Madison Avenue.

Drainage area.--21.6 sq mi.

Remarks.--Regulation reduces flood peaks. Diversion very significant at all flows.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																			
1940	1				1	2			15	30	79	30	24	12	11	23	20	16	17	16	16	13	8	9	4	4	6	4	1	3			1			
																																				CFS DAYS 8888.6
1941					4			20	25	16	27	31	11	15	36	41	34	32	24	8	7	9	6	6	3	7	1		1	1					7210.0	
1942	1	1			1	6		8	23	34	48	47	13	15	27	22	28	14	13	9	5	9	5	12	4	7	7	3	2	1					9497.1	
1943			1		22	22		29	13	7	4	3	14	13	33	67	24	26	18	11	14	6	10	10	5	5	1	4	3						9491.4	
1944					8	31		35	20	17	14	20	47	5	25	40	6	19	17	10	7	7	8	5	4	8	3	5	2	2	1				10035.3	
1945								3	9	22	26	24	26	18	50	35	26	31	13	10	14	11	10	11	4	9	4	6	2	1					11460.6	
1946																																			11000.0	
1947																																			7015.5	
1948	23	8	1					4	6	6	6	7	4	5	15	24	38	17	33	41	16	18	18	12	14	9	7	3	10	5	1				15117.7	
1949	12	1			17	56	27	12	19	14	8	6	9	10	4	11	34	13	23	28	13	9	11	8	2	5	6	1	1	3	1	1				8230.1
1950					6	14	21	33	49	30	38	23	18	24	23	14	19	11	11	10	4	4	4	4				1	2	1	1					4135.6
1951																																			9647.5	
1952																																			15100.3	
1953	38	11	5	5	4	15	10	8	42	12	1	5	4	8	14	34	14	35	16	13	16	9	8	10	7	7	4	7	2			1			11119.9	
1954	94	14	28	7	2	16	12	5	9	9	8	14	14	25	17	28	16	10	9	5	6	2	5	3	4	1	1	1							3654.0	
1955	51	10	8	16	1	13	6	10	7	23	8	35	14	16	13	27	26	13	20	8	8	9	4	2	6	2	4	2	1	1					7346.1	
1956	29	7	6	1	1	15	6	13	24	20	18	34	15	17	21	23	23	21	19	6	11	7	6	6	4	6	3	3	1						7161.1	
1957	108	14	10	3	2	7	13	12	24	13	11	21	9	19	18	10	10	12	11	6	11	7	3	1	5	2	1		1	1					4395.6	
1958	39	7	9	1	1	13	14	6	22	22	18	39	14	13	19	16	6	16	10	9	14	8	13	7	8	6	8	4	1	1	1				10457.8	
1959	3	4	9		1	11	7	23	16	11	13	34	16	52	39	23	15	18	14	15	8	10	4	7	2	3	1	3	1	1	1				7765.5	
1960	1	14	6	1		6	8		11	13	26	47	23	39	19	35	16	15	15	14	11	9	11	9	3	5	2	4	2	1					8762.2	
1961																																			9627.7	
1962	8																																		6478.0	
1963																																			3600.9	
1964																																			5534.1	
1965																																			2114.2	
1966	26	129	14	10	21	16	28	18	23	11	7	6	15	6	4	1	7	3	2	3	1	2	1	2	3	1	3	1							4110.1	
1967	53	2	10	2	14	3	46	17	22	11	16	14	16	12	19	15	17	16	10	13	9	6	4	4	6	3	4								7508.5	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	407	10227	100.0	9	1.60	637	7242	70.8	18	20.0	447	2123	20.8	27	250	79	157	1.5
1	0.10	192	9820	96.0	10	2.20	513	6605	64.6	19	27.0	303	1676	16.4	28	330	48	79	7
2	0.20	328	9628	94.1	11	2.90	600	6092	59.6	20	35.0	277	1373	13.4	29	430	19	31	3
3	0.30	194	9300	90.9	12	3.80	456	5492	53.7	21	46.0	219	1096	10.7	30	570	7	12	1
4	0.40	186	9106	89.0	13	5.00	525	5036	49.2	22	61.0	204	877	8.6	31	760	4	5	0
5	0.50	332	8920	87.2	14	6.60	622	4511	44.1	23	81.0	170	673	6.6	32	1000	1	1	
6	0.70	235	8588	84.0	15	8.70	748	3889	38.0	24	110.0	119	503	4.9	33				
7	0.90	501	8353	81.7	16	12.00	481	3141	30.7	25	140.0	137	384	3.8	34				
8	1.20	610	7852	76.8	17	15.00	537	2660	26.0	26	190.0	90	247	2.4					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

ROBINSONS BRANCH RAHWAY RIVER AT RAHWAY, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	0.9 23	0.9 23	1.0 24	1.1 24	1.4 21	3.2 23	5.6 23	5.8 20	10.7 19	20.5 23
1941	0.0 1	0.2 16	0.8 22	1.0 21	1.4 22	1.5 13	1.8 12	3.0 11	5.5 8	17.7 9
1942	1.3 27	1.3 26	1.4 26	1.4 26	2.8 27	4.1 24	4.5 21	10.4 24	25.0 27	31.4 24
1943	0.2 16	0.4 19	0.4 17	0.5 14	0.6 13	0.7 10	1.1 10	1.8 7	10.4 27	25.5 26
1944	0.4 20	0.4 20	0.4 18	0.5 15	0.6 14	0.7 11	3.6 18	4.8 18	10.7 17	28.0 20
1945	1.1 26	1.4 27	1.5 27	1.9 27	2.0 24	8.9 27	16.1 27	14.0 27	17.8 25	29.3 21
1946	0.5 21	0.5 21	0.7 20	0.9 19	1.3 20	2.2 19	4.4 20	4.2 16	9.5 15	21.5 12
1947	0.0 2	0.0 1	0.0 1	0.0 1	1.2 17	2.9 22	4.0 19	3.9 15	13.5 21	31.9 25
1948	0.0 3	0.0 2	0.0 2	0.0 2	0.1 5	0.6 9	0.8 9	2.8 9	9.9 16	38.5 26
1949	0.3 18	0.3 17	0.3 15	0.3 12	0.4 11	0.5 7	0.5 7	0.5 4	0.7 3	11.7 4
1950	0.9 24	1.0 24	1.0 23	1.1 22	1.3 18	1.8 16	3.2 14	3.7 14	6.6 10	24.6 17
1951	0.6 22	0.6 22	0.8 21	0.8 17	0.9 15	2.1 17	3.3 16	5.8 21	8.2 13	29.3 22
1952	1.0 25	1.1 25	1.2 25	1.2 25	1.3 19	1.6 14	6.4 25	11.3 25	13.5 22	30.6 27
1953	0.0 4	0.0 3	0.0 3	0.0 3	0.0 1	0.2 3	0.2 3	0.3 1	0.9 4	14.5 4
1954	0.0 5	0.0 4	0.0 4	0.0 4	0.0 2	0.0 1	0.1 1	2.7 8	5.6 9	16.6 8
1955	0.0 6	0.0 5	0.0 5	0.0 5	0.0 3	2.1 18	3.6 17	5.9 22	16.7 24	22.7 14
1956	0.0 7	0.0 6	0.0 6	0.0 6	0.3 10	1.2 12	1.7 11	2.9 10	3.7 7	12.6 5
1957	0.0 8	0.0 7	0.0 7	0.0 7	0.0 4	0.1 2	0.1 2	0.3 2	0.6 1	24.1 16
1958	0.0 9	0.0 8	0.0 8	0.0 8	2.5 26	4.2 25	5.7 24	5.7 19	14.8 23	23.4 15
1959	0.0 10	0.1 13	0.1 9	0.3 13	0.5 12	2.7 21	5.5 22	8.1 23	8.9 14	18.5 11
1960	0.0 11	0.1 14	0.6 19	1.1 23	2.4 25	6.5 26	8.3 26	12.7 26	18.1 26	27.8 19
1961	0.3 19	0.3 18	0.3 16	0.7 16	1.1 16	1.7 15	3.2 15	4.6 17	6.7 11	21.6 13
1962	0.0 12	0.0 9	0.2 13	1.0 20	1.9 23	2.4 20	2.5 13	3.6 13	6.7 12	15.1 7
1963	0.1 13	0.1 10	0.1 10	0.1 8	0.2 6	0.3 4	0.5 8	0.7 5	0.9 5	10.1 3
1964	0.2 17	0.2 15	0.2 14	0.2 11	0.2 7	0.5 8	0.4 5	0.7 6	2.6 6	10.7 3
1965	0.1 14	0.1 11	0.1 11	0.1 9	0.2 8	0.4 6	0.5 6	0.5 3	0.6 2	6.2 1
1966	0.1 15	0.1 12	0.2 12	0.2 10	0.2 9	0.3 5	0.3 4	3.3 12	12.1 20	18.4 10

1-1960.00 ROBINSONS BRANCH RAHWAY RIVER AT RAHWAY, N. J.
 LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1 [†]	3 [†]	7 [†]	14 [†]	30 [†]	60 [†]	90	120	183	ANNUAL
MEAN	.533	.506	.595	.760	1.078	2.054	3.256	4.593	8.937	22.237
VARIANCE	.165	.195	.206	.234	.662	4.248	11.738	14.457	40.278	74.035
STD DEV	.406	.441	.454	.484	.813	2.061	3.426	3.802	6.346	8.604
SKEWNESS	.598	.924	.679	.424	.636	1.901	2.155	1.098	.647	.119
SE OF SKEW	.580	.536	.524	.512	.481	.456	.448	.448	.448	.448
SER CORR	.203	-.007	.200	.137	-.074	-.010	.185	.106	-.007	.238
C OF VAR	.762	.873	.763	.637	.754	1.004	1.052	.828	.710	.387

LOGS

MEAN OF	-.420	-.473	-.374	-.241	-.128	.094	.223	.467	.770	1.310
VAR OF	.157	.176	.157	.142	.180	.236	.360	.237	.241	.038
STD DEV OF	.396	.420	.396	.377	.424	.485	.600	.487	.491	.194
SKEW OF	-.255	.020	-.284	-.844	-.510	-.402	-.631	-.783	-1.067	-.831
SE OF SKEW OF	.580	.536	.524	.512	.481	.456	.448	.448	.448	.448
SER CORR OF	.469	.282	.354	.393	.202	.072	.259	.121	.043	.322
C OF VAR OF	-.943	-.889	-1.058	-1.568	-3.311	5.188	2.691	1.043	.637	.148

† Zero flow values excluded in computation of statistics.

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ROBINSONS BRANCH RAHWAY RIVER AT RAHWAY, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	1000.0 1	410.0 6	215.0 10	125.0 9	79.7 13	75.1 6	72.3 3	62.6 4	44.8 7	24.3 12
1941	466.0 18	270.0 23	130.0 24	72.1 22	67.0 18	53.9 16	43.6 18	40.0 17	32.6 16	19.8 18
1942	491.0 16	366.0 10	249.0 5	178.0 3	106.0 4	61.2 12	47.3 16	38.8 19	35.3 13	26.0 9
1943	389.0 24	309.0 16	175.0 16	90.0 17	67.9 17	47.0 18	48.0 14	44.9 11	39.7 11	24.9 11
1944	615.0 10	391.0 8	227.0 8	112.0 14	82.6 11	67.4 8	53.9 9	53.4 9	43.0 9	27.4 7
1945	528.0 14	277.0 21	181.0 15	136.0 7	87.3 8	58.4 14	52.9 10	51.3 10	47.0 5	31.4 3
1946	649.0 9	362.0 11	185.0 13	106.0 16	84.3 10	58.8 13	45.8 17	40.6 14	38.2 12	30.1 5
1947	260.0 28	189.0 27	135.0 22	71.2 23	64.2 19	54.1 15	48.4 12	41.2 13	34.7 14	19.2 20
1948	500.0 15	306.0 17	237.0 7	160.0 5	104.0 5	77.2 5	69.2 4	69.8 2	59.3 2	41.3 2
1949	752.0 6	493.0 2	255.0 4	166.0 4	124.0 2	86.7 3	66.9 5	58.9 6	44.0 8	27.5 14
1950	347.0 25	205.0 26	119.0 25	65.7 25	39.5 26	37.8 23	28.9 24	24.9 24	20.0 24	11.3 25
1951	447.0 19	295.0 19	183.0 14	113.0 13	71.8 16	72.3 7	60.4 8	54.9 8	47.0 6	26.4 8
1952	930.0 2	556.0 1	292.0 1	188.0 1	111.0 3	81.1 4	73.1 2	63.9 3	62.6 3	41.5 1
1953	718.0 7	443.0 4	283.0 2	180.0 2	126.0 1	95.6 1	80.5 1	72.7 1	58.5 1	30.6 4
1954	276.0 27	182.0 28	86.3 28	45.9 28	27.0 28	19.2 28	20.9 27	17.4 27	15.9 26	10.0 28
1955	820.0 4	486.0 3	255.0 3	154.0 6	77.3 14	40.4 20	29.2 23	27.2 23	25.6 22	20.1 16
1956	393.0 23	275.0 22	148.0 21	86.3 21	76.6 15	62.6 11	50.8 11	40.5 15	34.1 15	19.6 19
1957	417.0 20	310.0 15	166.0 18	88.8 19	56.6 22	39.4 22	31.3 21	27.9 22	23.4 23	12.0 23
1958	700.0 8	395.0 7	205.0 11	125.0 8	88.1 7	64.8 9	65.2 7	62.0 5	52.0 4	28.7 6
1959	578.0 11	337.0 13	239.0 6	119.0 11	62.7 20	40.3 21	32.6 20	29.9 20	29.4 20	10.9 17
1960	552.0 13	344.0 12	154.0 20	89.1 18	49.8 24	44.6 19	38.7 19	39.0 18	30.4 18	23.0 13
1961	420.0 21	280.0 20	186.0 12	118.0 12	92.4 6	88.4 2	66.5 6	56.1 7	41.5 10	25.8 10
1962	572.0 12	331.0 14	166.0 19	110.0 15	86.5 9	63.6 10	47.7 15	44.0 12	30.7 17	17.7 21
1963	337.0 26	213.0 25	118.0 27	59.7 26	49.9 23	30.6 25	21.8 26	24.1 25	18.8 25	9.9 27
1964	469.0 17	297.0 18	131.0 23	65.9 24	48.1 25	31.5 24	29.3 22	29.7 21	26.1 21	15.1 22
1965	417.0 22	226.0 24	119.0 26	58.1 27	38.8 27	22.8 27	17.1 28	14.6 28	11.0 28	5.8 28
1966	780.0 5	387.0 9	167.0 17	87.6 20	58.4 21	30.3 26	22.9 25	22.2 26	14.8 27	11.3 24
1967	821.0 3	439.0 5	219.0 9	120.0 12	80.1 12	52.8 17	48.3 13	40.0 16	29.8 19	20.8 15
MEAN	559.428	334.786	186.618	110.371	75.343	55.639	46.911	42.589	35.364	22.043
VARIANCE	37957.395	9027.047	2948.007	1596.573	626.520	418.677	318.883	259.172	186.541	77.635
STD DEV	194.827	95.011	54.296	39.957	25.030	20.462	17.857	16.099	13.658	8.811
SKEWNESS	.576	.404	.196	.393	.197	.102	.070	.131	.212	.312
SE OF SKEW	.441	.441	.441	.441	.441	.441	.441	.441	.441	.441
SER CORR	-.183	-.250	-.128	-.080	-.017	.165	.191	.182	.295	.268
C OF VAR	.348	.284	.291	.362	.332	.368	.381	.378	.386	.400

LOGS

MEAN OF	2.722	2.507	2.252	2.014	1.851	1.713	1.636	1.595	1.513	1.304
VAR OF	.023	.016	.018	.027	.025	.032	.034	.034	.036	.040
STD DEV OF	.153	.126	.133	.164	.159	.179	.185	.183	.189	.199
SKEW OF	-.089	-.231	-.375	-.254	-.708	-.669	-.565	-.605	-.711	-.849
SE OF SKEW OF	.441	.441	.441	.441	.441	.441	.441	.441	.441	.441
SER CORR OF	-.236	-.295	-.180	-.122	-.063	.197	.236	.208	.312	.287
C OF VAR OF	.056	.050	.059	.081	.086	.105	.113	.115	.125	.153

1-3960.00 ROBINSONS BRANCH RAHWAY RIVER AT RAHWAY, N. J.

STATISTICS OF MONTHLY MEANS, 1940-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1940-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	8.738	13.93	2.424	1.594	3.290	.174	.4824	.6432	.4670	1.333		.272
NOV	21.01	21.52	1.441	1.024	7.913	.022	1.003	.6391	-.6004	.6372		.486
DEC	22.19	18.53	.6486	.8351	8.356	.287	1.127	.5152	-.6622	.4572		.389
JAN	26.80	22.26	1.121	.8305	10.09	.477	1.233	.4886	-.8929	.3963		.575
FEB	36.14	18.21	.3030	.5038	13.61	.143	1.494	.2565	-.6375	.1717		.100
MAR	46.30	22.61	.6372	.4882	17.44	.113	1.610	.2343	-.4857	.1455		.182
APR	34.05	21.95	.3112	.6445	12.82	.561	1.372	.4952	-1.950	.3610		.456
MAY	25.33	24.71	1.309	.9754	9.539	.292	1.134	.5870	-.9354	.5175		.448
JUN	11.59	17.50	2.323	1.510	4.363	.653	.6254	.6932	-.2782	1.108		.548
JUL	9.519	10.47	1.397	1.100	3.584	.379						
AUG	13.09	22.13	2.596	1.691	4.928	.096	.5519	.7860	-.0134	1.424		
SEP	10.81	14.49	1.464	1.341	4.069	.057	.4990	.8417	-.5606	1.687		-.015

Note.--Some statistics of logs not computed; monthly mean discharge for month of July equals zero 1 or more times during period of record.

1-3965.00 SOUTH BRANCH RARITAN RIVER BASIN NEAR HIGH BRIDGE, N. J.

Location.--Lat 40°40'40", long 74°52'45", 1.0 mile northeast of High Bridge, N.J.

Drainage area.--65.3 sq mi.

TABLE 1A.--DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS DAYS		
1919										17	21	28	22	24	9	14	28	19	28	34	28	41	16	8	6	4	4	3	2	5	1				50064.0		
1920										2	15	11	15	71	18	30	52	29	17	25	14	14	17	4	18	6	3	4	1			2		1	56857.0		
1921										1	7	29	27	12	21	12	29	15	5	9	24	38	39	30	18	17	10	6	2	2	3	3	5	1	50467.0		
1922										3	21	16	47	32	28	39	22	29	24	18	15	18	14	8	12	2	5	7		2	2			1	44953.0		
1923										1	14	16	19	56	50	17	41	37	15	18	17	10	12	11	5	4	5	4	4	3		1	1		34099.0		
1924										4	20	35	35	23	11	19	22	21	41	38	22	16	12	16	10	7	3		5	3	2			1	41149.0		
1925										11	9	58	63	34	40	30	25	16	10	7	13	10	13	6	3	5	3	3	2		4				35978.0		
1926										14	20	40	36	25	35	45	49	32	20	6	19	7	2	7	1	2	1	3		1					37260.0		
1927										13	16	14	50	47	46	60	32	22	27	7	10	8	4	3	3	3									46675.0		
1928										2	6	9	21	52	44	53	50	37	26	17	15	8	5	8	4	3	4	1							77911.0		
1929										1	6	15	36	15	14	51	56	30	30	24	20	13	11	17	11	4	3	2	2	2					39640.0		
1930										1	25	22	26	28	33	28	21	30	39	27	34	19	10	10	3	4	1		2	1	1					29881.0	
1931										4	13	23	26	46	24	29	32	43	31	23	24	15	6	7	6	5	2		1	1	2					30025.0	
1932										16	33	45	62	33	21	43	24	25	24	11	7	8	2	6	1	1	2		1	1	2					21764.0	
1933										2	4	4	26	16	23	12	24	18	27	34	49	23	23	21	19	12	9	3	6	1	4	1	2		2	47894.0	
1934										1	15	24	38	52	43	42	23	30	27	15	16	14	8	4	3	3	2	2	1					1	1	36571.0	
1935										9	34	32	15	20	44	39	44	44	26	17	15	7	4	4	4	2	2	1		1				1	39765.0		
1936										4	19	52	37	19	21	19	26	17	22	23	16	16	16	12	9	6	5	8	4	6	3	2	2		1	1	49430.0
1937										9	54	37	20	25	21	16	31	29	38	27	12	15	8	7	7	4	1	1		1	1	1				36708.0	
1938										14	3	11	26	33	45	38	49	49	28	18	11	8	13	3	2	3	1	4	1	1		2	1	1	46903.0		
1939										5	17	42	14	12	19	14	31	28	38	23	13	9	32	24	14	8	4	6	3						1	46045.0	
1940										1	8	3	8	15	40	29	41	26	25	21	13	17	19	13	16	14	14	10	3	5	2	4	1	2		1	42985.0
1941										1	7	25	20	19	24	29	21	23	22	41	32	27	23	11	14	7	9	2	3	1	2	1	1				33029.0
1942										7	33	23	23	19	24	20	38	39	19	21	22	18	11	7	9	9	2	5	6	1	2	5		1	1		30950.0
1943										5	15	21	12	16	8	12	10	22	42	51	44	23	29	14	12	6	7	5	2	4	2	1	1			1	50929.0
1944										18	13	25	25	15	21	28	28	34	27	17	13	13	17	18	13	13	8	10	2	2	2	1	1	2			36645.0
1945										3	15	18	3	5	2	3	22	32	36	21	34	32	21	20	24	22	12	15	8	4	6	3		1	3	51377.0	
1946										3	13	15	20	24	37	45	36	30	34	27	14	21	19	6	9	3	3	2		3				1		43502.0	
1947										3	34	52	35	23	35	23	21	23	27	28	13	13	9	9	2	3	6	2	2	1				1		37624.0	
1948										2	28	29	32	16	27	26	31	18	20	17	18	26	24	12	16	6	7	3	3	3	1			1		49271.0	
1949										16	26	42	48	38	21	10	10	8	14	27	25	15	18	11	4	4	2	4	1						2	1	30904.0
1950										7	43	40	28	32	22	25	30	27	21	30	13	14	14	7	4	3	2	1	1		1					30564.0	
1951										19	16	9	23	17	18	26	23	29	29	34	20	26	20	23	8	2	5	4	5	1	3	1	2		1	1	55570.0
1952										6	15	37	29	11	15	24	22	29	43	35	29	23	13	9	3	6	7	5	1	1				2	1	74301.0	
1953										1	27	19	26	25	43	12	5	9	2	24	21	21	29	23	22	21	12	4	8	3	1	4	1		1	57295.0	
1954										2	43	28	38	38	34	25	22	14	22	36	21	8	7	9	5	1	2	3	2	3						27511.0	
1955										5	14	14	14	27	31	24	24	24	30	39	31	13	10	16	2	4	2	7		2	2		1			1	25000.0
1956										14	13	32	36	36	21	21	26	31	34	21	20	16	16	9	4	7	3	1	3					1	1		48510.0
1957										13	39	24	12	33	11	14	27	18	40	27	25	19	13	9	9	9	6	7	2	1	4		2		1	37502.0	
1958										8	13	31	28	28	23	14	22	15	24	18	16	11	12	25	13	14	11	11	10	5	6	2	2		1	2	50493.0
1959										10	21	37	29	24	42	45	35	19	24	17	19	10	12	6	2	4	2	2	3	1					1	31744.0	
1960										3	12	22	22	30	29	31	39	45	29	28	25	13	10	10	4	2	4	2	3	3						49333.0	
1961										4	22	32	36	68	55	16	11	16	11	13	20	19	13	14	6	3	4		1							42508.0	
1962										3	34	48	57	33	32	30																					

1-3965.00 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.

TABLE 1B.--SUMMARY DURATION TABLE OF DAILY DISCHARGE

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	17897	100.0	9	44.00	1246	13872	77.5	18	170.0	885	3168	17.7	27	680	57	135	7
1	13.00	1	17897	100.0	10	51.00	1144	12626	70.5	19	200.0	620	2283	12.8	28	790	20	78	4
2	15.00	13	17896	100.0	11	59.00	1346	11482	64.2	20	230.0	466	1663	9.3	29	920	28	58	3
3	18.00	138	17883	99.9	12	69.00	1433	10136	56.6	21	270.0	356	1197	6.7	30	1100	11	30	1
4	21.00	280	17745	99.2	13	81.00	1159	8703	48.6	22	320.0	218	841	4.7	31	1200	9	19	1
5	24.00	519	17465	97.6	14	94.00	1258	7544	42.2	23	370.0	184	623	3.5	32	1400	7	10	0
6	28.00	715	16946	94.7	15	110.00	1360	6286	35.1	24	430.0	130	439	2.5	33	1700	2	3	0
7	32.00	1131	16231	90.7	16	130.00	995	4926	27.5	25	500.0	111	309	1.7	34	2000	1	1	0
8	38.00	1228	15100	84.4	17	150.00	763	3931	22.0	26	580.0	63	198	1.1					

TABLE 2A.--LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1919	28.0 23	33.3 34	40.4 39	46.9 40	53.6 41	67.9 43	91.4 45	125.0 48	121.0 45	162.0 44
1920	31.0 29	44.0 43	47.6 44	50.2 43	57.8 44	79.7 45	81.2 43	101.0 45	110.0 41	164.0 45
1921	23.0 13	25.3 15	26.4 16	28.7 18	32.2 19	34.1 18	36.4 18	40.4 19	45.8 14	103.0 19
1922	36.0 41	36.0 40	39.6 38	40.4 37	42.0 34	44.9 29	48.3 29	62.2 32	73.5 33	119.0 30
1923	23.0 14	25.0 14	26.3 14	27.6 15	28.7 12	32.9 15	34.3 12	37.3 15	47.2 16	92.6 12
1924	29.0 26	30.0 25	30.0 23	31.7 24	34.3 23	40.2 25	45.7 27	49.5 28	51.3 20	120.0 31
1925	37.0 42	39.7 41	41.7 41	43.8 38	48.6 38	53.5 36	65.9 37	65.1 33	69.4 30	106.0 23
1926	34.0 39	34.7 37	35.6 34	39.9 35	42.9 35	48.5 33	51.9 32	57.7 30	62.3 28	104.0 20
1927	44.0 44	48.3 46	51.6 46	53.6 46	61.5 46	81.1 48	91.4 46	93.5 43	115.0 44	174.0 46
1928	54.0 48	56.0 48	58.9 48	65.6 48	68.7 48	72.4 44	73.5 41	88.7 42	114.0 43	155.0 41
1929	26.0 20	29.3 23	31.1 25	32.9 25	35.9 27	39.7 24	44.4 25	48.3 25	55.7 22	101.0 17
1930	27.0 10	22.0 10	24.4 11	25.2 11	26.0 10	27.5 9	29.1 9	30.6 8	37.6 9	67.7 2
1931	28.0 24	30.0 24	30.9 24	31.2 23	32.0 18	32.7 14	34.7 14	36.9 13	47.2 17	82.6 8
1932	22.0 11	22.3 11	23.1 10	23.8 10	25.2 9	25.9 8	27.0 7	31.9 10	42.7 12	96.1 15
1933	32.0 34	32.7 30	35.6 35	36.7 32	38.6 30	44.6 28	55.4 34	75.2 39	86.2 36	110.0 26
1934	31.0 30	32.7 31	34.4 28	35.9 28	44.9 36	45.8 31	61.6 36	70.3 36	95.5 39	121.0 33
1935	35.0 40	35.7 39	36.4 36	36.9 33	38.6 31	49.2 34	50.0 30	73.5 39	72.2 31	120.0 36
1936	27.0 21	27.0 20	28.4 19	29.9 19	31.2 17	33.0 16	34.6 13	35.8 12	44.4 13	102.0 18
1937	32.0 35	33.0 33	34.9 29	36.4 30	36.8 28	50.0 35	50.0 31	53.1 29	72.4 32	107.0 24
1938	45.0 45	47.7 45	48.9 45	50.9 44	57.9 45	79.9 46	94.0 47	111.0 46	126.0 46	168.0 40
1939	17.0 2	17.7 4	18.4 4	21.3 7	20.1 14	34.1 19	35.9 17	37.1 14	40.6 10	89.6 11
1940	31.0 31	32.7 32	38.1 37	40.2 36	45.2 37	60.5 40	69.1 39	69.4 34	88.3 38	137.0 39
1941	20.0 8	21.7 9	22.7 9	23.4 9	23.8 7	24.4 6	27.9 8	29.7 7	35.4 6	80.2 4
1942	32.0 32	32.0 28	35.3 32	47.6 41	53.8 42	56.3 38	67.7 38	80.7 41	129.0 47	160.0 43
1943	25.0 17	26.3 17	26.9 18	28.3 16	30.7 16	33.5 17	38.0 20	44.7 21	59.9 26	106.0 21
1944	19.0 5	19.3 5	19.7 5	19.9 4	20.6 3	24.0 4	25.9 5	26.6 5	36.4 7	95.3 14
1945	53.0 47	53.7 47	55.6 47	58.3 47	63.9 47	80.8 47	97.9 48	122.0 47	139.0 48	156.0 42
1946	30.0 27	31.3 26	31.7 26	33.3 26	34.8 25	37.1 22	40.1 22	39.8 18	50.6 19	83.2 9
1947	33.0 36	33.7 35	35.0 30	36.5 31	38.6 32	45.6 30	54.8 33	69.7 35	77.9 34	133.0 37
1948	31.0 28	31.7 27	32.0 27	33.8 27	35.3 26	37.0 21	40.6 23	44.9 22	55.5 21	142.0 39
1949	24.0 15	24.7 13	26.3 15	28.4 17	30.1 15	30.9 13	31.5 10	31.7 9	34.5 5	78.3 6
1950	28.0 22	28.3 21	29.0 21	30.2 21	34.0 22	36.2 20	39.6 21	41.6 20	57.2 24	126.0 35
1951	41.0 43	43.7 42	44.0 42	51.2 45	55.1 43	67.3 42	83.6 44	101.0 44	105.0 40	182.0 47
1952	45.0 46	47.3 44	47.6 43	49.2 42	51.7 40	56.7 39	79.9 42	80.1 40	112.0 42	189.0 48
1953	26.0 18	26.3 18	26.6 17	26.9 13	27.3 11	29.1 11	32.7 11	35.0 11	42.2 11	97.0 16
1954	23.0 12	24.3 12	25.1 12	25.8 12	29.0 13	30.6 12	35.3 16	38.8 16	46.3 15	86.2 10
1955	19.0 6	19.3 6	20.1 6	21.0 6	22.5 6	28.8 10	34.8 15	46.3 23	84.1 35	127.0 32
1956	32.0 33	32.7 29	35.3 31	38.7 34	40.4 33	54.7 37	57.2 35	58.6 31	68.0 29	116.0 28
1957	21.0 9	21.7 9	22.3 8	22.9 8	24.4 8	25.3 7	26.0 6	27.5 6	37.7 3	118.0 29
1958	29.0 25	29.0 22	29.9 22	30.6 22	33.6 21	40.5 27	44.9 26	47.0 24	60.3 27	113.0 27
1959	25.0 16	26.0 16	26.3 13	27.3 14	34.5 24	46.2 32	46.2 28	48.8 26	57.1 23	109.0 25
1960	33.0 37	34.7 36	41.1 40	45.7 39	49.0 39	62.6 41	72.2 40	72.9 37	87.6 37	124.0 34
1961	34.0 38	35.0 38	35.4 33	36.1 29	37.7 29	40.4 26	43.8 24	49.1 27	57.4 25	106.0 22
1962	26.0 19	27.0 19	28.6 20	29.9 20	32.9 20	37.4 23	37.8 19	39.6 17	47.8 18	93.1 13
1963	19.0 7	20.0 7	20.1 7	20.4 5	21.3 5	24.1 5	24.6 4	26.0 3	34.0 4	75.8 5
1964	17.0 3	17.3 2	18.1 3	18.8 2	20.4 2	21.7 2	22.3 2	23.8 2	29.6 2	67.1 3
1965	17.0 4	17.3 3	17.9 1	18.4 1	19.1 1	20.3 1	20.7 1	22.0 1	24.1 1	49.4 4
1966	13.0 1	17.0 1	17.9 2	19.9 3	21.1 4	21.9 3	23.3 3	26.3 4	37.1 8	82.6 7

1-3965.00 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.

LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	14	30	60	90	120	183	ANNUAL
MEAN	29.208	30.758	32.358	34.421	37.464	43.573	49.064	55.617	66.958	113.891
VARIANCE	80.722	90.440	102.609	127.025	158.473	294.788	453.934	716.917	914.270	1026.732
STD DEV	8.985	9.510	10.130	11.271	12.589	17.169	21.306	26.775	30.237	32.043
SKEWNESS	.819	.793	.684	.705	.673	.794	.806	.992	.760	.451
SE OF SKEW	.343	.343	.343	.343	.343	.343	.343	.343	.343	.343
SER CORR	.154	.171	.143	.151	.186	.151	.125	.107	.049	.214
C OF VAR	.308	.309	.313	.327	.336	.394	.434	.481	.452	.281

LOGS

MEAN OF	1.446	1.468	1.490	1.515	1.550	1.608	1.652	1.699	1.784	2.039
VAR OF	.017	.017	.018	.020	.021	.028	.034	.040	.037	.016
STD DEV OF	.132	.131	.135	.140	.144	.167	.184	.200	.193	.125
SKEW OF	-.072	.079	.025	.081	.061	.161	.168	.232	.123	-.311
SE OF SKEW OF	.343	.343	.343	.343	.343	.343	.343	.343	.343	.343
SER CORR OF	.199	.201	.170	.181	.227	.201	.195	.163	.115	.245
C OF VAR OF	.091	.090	.090	.092	.093	.104	.111	.118	.108	.061

TABLE 2B.--DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	13.527	14.795	15.093	15.746	16.639	17.374	17.707	18.567	22.529	52.387
20.00	16.814	17.993	18.581	19.388	20.677	21.951	22.882	24.229	29.752	66.456
10.00	18.855	20.000	20.768	21.697	23.245	24.959	26.346	28.102	34.623	74.986
5.00	21.632	22.765	23.775	24.903	26.817	29.261	31.378	33.832	41.732	86.313
2.00	28.023	29.287	30.835	32.566	35.377	40.103	44.392	49.165	60.235	111.113
1.25	36.114	37.889	40.063	42.850	46.892	55.768	63.863	73.268	88.070	140.035
1.11	41.151	43.447	45.972	49.584	54.437	66.651	77.761	91.185	107.977	156.746
1.04	47.225	50.361	53.266	58.043	63.919	80.970	96.429	116.053	134.721	175.705
1.02	51.575	55.455	58.600	64.328	70.962	92.047	111.127	136.210	155.766	188.540
1.01	55.797	60.514	63.866	70.610	78.000	103.473	126.498	157.779	177.754	200.454

1-3965.00

TABLE 3A.--HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1919	1650.0 4	1080.0 4	713.0 2	485.0 3	381.0 4	265.0 12	203.0 23	171.0 30	184.0 13	137.0 10
1920	735.0 38	625.0 28	545.0 14	480.0 4	412.0 2	322.0 4	265.0 7	226.0 9	195.0 10	155.0 4
1921	835.0 30	497.0 35	382.0 31	341.0 25	288.0 18	237.0 16	222.0 13	220.0 11	215.0 6	138.0 9
1922	1410.0 9	720.0 18	414.0 28	303.0 28	265.0 26	237.0 17	218.0 15	198.0 16	175.0 17	123.0 19
1923	828.0 32	659.0 25	503.0 18	400.0 13	319.0 12	245.0 15	204.0 21	174.0 28	143.0 30	93.4 37
1924	1170.0 16	736.0 16	470.0 22	343.0 24	260.0 27	236.0 18	206.0 19	183.0 20	167.0 20	112.0 24
1925	750.0 37	750.0 15	584.0 9	437.0 7	355.0 6	264.0 13	209.0 18	178.0 25	141.0 34	58.3 76
1926	702.0 40	473.0 38	334.0 39	285.0 34	228.0 35	182.0 35	155.0 37	155.0 33	142.0 32	102.0 31
1927	548.0 47	431.0 41	350.0 37	262.0 35	199.0 40	173.0 38	157.0 36	154.0 34	143.0 31	129.0 17
1928	1240.0 12	761.0 13	514.0 17	373.0 18	355.0 7	345.0 2	294.0 2	256.0 4	234.0 3	213.0 1
1929	785.0 36	486.0 37	353.0 36	287.0 31	239.0 32	206.0 31	202.0 24	183.0 21	167.0 23	109.0 25
1930	524.0 48	342.0 49	256.0 47	192.0 48	168.0 47	149.0 45	135.0 46	132.0 44	117.0 45	81.9 44
1931	987.0 23	796.0 19	403.0 29	248.0 40	181.0 43	155.0 44	144.0 41	141.0 41	121.0 43	84.7 42
1932	626.0 42	371.0 45	300.0 43	219.0 44	168.0 48	127.0 48	105.0 48	98.4 48	84.1 47	58.1 47
1933	950.0 24	604.0 29	363.0 33	289.0 29	269.0 23	226.0 23	203.0 22	179.0 24	164.0 19	131.0 15
1934	1220.0 13	648.0 26	361.0 34	229.0 42	205.0 37	185.0 34	165.0 34	147.0 36	128.0 39	100.0 33
1935	1190.0 14	752.0 14	434.0 26	260.0 36	186.0 42	158.0 42	143.0 42	146.0 39	137.0 36	109.0 26
1936	1960.0 2	1420.0 1	866.0 1	707.0 1	535.0 1	373.0 1	284.0 4	256.0 5	215.0 7	135.0 11
1937	828.0 33	413.0 42	287.0 45	251.0 39	205.0 38	176.0 36	162.0 35	163.0 32	151.0 27	101.0 32
1938	1390.0 10	889.0 10	518.0 16	346.0 23	235.0 33	174.0 37	167.0 33	147.0 37	140.0 35	129.0 16
1939	931.0 28	571.0 30	401.0 30	286.0 32	266.0 25	259.0 14	247.0 12	216.0 13	194.0 11	126.0 18
1940	2740.0 1	1160.0 2	683.0 3	410.0 12	350.0 9	286.0 7	275.0 5	238.0 7	181.0 14	117.0 21
1941	608.0 43	361.0 48	254.0 48	219.0 43	201.0 39	163.0 40	146.0 40	151.0 35	141.0 33	93.0 38
1942	1030.0 20	693.0 22	562.0 11	453.0 6	299.0 16	224.0 24	176.0 31	146.0 38	135.0 37	104.0 28
1943	1170.0 17	855.0 11	572.0 10	362.0 21	260.0 28	236.0 19	220.0 14	217.0 12	190.0 12	140.0 7
1944	958.0 25	463.0 39	372.0 32	285.0 33	256.0 29	233.0 21	205.0 20	182.0 23	149.0 28	90.6 34
1945	1020.0 22	775.0 12	616.0 7	428.0 8	310.0 14	223.0 25	216.0 16	199.0 15	198.0 8	141.0 6
1946	953.0 26	519.0 33	342.0 38	288.0 30	226.0 36	214.0 26	180.0 30	171.0 29	152.0 25	119.0 20
1947	830.0 31	508.0 34	356.0 35	260.0 37	253.0 30	207.0 29	202.0 25	183.0 22	151.0 26	103.0 29
1948	1010.0 21	670.0 24	474.0 21	331.0 26	306.0 15	280.0 11	264.0 8	243.0 6	195.0 9	134.0 13
1949	1440.0 6	1100.0 3	651.0 5	535.0 2	384.0 3	297.0 6	248.0 11	224.0 10	178.0 15	109.0 27
1950	658.0 41	388.0 44	316.0 40	247.0 41	198.0 41	167.0 39	152.0 39	144.0 40	123.0 40	83.7 43
1951	1430.0 7	946.0 7	670.0 4	462.0 5	343.0 10	282.0 9	263.0 9	237.0 8	218.0 5	152.0 5
1952	1520.0 5	912.0 9	553.0 12	425.0 9	362.0 5	324.0 3	299.0 1	280.0 1	272.0 1	207.0 2
1953	1430.0 8	942.0 8	538.0 15	392.0 15	342.0 11	285.0 8	272.0 6	263.0 3	258.0 2	157.0 3
1954	446.0 49	382.0 45	267.0 46	197.0 47	172.0 46	143.0 46	140.0 44	125.0 46	111.0 46	75.4 46
1955	1840.0 3	971.0 5	614.0 8	420.0 10	252.0 31	156.0 43	135.0 45	133.0 43	121.0 41	98.4 35
1956	1310.0 11	968.0 6	640.0 6	393.0 14	282.0 20	227.0 22	214.0 17	193.0 18	172.0 18	133.0 14
1957	936.0 27	724.0 17	546.0 13	385.0 16	281.0 21	209.0 28	189.0 28	176.0 26	158.0 22	103.0 30
1958	1180.0 15	702.0 20	509.0 19	414.0 11	351.0 8	309.0 5	287.0 3	264.0 2	230.0 4	138.0 8
1959	792.0 35	437.0 40	252.0 49	205.0 46	177.0 44	159.0 41	143.0 43	131.0 45	117.0 44	87.1 41
1960	720.0 39	636.0 27	462.0 23	372.0 19	267.0 24	206.0 30	194.0 27	196.0 17	176.0 16	135.0 17
1961	910.0 29	682.0 23	493.0 20	375.0 17	318.0 13	280.0 10	250.0 10	210.0 14	164.0 21	116.0 22
1962	1130.0 18	700.0 21	431.0 27	310.0 27	270.0 22	234.0 20	186.0 29	167.0 31	133.0 38	87.2 40
1963	571.0 45	495.0 36	436.0 25	365.0 20	285.0 19	187.0 33	154.0 38	135.0 42	121.0 42	80.0 45
1964	580.0 44	403.0 43	300.0 44	256.0 38	228.0 34	198.0 32	175.0 32	176.0 27	144.0 29	00.2 30
1965	1090.0 19	534.0 32	307.0 42	182.0 49	131.0 49	102.0 49	92.2 49	80.6 49	69.3 49	46.2 49
1966	553.0 46	368.0 47	309.0 41	218.0 45	176.0 45	128.0 47	117.0 47	105.0 47	83.6 48	55.3 48
1967	818.0 34	539.0 31	443.0 24	353.0 22	289.0 17	214.0 27	199.0 26	183.0 19	153.0 24	115.0 23

1-3965.00 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.
HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	1040.449	668.714	455.347	338.061	271.184	221.775	197.616	181.143	160.061	113.885
VARIANCE	182804.062	57198.102	19542.078	10629.027	5957.961	3676.113	2730.849	2096.905	1824.286	1030.397
STD DEV	427.556	239.161	139.793	103.097	77.188	60.631	52.258	45.792	42.712	32.100
SKEWNESS	1.570	.878	.609	.959	.798	.354	.189	.194	.442	.696
SE OF SKEW	.340	.340	.340	.340	.340	.340	.340	.340	.340	.340
SER CORR	-.144	-.148	-.114	-.075	-.015	.082	.141	.164	.252	.274
C OF VAR	.411	.358	.307	.305	.285	.273	.264	.253	.267	.282

LOGS

MEAN OF	2.986	2.799	2.639	2.510	2.416	2.329	2.280	2.244	2.189	2.039
VAR OF	.027	.023	.018	.017	.015	.015	.014	.013	.014	.016
STD DEV OF	.164	.151	.133	.129	.123	.122	.120	.115	.120	.127
SKEW OF	.261	.111	.001	.073	-.074	-.308	-.398	-.526	-.485	-.542
SE OF SKEW OF	.340	.340	.340	.340	.340	.340	.340	.340	.340	.340
SER CORR OF	-.153	-.170	-.120	-.026	.050	.153	.182	.190	.265	.310
C OF VAR OF	.055	.054	.050	.051	.051	.053	.053	.051	.055	.062

TABLE 3B.--DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	431.572	287.851	213.422	164.686	133.107	104.057	92.557	85.401	73.554	49.563
1.05	534.652	358.832	262.905	199.721	162.916	131.204	117.518	109.171	94.506	65.030
1.11	602.836	404.533	293.823	221.647	181.202	147.599	132.473	123.232	107.015	74.336
1.25	701.032	468.778	336.176	251.763	205.857	169.311	152.105	141.444	123.351	86.532
2.00	952.002	625.780	434.986	322.498	261.759	216.650	194.133	179.356	157.858	112.336
5.00	1323.294	842.992	562.892	415.226	331.210	271.610	241.433	220.054	195.725	140.507
10.00	1586.865	988.694	644.106	474.847	373.834	303.273	267.906	241.849	216.388	155.738
25.00	1940.153	1175.201	743.686	548.750	424.728	339.129	297.174	265.083	238.746	172.057
50.00	2218.167	1316.026	816.068	603.020	460.865	363.373	316.529	279.934	253.231	182.522
100.00	2508.990	1458.579	887.183	656.790	495.725	385.856	334.162	293.100	266.208	191.816

TABLE 4.--STATISTICS OF MONTHLY MEANS, 1919-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1919-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	66.39	48.10	2.541	.7244	4.850	.533	1.745	.2480	.6199	.1421	7.397	.717
NOV	101.0	66.89	1.383	.6625	7.375	.666	1.918	.2779	.1195	.1449	8.129	.692
DEC	118.7	66.02	.9536	.5563	8.670	.655	2.012	.2340	.1878	.1163	8.530	.657
JAN	124.5	61.87	1.039	.4971	9.093	.616	2.044	.2164	-.1162	.1059	8.664	.656
FEB	142.1	56.09	.6189	.3947	10.38	.250	2.118	.1790	-.3004	.0845	8.979	.253
MAR	204.0	73.11	1.148	.3585	14.90	-.045	2.284	.1503	.0326	.0658	9.682	-.014
APR	181.0	70.44	.3648	.3892	13.22	.487	2.224	.1773	-.2098	.0798	9.426	.499
MAY	127.8	50.32	.6304	.3938	9.334	.543	2.073	.1767	-.2405	.0852	8.786	.592
JUNE	80.84	37.00	1.187	.4577	5.905	.646	1.868	.1852	.2919	.0991	7.918	.660
JULY	80.32	61.70	1.594	.7682	5.867	.480	1.805	.2858	.5634	.1584	7.651	.655
AUG	76.45	64.80	1.872	.8476	5.585	.562	1.771	.2970	.7180	.1677	7.509	.640
SEPT	65.95	46.21	1.170	.7007	4.818	.641	1.729	.2743	.5356	.1587	7.328	.758

1-3970.00 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.

Location.--Lat 40°34'21", long 74°52'10", at downstream side of highway bridge at Stanton railroad station.

Drainage area.--147 sq mi.

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 DISCHARGE

CLASS	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					
YEAR	NUMBER OF DAYS IN CLASS																																		CFS DAYS					
1934										2	21	22	6	12	41	68	34	43	32	29	19	8	7	4	5	4		2	2	1		1	1	2	101913.0					
1935										7	48	30	5	24	25	39	24	31	28	37	27	8	6	6	5	4	3	4	3					1	94528.0					
1936										2	7	17	18	32	26	38	26	45	34	41	31	16	7	8	7	4	3	1	2						87150.0					
1920										1	7	10	9	39	71	25	40	35	30	21	16	20	9	22	8	1			1		1				112517.0					
1921										2	2	24	25	21	24	18	32	20	18	36	27	49	24	13	10	4	5	7	3	1						87910.0				
1922										2	4	8	15	27	49	35	23	35	32	19	29	17	15	19	7	10	2	7	5	2	2					75940.0				
1923										1	18	20	49	24	35	27	16	24	20	58	14	19	7	7	3	7	4	2	6	1	1		1			64607.0				
1924										1	5	13	35	19	17	22	10	18	12	18	33	30	35	38	16	10	14	4	5	4	3	3		1		103201.0				
1925											7	45	75	33	25	31	23	18	16	11	17	13	9	15	7	4	6	3	3	3						83320.0				
1926										1	12	15	19	24	38	50	33	36	55	30	11	12	6	5	6	3	3		5		1					78709.0				
1927											6	14	22	39	50	50	48	49	29	19	11	8	7	6	4	1	2									92982.0				
1928												4	18	20	58	69	51	45	28	23	14	12	4	4	3	3	1	5	3							149155.0				
1929											2	16	13	21	18	52	66	46	19	12	29	11	25	10	9	6	1	1	3	1	3		1			80273.0				
1930										1	3	30	18	20	14	22	14	39	47	36	36	38	24	10	5	12	1	1	2			1					69320.0			
1931										2	3	15	28	20	34	30	35	53	48	25	20	16	13	6	7	4		4	1	1							57551.0			
1932										17	25	43	41	40	31	23	28	34	27	19	8	7	8	6	5		1	2								60929.0				
1913										6	5	26	17	12	12	27	36	36	31	36	29	24	15	19	10	2	6	2	4	2		2	1				107020.0			
1934										1	1	5	17	18	51	48	52	35	26	33	21	19	14	7	6	3	5	1					2			73859.0				
1935											2	12	28	35	10	34	46	48	42	38	25	20	6	5	6	3	1	1	1		1					82537.0				
1936											8	28	44	22	17	18	33	28	18	22	24	15	17	20	13	6	10	8	5	2	3		3	1	1		108507.0			
1917											14	50	35	21	20	28	18	27	41	35	23	18	8	12	5	5		2	1	1	1						78084.0			
1918												10	6	9	24	51	38	49	46	47	25	18	11	8	6	6	1	1	4	1	1	2		1			102077.0			
1939										1	1	3	8	9	25	24	16	15	11	17	41	23	32	21	14	26	24	3	8	6	7	6	3		1			101668.0		
1940											13	6	18	21	30	38	31	24	21	19	16	23	18	17	18	19	9	10	4	3	1	2	2	2		1		96920.0		
1941											8	18	19	21	20	19	25	30	40	28	49	27	20	22	4	3	3	4		2							71011.0			
1942										1	3	23	25	14	27	26	14	54	45	21	21	26	16	13	7	5	4	7	2	6		1					79572.0			
1943												12	20	14	15	7	14	25	43	54	54	32	30	14	7	7	5	3	2	1			1				100555.0			
1944											2	23	29	15	26	17	28	20	42	33	12	22	18	26	14	8	14	7	2	1	1	1	3	2				76049.0		
1945											31	7	5	3	1	9	34	51	34	42	32	20	29	20	14	13	5	8	2	1	1	2				1		109661.0		
1946												8	10	12	25	59	39	35	37	37	24	27	17	16	5	5	3	2	1	2							97448.0			
1947												3	46	43	32	42	30	19	33	39	29	14	11	7	4	4	6	1	2								80259.0			
1948											1	5	31	19	26	31	45	28	24	20	25	34	21	18	14	9	8	5		1			1				109281.0			
1949											2	27	18	15	53	38	23	25	11	10	33	27	19	22	17	8	7	2	2	3				1	2			83079.0		
1950											12	51	24	44	25	21	33	33	26	23	29	12	14	8	3	3	2	1		1								59329.0		
1951											6	26	14	17	17	39	30	25	33	33	26	35	25	11	5	5	6	2	1	4	2	2	1					111753.0		
1952												4	15	24	36	23	12	14	29	42	51	32	27	19	11	6	6	9	2	1	1	1			1			151207.0		
1953											20	17	15	41	39	11	13	5	5	19	29	28	43	20	21	13	6	9	5	3	1	1	1					111050.0		
1954											2	38	28	35	31	48	22	33	35	29	21	12	13	7	2	3	3		3									60388.0		
1955											2	1	12	16	15	19	22	37	18	36	33	27	44	24	19	15	4	6	3	3		2	1	1			1	1		83101.0
1956												5	8	19	35	28	46	20	25	26	35	37	25	21	12	8	6	5		2		1	1		1			99725.0		
1957											5	30	23	18	9	12	31	7	13	31	34	34	33	22	19	12	9	8	5	4	3		1		2			69473.0		
1958											1	5	9	32	24	19	26	18	18	22	18	29	16	19	22	24	14	15	11	7	9	3	1	1		1			94287.0	
1959												14	27	28	27	21	31	70	40	27	27	21	11	5	6		4	3		3								58260.0		
1960												3	14	24	30	23	36	26	27	48	37	38	21	15	7	3	5	1	3	3	1	1						90863.0		
1961												2	13	33	24	47	81	32	13	14	11	15	24	17	15	8	7	7		1								85223.0		
1962												6	25	41	40	40	25	22	48	20	11	19	16	12	17	6	4	5	1	2	1				1			61436.0		
1963												2	10	25	22	18	17	28	21	24	53	56	27	16	7	5	10	5	9	5	3		1		1			57405.0		
1964												2	12	17	31	33	25	41	32	13	28	35	16	23	18	11	14	5	2	4	1							40866.0		
1965												2	18	17	37	48	50	40	43	45	31	13	12	5	2														76511.0	
1966												8	27	59	57	47	45	25	27	28	19	16	2	1	2	1	1												85223.0	
1967												7	22	56	58	37	24	39	29	14	20	17	13	9	8	4	3													

1-3970.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1904	46.0 32	56.0 37	62.1 37	65.1 36	93.4 42	106.0 42	112.0 37	118.0 33	163.0 36	272.0 35
1905	45.0 31	51.7 33	53.3 30	55.4 27	58.8 24	60.8 20	70.0 20	78.8 21	128.0 29	210.0
1920	53.0 39	67.0 43	70.1 42	83.3 44	116.0 48	138.0 46	150.0 45	192.0 46	197.0 43	294.0 47
1921	28.0 8	34.0 12	40.7 18	44.4 17	49.7 19	53.8 15	55.1 12	66.1 15	80.5 15	182.0 11
1922	40.0 25	41.0 22	52.4 29	62.0 33	69.7 33	74.5 27	76.7 24	99.2 30	121.0 25	225.0 28
1923	29.0 9	32.3 9	34.1 8	36.0 8	43.2 10	46.6 8	47.1 5	49.4 4	73.7 11	203.0 18
1924	34.0 16	39.7 19	44.0 22	46.3 22	50.9 21	64.6 23	78.8 25	91.9 27	101.0 21	286.0 40
1925	50.0 37	51.3 32	54.7 31	62.3 34	70.9 34	83.8 34	114.0 38	134.0 38	144.0 31	228.0 20
1926	44.0 29	49.3 33	52.1 28	56.0 29	64.0 28	77.2 31	84.2 29	97.4 29	128.0 30	274.0 26
1927	73.0 46	74.0 43	76.7 45	82.6 43	102.0 45	147.0 47	165.0 47	168.0 45	199.0 45	339.0 47
1928	69.0 44	70.0 41	98.4 48	100.0 48	110.0 46	114.0 44	117.0 40	140.0 41	192.0 40	284.0 38
1929	40.0 26	48.2 27	49.6 24	54.4 26	59.4 25	67.3 26	100.0 32	121.0 34	145.0 32	236.0 30
1930	29.0 10	30.0 7	39.6 17	42.1 15	45.0 12	46.3 7	48.6 6	54.7 7	60.7 8	127.0 5
1931	29.0 11	39.7 20	41.7 20	44.4 18	46.8 15	49.9 11	52.1 11	56.4 11	78.9 14	150.0 7
1932	25.0 5	28.3 5	29.3 4	30.2 3	35.2 4	37.9 2	41.2 2	49.6 5	73.3 10	108.0 16
1933	44.0 27	46.0 25	55.9 33	57.7 31	66.1 30	81.4 33	108.0 34	153.0 43	193.0 41	247.0 31
1934	36.0 17	45.0 24	51.0 25	54.7 25	74.7 38	78.6 32	111.0 36	127.0 35	181.0 39	246.0 32
1935	47.0 33	55.3 36	56.0 34	57.6 30	61.2 26	88.4 35	102.0 33	149.0 42	145.0 33	284.0 30
1936	39.0 23	42.7 23	43.4 21	44.9 19	48.7 17	56.9 16	61.2 15	63.5 14	84.2 16	219.0 22
1937	59.0 42	59.7 39	61.6 36	62.9 35	66.4 31	98.9 38	109.0 35	114.0 32	150.0 34	274.0 27
1938	90.0 48	92.0 48	95.4 47	98.6 47	113.0 47	162.0 49	192.0 49	245.0 49	284.0 49	337.0 46
1939	20.0 2	23.7 2	28.7 3	31.6 4	44.8 11	52.2 12	55.4 13	57.4 12	63.0 6	176.0 9
1940	37.0 22	61.3 41	72.1 43	74.3 40	83.4 41	112.0 43	137.0 44	134.0 39	176.0 39	288.0 41
1941	28.0 6	35.3 13	35.7 11	36.2 9	38.3 6	41.4 4	51.1 9	56.0 10	71.7 9	142.0 6
1942	56.0 40	56.7 38	63.4 39	94.6 46	99.3 43	104.0 41	128.0 47	159.0 44	259.0 47	316.0 43
1943	45.0 30	46.3 26	48.0 23	50.6 23	55.7 23	63.1 22	73.1 23	90.5 26	127.0 28	219.0 23
1944	29.0 12	30.0 6	32.3 5	33.7 6	34.3 3	40.2 3	46.4 4	47.7 3	68.1 7	201.0 17
1945	97.0 49	99.7 49	103.0 49	106.0 49	117.0 49	149.0 48	185.0 48	242.0 48	280.0 48	333.0 45
1946	56.0 41	60.0 40	61.4 35	67.3 38	72.0 36	76.7 28	81.3 27	82.5 22	112.0 23	191.0 14
1947	44.0 28	55.0 35	64.0 40	65.5 37	73.3 37	90.9 37	114.0 39	139.0 40	163.0 37	282.0 37
1948	66.0 43	66.7 42	68.6 41	70.7 39	71.7 35	77.0 30	85.3 30	95.0 28	125.0 26	320.0 44
1949	36.0 18	36.3 14	38.9 15	45.0 20	47.5 16	49.1 10	50.2 7	50.7 6	57.6 2	153.0 9
1950	49.0 35	49.7 30	51.3 26	55.6 28	63.3 27	66.4 25	72.0 22	74.8 18	102.0 22	255.0 34
1951	74.0 47	78.7 47	79.9 46	85.9 45	100.0 44	122.0 45	155.0 46	193.0 47	196.0 42	369.0 40
1952	70.0 45	71.7 44	73.6 44	75.4 41	78.3 39	88.8 36	132.0 43	132.0 37	194.0 44	367.0 48
1953	36.0 19	36.3 15	37.4 12	39.4 12	39.9 7	43.5 6	52.1 10	57.7 13	74.7 12	183.0 12
1954	37.0 20	37.7 17	38.4 13	39.6 13	49.2 18	58.4 17	65.5 16	76.0 19	88.0 18	177.0 10
1955	22.0 3	23.7 3	36.0 7	35.4 7	36.9 5	53.7 14	65.5 17	89.1 25	224.0 46	279.0 36
1956	48.0 34	48.7 28	55.4 32	61.1 32	69.2 32	99.6 39	98.2 31	104.0 31	126.0 27	220.0 25
1957	23.0 4	24.3 4	25.1 1	27.3 2	29.0 1	30.5 1	32.8 1	36.2 1	50.1 1	219.0 24
1958	40.0 24	40.0 21	41.3 19	41.8 14	50.6 20	65.0 24	79.5 26	85.1 23	113.0 24	215.0 21
1959	37.0 21	37.7 18	39.0 16	43.0 16	65.1 29	76.9 29	81.7 28	85.4 24	94.7 19	196.0 15
1960	52.0 38	53.7 34	62.4 38	76.4 42	81.1 40	104.0 40	120.0 41	128.0 36	157.0 35	236.0 31
1961	50.0 36	50.0 31	51.6 27	52.6 24	55.5 22	61.9 21	69.1 19	78.6 20	96.2 20	210.0 19
1962	31.0 14	32.7 10	35.3 10	38.5 11	46.7 13	60.2 18	70.4 21	72.9 16	86.1 17	183.0 13
1963	12.0 1	17.3 1	25.4 2	25.8 1	30.7 2	41.5 5	44.8 3	47.3 2	59.8 3	121.0 4
1964	28.0 7	31.3 8	32.3 6	33.6 5	40.3 8	47.4 9	50.8 8	55.3 9	62.8 5	114.0 3
1965	30.0 13	33.0 11	34.4 9	37.2 10	42.5 9	53.0 13	56.2 14	55.1 8	62.0 4	82.2 1
1966	34.0 15	37.0 16	38.6 14	45.2 21	46.7 14	60.5 19	67.0 18	74.7 17	77.8 13	107.0 2
MEAN	43.592	47.684	51.706	55.682	63.416	75.975	88.049	101.367	128.610	227.943
VARIANCE	307.495	316.000	344.958	409.151	557.504	982.065	1500.618	2460.743	3648.815	4669.906
STD DEV	17.536	17.776	18.573	20.227	23.612	31.338	38.738	49.606	60.405	68.337
SKEWNESS	1.044	.883	.944	.767	.789	1.004	.914	1.136	.854	.096
SE OF SKEW	.340	.340	.340	.340	.340	.340	.340	.340	.340	.340
SER CORR	.172	.144	.097	.047	.027	-.046	-.057	-.103	-.051	.201
C OF VAR	.402	.373	.359	.363	.372	.412	.440	.489	.470	.300
LOGS										
MEAN OF	1.606	1.650	1.688	1.719	1.774	1.847	1.906	1.959	2.064	2.336
VAR OF	.030	.026	.023	.024	.025	.029	.034	.041	.040	.021
STD DEV OF	.174	.161	.150	.155	.158	.171	.186	.202	.201	.143
SKEW OF	-.250	-.100	.173	.106	.136	.216	.143	.208	.123	-.767
SE OF SKEW OF	.340	.340	.340	.340	.340	.340	.340	.340	.340	.340
SER CORR OF	.182	.147	.107	.078	.056	-.046	-.034	-.059	.008	.350
C OF VAR OF	.108	.097	.089	.090	.089	.093	.097	.103	.097	.061

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	14.785	18.350	22.769	23.500	26.492	29.985	31.170	33.113	41.264	84.199
20.00	20.333	24.019	28.064	29.451	33.184	37.750	40.576	43.551	55.108	118.530
10.00	23.937	27.659	31.488	33.294	37.531	42.899	46.876	50.694	64.521	139.660
5.00	28.990	32.740	36.321	38.710	43.687	50.326	56.024	61.268	78.353	167.566
2.00	41.055	44.903	48.240	51.992	58.936	69.338	79.655	89.548	114.766	226.242
1.25	56.786	61.048	64.978	70.452	80.440	97.465	114.898	133.901	170.359	287.839
1.11	66.666	71.431	76.362	82.874	95.090	117.407	139.963	166.781	210.566	319.388
1.04	78.566	84.238	91.104	98.811	114.076	144.086	173.519	212.290	265.036	351.444
1.02	87.040	93.574	102.356	110.866	128.567	165.035	199.852	249.077	308.205	370.920
1.01	95.209	102.756	113.846	123.087	143.360	186.906	227.315	288.347	353.554	387.437

1-3970.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SOUTH BRANCH PATAN RIVER AT STANTON, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1904	4260.0 5	3250.0 2	1820.0 3	1100.0 6	679.0 15	445.0 29	396.0 25	376.0 25	386.0 12	278.0 13
1905	4210.0 6	2210.0 10	1290.0 14	1030.0 8	738.0 8	500.0 18	510.0 15	446.0 13	380.0 13	259.0 17
1906	1510.0 40	1210.0 36	728.0 41	574.0 36	436.0 39	398.0 34	356.0 34	357.0 28	314.0 28	225.0 29
1920	2320.0 28	1460.0 28	1090.0 21	941.0 12	830.0 5	659.0 6	516.0 14	436.0 16	397.0 11	307.0 3
1921	1320.0 47	1140.0 38	845.0 33	746.0 26	566.0 24	447.0 27	409.0 24	378.0 24	370.0 17	241.0 21
1922	2800.0 20	1320.0 35	760.0 39	560.0 37	482.0 36	434.0 30	391.0 27	346.0 31	310.0 30	208.0 35
1923	2890.0 16	1790.0 18	1330.0 11	921.0 13	722.0 9	512.0 17	414.0 23	361.0 27	291.0 35	177.0 40
1924	2890.0 17	1670.0 20	1100.0 20	811.0 18	622.0 22	593.0 11	520.0 13	466.0 11	444.0 7	282.0 10
1925	2800.0 21	1970.0 11	1560.0 7	1220.0 5	943.0 2	697.0 3	540.0 12	445.0 14	341.0 21	228.0 24
1926	1910.0 36	1370.0 34	838.0 34	698.0 30	553.0 26	390.0 37	315.0 42	318.0 34	301.0 32	216.0 32
1927	1440.0 43	1070.0 42	674.0 44	506.0 44	402.0 42	370.0 39	353.0 35	351.0 30	313.0 29	254.0 19
1928	2480.0 23	1910.0 16	1190.0 17	788.0 19	721.0 10	704.0 2	591.0 4	532.0 5	483.0 4	408.0 2
1929	2470.0 24	1490.0 25	947.0 29	752.0 23	535.0 29	469.0 26	440.0 20	394.0 20	379.0 24	272.0 29
1930	1950.0 33	1140.0 39	765.0 38	526.0 42	430.0 40	354.0 41	328.0 38	316.0 37	277.0 38	190.0 39
1931	1510.0 41	1060.0 40	602.0 45	367.0 46	297.0 48	264.0 48	248.0 45	247.0 46	222.0 45	158.0 44
1932	1570.0 39	950.0 43	734.0 40	517.0 43	388.0 44	279.0 45	232.0 49	214.0 49	174.0 40	112.0 40
1933	3250.0 11	2000.0 12	1150.0 18	737.0 27	644.0 19	519.0 16	458.0 16	397.0 19	369.0 18	203.0 9
1934	3020.0 15	1700.0 19	909.0 31	576.0 39	437.0 38	393.0 36	340.0 36	299.0 40	261.0 40	202.0 36
1935	3500.0 14	1940.0 14	1040.0 24	589.0 35	442.0 37	351.0 42	318.0 41	313.0 39	287.0 36	226.0 27
1936	3960.0 8	2970.0 3	1810.0 4	1540.0 1	1170.0 1	845.0 1	637.0 1	583.0 1	488.0 1	296.0 8
1937	2230.0 32	1020.0 41	717.0 42	610.0 33	494.0 35	411.0 31	373.0 30	356.0 29	328.0 25	216.0 33
1938	3410.0 10	2400.0 8	1320.0 12	835.0 16	552.0 27	398.0 35	387.0 28	342.0 32	294.0 34	280.0 11
1939	2410.0 25	1400.0 32	982.0 27	724.0 28	655.0 16	602.0 9	596.0 3	516.0 6	452.0 5	279.0 12
1940	5920.0 2	2450.0 7	1400.0 8	852.0 15	680.0 14	604.0 8	567.0 6	503.0 8	377.0 16	237.0 22
1941	1410.0 44	923.0 45	564.0 46	453.0 45	396.0 43	350.0 43	319.0 40	324.0 36	297.0 32	195.0 37
1942	2250.0 31	1540.0 24	1260.0 15	1060.0 7	691.0 13	471.0 25	367.0 32	301.0 39	295.0 37	218.0 21
1943	2370.0 27	1800.0 17	1220.0 16	751.0 24	536.0 31	481.0 20	456.0 17	436.0 15	379.0 14	275.0 14
1944	2280.0 29	1180.0 37	810.0 35	602.0 34	528.0 32	497.0 19	431.0 21	384.0 23	317.0 27	208.0 34
1945	5650.0 3	2970.0 4	1990.0 2	1250.0 4	824.0 6	521.0 15	455.0 18	420.0 17	427.0 10	300.0 6
1946	2880.0 18	1600.0 28	938.0 30	675.0 31	513.0 33	472.0 24	392.0 26	371.0 26	337.0 22	267.0 16
1947	1380.0 46	928.0 44	778.0 37	558.0 38	535.0 30	445.0 28	426.0 22	391.0 21	325.0 26	220.0 30
1948	3060.0 13	1920.0 15	1310.0 13	856.0 14	625.0 21	600.0 10	586.0 5	538.0 3	441.0 8	290.0 7
1949	4000.0 7	2860.0 5	1640.0 6	1260.0 3	882.0 3	667.0 5	547.0 10	485.0 10	379.0 15	228.0 25
1950	1500.0 42	886.0 46	704.0 43	534.0 40	406.0 41	361.0 40	322.0 39	298.0 41	250.0 42	162.0 42
1951	2840.0 19	2010.0 11	1400.0 9	949.0 10	697.0 12	587.0 13	548.0 9	487.0 9	445.0 6	306.0 4
1952	4310.0 4	2220.0 9	1390.0 10	946.0 11	745.0 7	672.0 4	613.0 2	580.0 2	579.0 1	413.0 1
1953	2730.0 22	1650.0 21	989.0 26	784.0 20	634.0 20	578.0 14	544.0 11	533.0 4	506.0 2	304.0 5
1954	1040.0 49	630.0 49	455.0 48	350.0 48	296.0 49	245.0 49	248.0 46	221.0 48	202.0 48	138.0 47
1955	8060.0 1	3800.0 1	2430.0 1	1510.0 2	855.0 4	480.0 21	333.0 37	273.0 42	261.0 41	228.0 26
1956	3470.0 9	2680.0 6	1670.0 5	979.0 9	647.0 18	477.0 22	444.0 19	403.0 18	365.0 19	272.0 15
1957	1760.0 37	1450.0 29	1080.0 22	750.0 25	551.0 28	403.0 33	364.0 33	334.0 35	302.0 31	190.0 38
1958	3110.0 12	1640.0 22	1080.0 23	784.0 21	655.0 17	591.0 12	558.0 7	508.0 7	436.0 9	298.0 18
1959	1270.0 48	721.0 48	423.0 50	333.0 49	305.0 47	267.0 47	249.0 44	235.0 47	219.0 46	160.0 43
1960	1930.0 34	1420.0 31	966.0 28	708.0 29	497.0 34	407.0 32	376.0 29	388.0 22	336.0 23	248.0 20
1961	1930.0 35	1500.0 25	1120.0 19	821.0 17	706.0 11	624.0 7	553.0 8	460.0 12	347.0 20	232.0 23
1962	2380.0 26	1460.0 27	858.0 32	662.0 32	554.0 25	474.0 23	372.0 31	338.0 31	265.0 39	168.0 41
1963	2250.0 30	1450.0 30	1010.0 25	778.0 22	586.0 23	375.0 38	310.0 43	268.0 43	242.0 43	157.0 45
1964	816.0 50	579.0 50	458.0 47	360.0 47	333.0 46	272.0 46	239.0 47	247.0 44	209.0 47	136.0 48
1965	1400.0 45	755.0 47	452.0 49	274.0 50	204.0 50	183.0 50	166.0 50	144.0 50	123.0 50	100.0 50
1966	553.0 51	358.0 51	217.0 51	198.0 51	191.0 51	168.0 51	150.0 51	136.0 51	123.0 51	95.0 51
1967	1710.0 38	1380.0 33	798.0 36	528.0 41	376.0 45	284.0 44	239.0 48	247.0 45	228.0 44	155.0 46

1-3970.00 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	2625.863	1629.961	1051.196	748.882	572.157	462.549	408.667	373.647	329.647	229.922
VARIANCE	1856944.000	519536.000	188148.375	84318.875	36680.840	20559.500	14909.754	11232.930	9086.605	4472.086
STD DEV	1362.697	720.788	433.760	290.377	191.522	143.386	122.105	105.986	95.324	66.874
SKEWNESS	1.682	.873	.797	.672	.464	.203	-.022	-.048	.156	.331
SE OF SKEW	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333
SER CORR	.010	.032	.039	.019	.015	.161	.259	.306	.317	.296
C OF VAR	.519	.442	.413	.388	.335	.310	.299	.284	.289	.291

LOGS

MEAN OF	3.368	3.169	2.983	2.840	2.731	2.642	2.590	2.553	2.498	2.342
VAR OF	.047	.041	.037	.033	.025	.022	.021	.019	.019	.018
STD DEV OF	.217	.202	.194	.181	.158	.148	.144	.138	.139	.136
SKEW OF	-.220	-.518	-.729	-.636	-.734	-.738	-.779	-.958	-.905	-.684
SE OF SKEW OF	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333
SER CORR OF	.079	.065	.120	.172	.200	.316	.394	.418	.418	.388
C OF VAR OF	.064	.064	.065	.064	.058	.056	.056	.054	.056	.058

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	674.769	420.088	270.911	217.282	190.978	166.793	149.938	137.705	122.209	91.151
1.05	996.434	644.751	426.511	326.220	277.040	236.066	211.748	197.038	173.769	124.552
1.11	1217.697	796.681	530.738	397.593	331.377	279.016	249.827	233.187	205.226	144.876
1.25	1542.025	1013.751	677.195	496.712	404.547	336.104	300.125	280.215	246.282	171.588
2.00	2374.275	1536.394	1014.746	723.231	563.157	457.532	405.815	375.457	330.191	227.743
5.00	3562.337	2199.889	1408.844	989.389	736.202	587.219	516.475	468.425	413.669	287.431
10.00	4359.609	2597.495	1625.958	1138.649	827.458	654.658	572.963	512.563	454.128	318.604
25.00	5366.883	3053.256	1857.329	1300.984	922.131	724.011	630.173	554.525	493.307	350.910
50.00	6113.273	3361.661	2003.412	1405.747	980.692	766.618	664.815	578.412	516.018	370.945
100.00	6854.422	3646.172	2130.754	1498.844	1031.035	803.074	694.114	597.605	534.545	388.238

STATISTICS OF MONTHLY MEANS, 1904-06; 1920-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1904-06; 1920-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	143.2	126.1	2.531	.8803	5.181	.465d	2.045	.2964	.5853	.1449	7.555	.660d
NOV	201.1	143.0	1.475	.7109	7.276	.416	2.203	.3015	.0318	.1369	8.139	.575
DEC	243.4	137.3	.6470	.5641	8.806	.604	2.314	.2606	-.1297	.1126	8.548	.640
JAN	260.7	140.5	.9111	.5390	9.430	.618	2.351	.2501	-.4016	.1064	8.685	.695
FEB	303.4	143.0	1.041	.4714	10.98	.219	2.433	.2184	-.5771	.0898	8.987	.343
MAR	416.9	168.0	1.145	.4029	15.08	.156	2.586	.1775	-.3739	.0686	9.553	.320
APR	356.9	154.7	.4559	.4334	12.91	.537	2.510	.2017	-.4227	.0804	9.271	.617
MAY	242.9	121.6	1.194	.5005	8.789	.542	2.336	.2087	.0915	.0894	8.630	.583
JUN	156.2	87.09	1.416	.5577	5.650	.693	2.138	.2133	.5663	.0998	7.900	.717
JUL	152.1	126.0	2.151	.8281	5.504	.447	2.075	.2930	.5814	.1412	7.667	.596
AUG	154.1	148.0	2.615	.9604	5.575	.293	2.057	.3206	.5874	.1558	7.601	.510
SEP	133.2	99.55	1.325	.7475	4.818	.409	2.020	.2974	.3943	.1472	7.464	.611

d Serial correlation coefficient computed from non-continuous arrays of monthly mean discharges.

1-3975.00 WALNUT BROOK NEAR FLEMINGTON, N. J.

Location.--Lat 40°30'55", long 74°52'52", 1.2 miles northwest of Flemington.

Drainage area.--2.24 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																			CFS DAYS	
1937			16		21		28		39	26	10	15		4	12	14	16	38	26	20	15	17	17	7	7	5	6	2	4							986.4	
1938							12		30	5	5	14	10	26	28	19	46	34	49	19	20	10	6	10	9	3	4			2	2	2				1421.6	
1939		45	23	10	1	4		5	18	6	5	5	2	26	19	32	17	21	28	16	16	16	11	14	2	6	7	3	4	1	1					1452.8	
1940		12	22	11		21		29	74	14	13	12	5	18	8	9	17	14	12	13	12	16	10	7	3	5	3	1	1	4						1054.4	
1941		1	12	5		7		11	29	25	14	22	12	23	34	26	29	20	20	26	14	9	9	3	4	1	6	2	1							924.1	
1942		5	8	8		11		19	47	37	18	18	7	14	25	14	25	19	10	13	13	15	8	9	5	4	6	3			1					1035.8	
1943		8	3	3		1		20	15	11	7	7	6	16	25	33	51	41	14	21	17	19	16	10	5	5			1			1				1271.7	
1944		38	15	10		4		17	27	9	8	12	12	26	30	13	30	20	15	18	17	16	8	4	3	4	1	2	6			1				1123.5	
1945				13	1	5		8	27	10	6	20	6	17	29	23	42	40	26	21	15	14	13	9	4	8	2	2			2					1280.2	
1946							1		17	21	14	36	13	35	45	29	23	18	23	13	28	15	11	5	11	1	1	2	1	1	1						1137.3
1947									30	58	21	22	5	12	21	21	25	28	39	19	17	17	10	16	2	1	4	2								1017.2	
1948				5		4		14	23	13	10	12	7	23	29	24	34	24	21	22	28	23	11	13	7	6	4					1				1299.0	
1949		9	6		9		17		70	17	5	11	5	10	10	8	20	21	27	26	26	17	11	7	5	2	1	3	1			1				1092.1	
1950			5		9	1	21		11	17	9	2	9	2	5	13	12	43	20	21	26	16	10	10	4	3	2	2			2						802.8
1951							14		37	18	8	13	14	28	34	19	28	19	22	37	17	19	12	11	3	1	5	2	2	2							1259.8
1952									25	33	10	18	3	21	10	9	17	22	31	35	32	29	19	13	11	7	2	4	2	2	2	2	1				1918.3
1953				4		9		14	1	52	29	11	14	3	15	9	2	25	28	34	28	23	17	15	10	6	5	2	4	4	1						1405.4
1954		22	6	14	4	18		18	17	14	15	11	16	12	21	28	32	25	21	30	15	8	7	4	2	2	2	1								736.2	
1955		33	4	1		2		4	14	31	22	12	13	16	15	18	24	27	37	33	19	10	10	6	5	2	1	1	2	1	2					1192.0	
1956		4	11	9		3		11	37	17	24	5	14	21	18	15	21	18	23	28	24	18	13	7	9	6	4	4	1	1						1297.2	
1957		87	1	7		2		11	29	10	5	7	11	7	8	20	27	21	28	29	13	19	13	1	6	2	3	1	1			1				959.4	
1958		33	3	16		18		12	29	19	12	8	9	16	16	19	16	15	15	19	12	26	15	7	8	4	8	7	1	1						1370.8	
1959		5		3	9	3		18	26	23	13	12	15	28	28	24	29	23	27	22	19	6	11	11	4	3	1	1	1							898.8	
1960			9		2	5	5	4	3	17	26	14	16	16	8	17	18	25	35	23	20	31	23	17	7	7	4	7	3	2	2						1135.4
1961				1	1		1	9	9	15	19	10	10	18	12	18	32	38	35	21	23	24	26	13	11	4	1	7	4	3						1394.6	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	302	9131	100.0	9	0.20	483	7130	78.1	18	2.5	616	3007	32.9	27	29	62	135	1.4
1	0.01	117	8829	96.7	10	0.30	284	6647	72.8	19	3.2	583	2386	26.1	28	39	40	73	.7
2	0.02	149	8712	95.4	11	0.40	341	6363	69.7	20	4.3	477	1803	19.7	29	51	19	33	.3
3	0.03	21	8563	93.8	12	0.50	220	6022	66.0	21	5.6	404	1326	14.5	30	67	12	14	.1
4	0.04	156	8542	93.5	13	0.60	456	5802	63.5	22	7.4	276	922	10.1	31	89	2	2	.0
5	0.05	7	8386	91.8	14	0.80	525	5346	58.5	23	9.7	206	666	7.1	32				
6	0.06	345	8379	91.8	15	1.10	490	4821	52.8	24	13.0	130	440	4.8	33				
7	0.09	28	8034	88.0	16	1.40	727	4331	47.4	25	17.0	94	310	3.4	34				
8	0.10	876	8006	87.7	17	1.90	602	3604	39.5	26	22.0	81	216	2.4					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

WALNUT BROOK NEAR FLEMINGTON, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1936	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.1 2	2.3 4
1937	0.0 2	0.0 2	0.0 2	0.1 16	0.1 15	0.5 23	0.5 20	0.6 18	1.1 15	3.0 11
1938	0.1 20	0.1 20	0.1 20	0.1 17	0.1 16	1.1 25	1.4 24	2.2 24	3.1 25	4.8 25
1939	0.0 3	0.0 3	0.0 3	0.0 3	0.0 2	0.0 2	0.0 2	0.0 2	0.1 3	2.1 1
1940	0.0 4	0.0 4	0.0 4	0.0 4	0.0 3	0.0 3	0.1 7	0.2 12	0.3 11	1.3 19
1941	0.0 5	0.0 5	0.0 5	0.0 5	0.0 4	0.0 4	0.0 3	0.1 5	0.2 8	0.4 6
1942	0.0 6	0.0 6	0.0 6	0.0 6	0.1 18	0.1 17	0.1 8	0.3 15	0.7 19	1.7 22
1943	0.0 7	0.0 7	0.0 7	0.0 7	0.0 5	0.0 5	0.1 9	0.1 6	0.4 12	1.2 16
1944	0.0 9	0.0 8	0.0 8	0.0 8	0.0 6	0.0 6	0.0 4	0.0 3	0.1 4	0.3 5
1945	0.1 21	0.2 25	0.2 25	0.4 25	0.5 25	1.0 24	1.6 25	2.2 25	2.4 23	3.7 20
1946	0.1 22	0.1 21	0.1 21	0.2 24	0.2 24	0.3 22	0.3 16	0.3 9	0.6 9	2.2 2
1947	0.0 9	0.0 9	0.0 9	0.1 19	0.1 19	0.1 10	0.2 13	0.7 20	1.3 20	3.3 16
1948	0.1 23	0.1 22	0.1 22	0.1 20	0.1 19	0.1 11	0.3 17	0.5 16	0.9 13	4.1 22
1949	0.0 10	0.0 10	0.0 10	0.0 7	0.1 20	0.1 12	0.1 7	0.2 5	0.2 4	2.3 3
1950	0.0 11	0.0 11	0.0 11	0.1 21	0.1 21	0.1 13	0.1 8	0.2 6	0.6 10	3.2 13
1951	0.1 24	0.1 23	0.1 23	0.1 22	0.1 22	0.2 19	0.4 18	0.8 23	1.1 14	4.3 23
1952	0.1 25	0.1 24	0.1 24	0.1 23	0.1 23	0.2 20	0.8 23	0.7 21	1.2 17	4.6 24
1953	0.0 12	0.0 12	0.0 12	0.0 8	0.0 7	0.1 14	0.2 14	0.3 10	0.5 7	2.6 6
1954	0.0 13	0.0 13	0.0 13	0.0 9	0.0 8	0.0 5	0.1 9	0.4 13	0.7 11	2.6 7
1955	0.0 14	0.0 14	0.0 14	0.0 10	0.0 9	0.1 15	0.2 10	0.8 22	2.4 24	3.8 21
1956	0.0 15	0.0 15	0.0 15	0.0 11	0.0 10	0.1 16	0.2 11	0.2 7	0.7 12	2.8 10
1957	0.0 16	0.0 16	0.0 16	0.0 12	0.0 11	0.0 6	0.0 4	0.0 3	0.0 1	3.2 14
1958	0.0 17	0.0 17	0.0 17	0.0 13	0.1 12	0.2 17	0.6 22	0.5 17	1.5 21	3.2 15
1959	0.0 18	0.0 18	0.0 18	0.0 14	0.1 13	0.3 21	0.5 21	0.4 14	0.6 8	2.6 8
1960	0.0 19	0.0 19	0.0 19	0.0 15	0.1 14	0.2 18	0.4 19	0.5 15	1.3 18	3.6 18

1-3975.00 WALNUT BROOK NEAR FLEMINGTON, N. J.

LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1 ^a	3 ^a	7 ^a	14 [†]	30 [†]	60 [†]	90 [†]	120 [†]	183 [†]	ANNUAL
MEAN				.140	.136	.263	.410	.600	1.054	3.188
VARIANCE				.009	.012	.088	.167	.311	.583	.573
STD DEV				.097	.108	.297	.409	.558	.763	.757
SKEWNESS				2.662	3.407	2.271	2.049	2.327	1.092	.486
SE OF SKEW				.687	.597	.524	.501	.491	.472	.464
SER CORR				.149	.138	.116	-.072	-.231	-.412	-.335
C OF VAR				.690	.797	1.127	.998	.930	.724	.237
<u>LOGS</u>										
MEAN OF				-.910	-.929	-.742	-.544	-.348	-.113	.492
VAR OF				.041	.039	.118	.133	.106	.155	.010
STD DEV OF				.203	.198	.344	.365	.326	.394	.102
SKEW OF				2.277	2.963	1.262	.472	.375	-.869	.083
SE OF SKEW OF				.687	.597	.524	.501	.491	.472	.464
SER CORR OF				.250	.266	.252	.052	-.312	-.422	-.390
C OF VAR OF				-.223	-.213	-.463	-.670	-.936	-3.503	.208

† Zero flow values excluded in computation of statistics.

a Statistics not computed, less than ten non-zero input values.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1 ^b	3 ^b	7 ^b	14 [†]	30 [†]	60 [†]	90 [†]	120 [†]	183 [†]	ANNUAL
100.00				-	-	-	-	-	-	1.821
26.00				-	-	-	-	-	0	-
20.00				-	-	-	-	-	-	2.119
10.00				-	-	-	-	-	.14	2.300
8.67				-	-	-	-	0	-	-
6.50				-	-	-	0	-	-	-
5.00				-	-	-	.07	.16	.31	2.544
4.33				-	-	0	-	-	-	-
2.36				-	0	-	-	-	-	-
2.00				-	.09	.12	.22	.39	.84	3.094
1.73				0	-	-	-	-	-	-
1.25				.11	.12	.25	.50	.80	1.62	3.781
1.11				.15	.16	.42	.80	1.19	2.18	4.206
1.04				.23	.25	.77	1.30	1.80	2.81	4.720
1.02				.31	.36	1.16	1.80	2.34	3.22	5.088
1.01				.43	.79	1.72	2.40	3.02	3.58	5.447

† Zero flow values included in computation of curve.

b Not computed, less than ten non-zero input values.

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WALNUT BROOK NEAR FLEMINGTON, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1937	38.0 23	21.3 22	14.0 22	11.4 21	10.1 13	7.4 15	6.2 17	6.0 14	5.0 15	2.7 2
1938	79.0 5	47.0 4	27.4 5	16.7 8	8.9 17	6.5 21	5.4 21	4.9 23	4.7 18	3.9
1939	78.0 6	44.3 5	28.4 4	20.6 2	15.4 1	11.6 3	11.0 1	9.1 1	7.5 2	4.0
1940	65.0 11	43.2 7	22.9 10	20.8 1	13.7 4	12.2 2	9.7 3	8.0 5	5.5 12	2.9 1
1941	40.0 22	24.9 21	13.6 23	9.5 23	7.7 24	5.9 23	5.1 23	5.2 20	4.6 19	2.5 2
1942	63.0 13	25.6 20	18.8 19	13.8 15	10.4 11	7.6 13	6.6 14	5.8 16	4.1 24	2.8 1
1943	70.0 9	44.3 6	24.4 8	12.7 19	8.6 18	7.1 19	6.8 12	6.4 12	5.6 10	3.5
1944	81.0 4	47.7 3	22.8 11	13.8 16	11.1 9	9.7 8	7.6 11	7.1 9	5.5 11	3.1 1
1945	51.0 17	38.9 11	27.2 6	19.9 4	12.2 6	7.3 16	6.5 15	5.4 18	4.9 16	3.5
1946	73.0 7	33.2 15	19.8 16	13.3 17	8.2 22	8.1 11	5.8 19	5.4 19	4.6 20	3.1 1
1947	37.0 24	20.9 23	16.3 21	9.9 22	8.6 19	7.1 17	6.7 13	5.8 17	4.9 17	2.8 1
1948	73.0 9	36.2 12	22.8 12	15.5 9	9.7 14	8.1 12	8.2 9	7.0 10	5.8 8	3.5
1949	67.0 1	49.7 2	28.8 3	19.1 6	13.8 3	10.6 4	8.4 8	7.4 8	5.7 9	3.0 1
1950	67.0 20	28.0 19	16.4 20	12.1 20	8.3 20	7.1 18	5.7 20	5.0 21	4.2 22	2.2 2
1951	67.0 16	28.1 18	19.5 18	14.1 12	9.3 15	9.0 10	8.0 10	6.9 11	5.9 6	3.5 1
1952	88.0 2	39.6 10	23.5 9	15.4 10	10.2 12	9.8 7	9.0 5	8.1 4	8.3 1	5.2
1953	67.0 14	30.3 17	21.4 13	14.0 13	11.7 8	9.5 9	8.5 7	7.9 6	7.1 3	3.9
1954	74.0 25	18.0 25	11.7 25	8.1 25	7.1 25	5.1 25	4.4 25	4.2 24	3.6 25	2.0 2
1955	84.0 3	50.9 1	34.7 1	20.1 3	10.6 10	6.2 22	5.2 22	5.0 22	4.5 21	3.3 1
1956	64.0 12	40.7 8	21.2 15	14.0 14	11.9 7	10.3 6	9.0 6	7.5 7	5.9 7	3.5 1
1957	67.0 10	40.3 9	24.4 7	15.7 11	9.2 16	7.4 14	6.4 16	6.0 15	5.0 13	2.6 2
1958	57.0 15	34.0 13	21.3 14	17.4 7	13.1 5	10.6 5	9.5 4	8.9 2	7.0 4	3.8
1959	60.0 21	19.7 24	12.5 24	8.7 24	8.3 21	5.7 24	4.7 24	4.1 25	4.1 23	2.5 2
1960	48.0 18	33.7 14	19.6 17	12.7 18	8.1 23	6.5 20	6.1 18	6.3 13	5.0 14	3.1 1
1961	67.0 13	32.0 16	20.1 2	19.3 5	15.0 7	12.7 1	10.3 2	8.2 3	6.5 5	3.8

1-3975.00 WALNUT BROOK NEAR FLEMINGTON, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	61.080	34.900	21.700	14.704	10.448	8.364	7.232	6.464	5.420	3.228
VARIANCE	308.409	97.756	33.002	14.224	5.528	4.468	3.376	2.020	1.329	.470
STD DEV	17.562	9.887	5.745	3.771	2.351	2.114	1.838	1.421	1.153	.686
SKEWNESS	.073	-.104	.128	.091	.678	.514	.376	.178	.826	.687
SE OF SKEW	.464	.464	.464	.464	.464	.464	.464	.464	.464	.464
SER CORR	-.176	-.004	-.188	-.142	-.217	-.166	-.102	-.145	.036	.011
C OF VAR	.288	.283	.265	.256	.225	.253	.254	.220	.213	.212

LOGS

MEAN OF	1.768	1.524	1.321	1.153	1.009	.909	.846	.800	.725	.500
VAR OF	.017	.018	.015	.014	.009	.012	.012	.009	.008	.008
STD DEV OF	.131	.133	.122	.117	.095	.108	.111	.097	.089	.092
SKEW OF	-.289	-.527	-.490	-.408	.359	.126	-.006	-.184	.357	-.055
SE OF SKEW OF	.464	.464	.464	.464	.464	.464	.464	.464	.464	.464
SER CORR OF	-.191	-.039	-.183	-.176	-.253	-.165	-.110	-.158	-.004	-.058
C OF VAR OF	.074	.087	.092	.101	.094	.119	.131	.122	.123	.183

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	27.239	14.610	9.887	7.027	6.518	4.647	3.869	3.635	3.480	1.918
1.05	34.817	19.389	12.745	8.876	7.305	5.432	4.607	4.316	3.875	2.226
1.11	39.454	22.294	14.454	9.978	7.798	5.915	5.055	4.716	4.121	2.409
1.25	45.657	26.131	16.689	11.419	8.476	6.569	5.657	5.238	4.457	2.648
2.00	59.410	34.354	21.415	14.482	10.076	8.074	7.013	6.356	5.245	3.166
3.00	75.734	43.479	26.606	17.897	12.202	9.997	8.690	7.637	6.281	3.776
10.00	85.299	48.474	29.439	19.795	13.588	11.212	9.720	8.374	6.950	4.135
25.00	96.265	53.873	32.503	21.882	15.330	12.700	10.951	9.213	7.784	4.553
50.00	103.759	57.362	34.487	23.256	16.627	13.782	11.828	9.784	8.402	4.843
100.00	110.764	60.478	36.264	24.503	17.926	14.847	12.676	10.317	9.018	5.118

STATISTICS OF MONTHLY MEANS, 1937-1961

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	.9308	1.439	2.563	1.546	2.393	.114
NOV	2.857	2.342	.8244	.8199	7.344	.271
DEC	4.288	2.522	.0463	.5881	11.02	.361
JAN	4.375	2.666	.8594	.6094	11.25	.347
FEB	5.619	2.996	.8732	.5331	14.45	-.011
MAR	7.181	2.303	.1898	.3207	18.46	.050
APR	5.843	3.030	.5948	.5186	15.02	.535
MAY	3.135	2.425	1.065	.7735	8.061	.112
JUN	1.421	1.463	1.577	1.030	3.652	.679
JUL	1.118	1.864	2.962	1.668	2.873	.154
AUG	1.243	2.338	3.037	1.881	3.195	.035
SEP	.8859	1.459	2.402	1.647	2.278	.066

STATISTICS OF LOGS OF MONTHLY MEANS, 1937-1961

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
	-.4929	.7536	-.8107	-1.529		
	.1688	.6644	-1.127	3.936		.681
	.5216	.3624	-1.018	.6948		.184
	.5583	.2869	-.4559	.5139		.473
	.6823	.2641	-.7352	.3871		.213
	.8335	.1459	-.2725	.1751		-.040
	.7053	.2448	-.3685	.3471		.406
	.3559	.3793	-.2991	1.066		.087
	-.0698	.4671	.0145	-6.690		.608
	-.4808	.8327	-.6640	-1.732		.476

Note.--Some statistics of logs not computed; monthly mean discharge for months of August and September equals zero 1 or more times during period of record.

1-3980.00 NESHANIC RIVER AT REAVILLE, N. J.

Location.--Lat 40°28'18", long 74°49'42", 50 ft downstream from Highway Road bridge.

Drainage area.--25.7 sq mi.

DURATION TABLE OF DAILY DISCHARGE

[illegible]

1-3980.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

NESHANIC RIVER AT REAVILLE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1931	0.3 6	0.7 13	0.9 16	1.1 16	1.4 17	1.6 14	1.7 7	2.3 11	4.8 11	21.0 4
1932	0.4 8	0.4 7	0.5 7	0.5 7	0.6 8	1.5 12	1.7 8	2.1 9	4.2 10	33.3 21
1933	1.3 29	1.4 29	1.8 32	2.1 32	3.8 35	5.5 34	8.4 32	14.4 34	25.2 33	43.5 31
1934	0.8 18	0.9 18	1.1 19	1.2 19	2.1 27	2.9 25	5.5 27	7.2 27	14.5 28	30.2 15
1935	0.9 22	1.0 20	1.2 25	1.4 25	2.3 31	3.1 26	7.7 30	12.7 32	12.7 23	42.0 29
1936	0.5 11	0.6 10	0.6 9	0.7 9	1.0 10	1.1 7	1.3 6	1.4 5	2.0 5	28.5 13
1937	1.2 27	1.2 27	1.3 26	1.3 22	1.6 20	3.7 30	7.7 31	9.7 29	13.0 25	32.0 18
1938	2.1 35	2.1 35	2.2 35	2.3 34	3.4 34	12.0 35	17.5 35	40.4 36	47.9 36	60.3 36
1939	0.5 12	0.7 14	0.7 10	0.7 10	1.0 11	1.4 10	2.0 13	2.0 7	3.0 6	25.6 7
1940	1.0 23	1.1 26	1.1 20	1.3 23	1.5 18	2.5 22	3.9 24	5.5 23	12.4 24	37.8 26
1941	1.0 24	1.0 21	1.1 21	1.1 17	1.2 14	1.7 15	2.0 14	5.2 19	9.8 20	26.1 9
1942	0.8 19	1.0 22	1.3 27	2.1 33	2.6 32	3.1 27	4.8 25	9.5 28	21.9 32	37.2 25
1943	0.9 20	1.0 23	1.1 22	1.3 24	1.6 21	2.6 23	3.2 21	5.8 25	15.1 29	33.5 22
1944	0.4 9	0.4 8	0.5 8	0.5 8	0.5 6	1.0 5	1.8 9	1.8 6	5.1 12	32.7 20
1945	2.8 36	3.4 38	3.7 38	5.5 36	6.4 36	12.1 36	24.5 36	32.0 35	34.9 35	46.3 33
1946	1.4 30	1.5 30	1.7 30	1.9 29	2.0 25	2.3 20	2.8 18	3.9 17	11.2 21	28.2 12
1947	1.8 33	1.9 33	2.0 33	2.4 35	2.6 33	5.4 33	8.9 33	13.9 33	21.3 31	38.3 28
1948	1.6 31	1.6 31	1.7 31	1.8 28	1.9 22	2.1 18	2.9 19	5.3 20	8.9 19	48.3 34
1949	0.6 13	0.7 15	0.7 11	1.0 13	1.2 15	2.0 17	2.3 16	3.8 16	3.4 8	26.0 8
1950	1.3 28	1.3 28	1.5 28	2.0 30	2.2 28	3.1 28	3.2 22	3.5 14	6.6 14	35.9 24
1951	1.0 25	1.0 24	1.1 23	1.2 20	1.4 16	2.2 19	3.9 23	5.4 22	8.6 18	43.2 30
1952	1.8 34	2.0 34	2.0 34	2.1 31	2.2 29	3.3 29	9.0 34	10.1 30	18.7 30	55.9 35
1953	0.6 14	0.6 11	0.8 13	0.9 11	0.9 9	1.2 8	1.9 10	2.8 13	4.2 9	25.4 6
1954	0.5 10	0.5 9	0.8 14	1.0 14	1.1 12	1.6 13	2.6 17	5.2 18	7.3 15	27.4 11
1955	0.3 7	0.3 6	0.4 6	0.4 6	0.6 7	1.4 9	2.0 15	5.8 26	31.8 34	43.9 32
1956	1.0 26	1.0 25	1.2 24	1.3 21	1.5 19	1.7 16	1.9 11	2.5 12	5.7 13	25.1 5
1957	0.1 3	0.2 5	0.2 4	0.3 5	0.3 1	0.5 3	0.6 3	0.6 2	1.0 2	38.1 27
1958	0.9 21	0.9 19	1.0 17	1.1 18	2.1 26	3.9 31	6.2 28	5.6 24	14.3 26	32.6 19
1959	0.7 17	0.8 16	0.9 15	1.0 15	1.9 23	4.7 32	7.1 29	11.7 31	11.5 22	30.8 17
1960	0.6 15	0.8 17	1.0 18	1.7 26	2.3 30	2.9 24	4.8 26	5.3 21	14.3 27	35.2 23
1961	1.6 32	1.6 32	1.7 29	1.8 27	2.0 24	2.4 21	3.1 20	3.7 15	7.9 16	30.4 16
1962	0.6 16	0.7 12	0.7 12	0.9 12	1.2 13	1.5 11	2.0 12	2.2 10	3.1 7	26.6 10
1963	0.1 4	0.1 3	0.1 2	0.2 3	0.3 2	1.0 6	1.0 5	1.2 4	1.5 4	19.9 2
1964	0.1 5	0.1 4	0.2 5	0.3 4	0.4 5	0.5 4	0.6 4	0.6 3	1.3 3	20.0 3
1965	0.0 1	0.0 1	0.1 3	0.1 2	0.3 3	0.4 1	0.5 1	0.5 1	0.6 1	14.3 1
1966	0.0 2	0.0 2	0.0 1	0.0 1	0.3 4	0.4 2	0.5 2	2.1 8	8.0 17	29.4 14

	1†	3†	7†	14†	30	60	90	120	183	ANNUAL
MEAN	.926	1.015	1.111	1.329	1.658	2.786	4.486	6.881	11.589	33.469
VARIANCE	.375	.441	.508	.925	1.404	6.857	23.471	67.352	108.917	98.580
STD DEV	.612	.664	.712	.962	1.185	2.619	4.845	8.207	10.436	9.929
SKEWNESS	1.053	1.516	1.400	2.407	1.946	2.610	2.671	2.878	1.718	.702
SE OF SKEW	.403	.403	.398	.398	.393	.393	.393	.393	.393	.393
SER CORR	.089	.085	.113	.044	-.000	-.031	-.037	-.070	-.071	-.017
C OF VAR	.661	.654	.641	.724	.715	.940	1.080	1.193	.901	.297

LOGS

	1†	3†	7†	14†	30	60	90	120	183	ANNUAL
MEAN OF	-.146	-.096	-.061	.015	.111	.309	.469	.626	.882	1.506
VAR OF	.128	.115	.125	.118	.110	.121	.165	.194	.197	.017
STD DEV OF	.358	.339	.354	.343	.332	.348	.406	.440	.444	.130
SKEW OF	-.986	-1.074	-1.195	-.939	-.526	-.052	.020	-.080	-.584	-.250
SE OF SKEW OF	.403	.403	.398	.398	.393	.393	.393	.393	.393	.393
SER CORR OF	.227	.294	.350	.268	.235	.252	.264	.190	.194	.098
C OF VAR OF	-2.444	-3.522	-5.782	23.619	2.980	1.124	.864	.702	.504	.086

† Zero flow values excluded in computations of statistics.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1†	3†	7†	14†	30	60	90	120	183	ANNUAL
100.00	-	-	-	-	.164	.307	.340	.378	.460	15.134
50.00	-	-	-	0	-	-	-	-	-	-
37.00	-	-	0	-	-	-	-	-	-	-
20.00	-	0	.09	.13	.331	.540	.637	.782	1.216	19.204
18.50	0	-	-	-	-	-	-	-	-	-
10.00	.13	.17	.22	.27	.470	.727	.892	1.146	1.958	21.696
5.00	.30	.35	.42	.49	.698	1.041	1.341	1.812	3.356	25.035
2.00	.75	.87	1.03	1.14	1.382	2.053	2.938	4.288	8.408	32.473
1.25	1.39	1.54	1.72	2.02	2.488	4.009	6.462	9.961	18.306	41.384
1.11	1.80	1.92	2.10	2.53	3.265	5.667	9.774	15.358	26.077	46.656
1.04	2.21	2.28	2.47	3.12	4.251	8.171	15.217	24.233	36.622	52.751
1.02	2.45	2.50	2.68	3.48	4.973	10.334	20.268	32.437	44.707	56.948
1.01	2.62	2.70	2.84	3.75	5.676	12.751	26.242	42.078	52.814	60.898

* Zero flow values included in computation of curve.

1-3980.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NESHAMIC RIVER AT REAVILLE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1931	456.0 36	222.0 35	117.0 37	79.5 37	51.1 37	48.0 36	39.1 36	36.7 37	35.0 33	20.3 33
1932	1090.0 13	440.0 19	233.0 23	130.0 29	85.4 31	54.7 34	46.0 33	42.2 33	30.7 35	16.3 35
1943	1820.0 1	1040.0 1	500.0 3	249.0 5	161.0 4	94.7 13	73.6 15	67.0 16	69.3 6	53.2 2
1934	1510.0 5	768.0 4	352.0 5	179.0 11	131.0 12	89.7 15	70.1 18	65.2 18	49.7 21	29.7 23
1935	549.0 33	361.0 27	222.0 26	137.0 27	100.0 25	64.1 30	52.7 32	48.6 31	39.0 32	27.0 26
1936	1130.0 11	637.0 7	344.0 6	259.0 3	191.0 1	134.0 1	109.0 2	97.5 2	79.3 5	41.7 9
1937	792.0 25	278.0 32	158.0 33	140.0 25	117.0 19	88.7 18	72.3 16	65.0 19	54.2 17	31.0 21
1918	1710.0 3	870.0 3	505.0 2	275.0 2	145.0 7	89.3 17	89.5 10	75.6 13	54.2 18	49.6 3
1939	932.0 15	496.0 16	322.0 7	219.0 6	160.0 5	119.0 5	114.0 1	95.1 4	80.3 4	43.4 6
1940	843.0 19	414.0 21	230.0 25	209.0 8	139.0 9	120.0 4	97.6 7	83.6 7	58.2 12	31.6 20
1941	555.0 31	260.0 33	168.0 32	97.9 33	77.9 33	62.6 32	56.7 29	55.8 26	47.8 23	29.4 24
1942	594.0 30	285.0 31	233.0 24	164.0 18	104.0 24	75.4 23	65.2 24	57.7 25	40.9 30	30.5 22
1943	761.0 24	541.0 13	290.0 15	150.0 24	86.1 30	76.9 22	69.2 20	65.4 17	53.7 19	33.4 19
1944	900.0 16	524.0 15	241.0 20	151.0 23	125.0 15	108.0 8	86.2 12	78.4 9	61.9 11	36.1 15
1945	1250.0 8	588.0 10	297.0 13	205.0 9	125.0 16	75.2 24	67.1 22	61.0 23	56.3 14	43.0 7
1946	1760.0 2	684.0 6	322.0 8	166.0 17	118.0 18	95.5 12	69.4 19	62.9 21	54.7 16	41.6 10
1947	330.0 37	179.0 37	132.0 35	88.5 36	73.8 34	62.7 31	58.2 28	52.4 29	46.4 27	28.1 25
1948	762.0 23	369.0 25	235.0 21	156.0 20	109.0 27	89.4 16	87.3 11	76.0 11	67.2 8	42.7 8
1949	1390.0 6	718.0 5	400.0 4	253.0 4	180.0 2	130.0 2	102.0 4	87.5 5	67.2 9	35.7 16
1950	665.0 29	348.0 28	193.0 31	138.0 26	90.9 28	80.6 20	62.5 25	54.3 27	42.9 28	23.2 31
1951	828.0 21	457.0 18	234.0 22	210.0 7	123.0 17	94.5 14	85.8 13	80.6 8	67.8 7	37.9 12
1952	1320.0 7	532.0 14	275.0 18	173.0 15	116.0 20	105.0 10	98.3 6	85.9 6	88.3 1	57.7 1
1953	849.0 18	408.0 22	298.0 12	178.0 12	143.0 8	110.0 7	101.0 5	95.7 3	85.1 2	45.7 4
1954	492.0 34	235.0 34	141.0 34	89.5 34	65.7 36	44.6 37	38.6 37	39.6 34	31.9 34	18.2 34
1955	1570.0 4	924.0 2	599.0 1	322.0 1	166.0 3	84.2 19	56.4 30	54.1 28	47.6 26	38.8 11
1956	1130.0 12	610.0 8	301.0 11	152.0 22	130.0 13	107.0 9	94.8 8	75.9 12	63.3 10	36.6 14
1957	730.0 22	491.0 17	272.0 19	155.0 21	97.1 26	74.6 25	65.7 23	60.0 24	47.7 24	25.0 30
1958	935.0 14	546.0 12	303.0 10	188.0 10	153.0 6	121.0 3	108.0 3	100.0 1	81.5 3	43.5 5
1959	470.0 35	208.0 36	121.0 36	89.1 35	71.8 35	50.6 35	43.4 35	39.5 35	40.1 31	26.2 27
1960	550.0 32	338.0 23	218.0 27	130.0 28	89.9 29	73.6 27	68.6 21	70.4 14	55.7 15	35.0 17
1961	684.0 26	334.0 29	276.0 17	177.0 13	136.0 10	117.0 6	89.8 9	77.5 10	59.1 13	35.0 18
1962	873.0 17	416.0 20	280.0 16	175.0 14	135.0 11	100.0 11	71.9 17	67.0 15	47.7 25	25.1 29
1963	839.0 20	365.0 26	202.0 29	118.0 30	105.0 23	74.1 26	60.8 26	51.4 30	41.1 29	21.5 32
1964	670.0 24	306.0 30	195.0 30	114.0 32	94.9 27	69.2 29	58.7 27	62.1 22	49.7 22	26.1 28
1965	673.0 27	386.0 24	218.0 28	116.0 31	81.2 32	58.7 33	44.4 34	39.4 36	28.2 37	14.5 37
1966	1150.0 10	595.0 9	305.0 9	157.0 19	130.0 14	70.5 28	54.1 31	43.6 32	29.5 36	16.0 36
1967	1240.0 9	563.0 11	295.0 14	170.0 16	116.0 21	79.6 21	74.6 14	64.9 20	53.4 20	37.3 13
MEAN	940.865	480.703	271.000	166.473	116.859	86.289	73.043	65.824	54.205	33.178
VARIANCE	153168.562	41406.250	10906.887	3104.731	1079.719	556.850	433.389	309.152	249.635	110.144
STD DEV	391.367	203.485	104.436	55.720	32.859	23.598	20.818	17.583	15.800	10.495
SKEWNESS	.724	.878	1.217	.760	.203	.218	.253	.206	.422	.205
SE OF SKEW	.388	.388	.388	.388	.388	.388	.388	.388	.388	.388
SER CORR	.020	.014	-.128	-.138	-.125	-.051	.088	.027	.095	.100
C OF VAR	.416	.423	.385	.335	.281	.273	.285	.267	.291	.316

LOGS

MEAN OF	2.937	2.645	2.404	2.198	2.050	1.919	1.846	1.803	1.716	1.498
VAR OF	.033	.034	.026	.021	.017	.015	.016	.014	.017	.022
STD DEV OF	.181	.184	.162	.145	.129	.123	.128	.120	.130	.148
SKEW OF	-.062	-.105	-.042	-.104	-.495	-.317	-.258	-.295	-.221	-.532
SE OF SKEW OF	.388	.388	.388	.388	.388	.388	.388	.388	.388	.388
SER CORR OF	-.024	-.024	-.149	-.109	-.091	-.023	.107	.056	.117	.147
C OF VAR OF	.062	.070	.067	.066	.063	.064	.069	.067	.076	.099

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	321.386	159.101	105.032	70.599	50.487	40.153	33.389	31.395	24.737	12.510
1.05	432.273	216.791	136.442	90.095	66.170	50.792	42.269	39.363	31.240	17.151
1.11	505.424	254.932	156.704	102.372	75.659	57.224	47.688	44.166	35.225	20.038
1.25	609.818	309.381	185.132	119.251	88.165	65.744	54.931	50.517	40.574	23.915
2.00	869.262	444.435	253.949	158.675	114.931	84.322	70.994	64.349	52.534	32.423
5.00	1231.545	631.801	347.053	209.412	144.716	105.870	90.120	80.403	66.971	42.122
10.00	1473.960	756.200	408.002	241.311	161.106	118.268	101.377	89.659	75.574	47.524
25.00	1782.024	913.114	484.300	280.018	178.924	132.288	114.344	100.154	85.582	53.425
50.00	2012.477	1029.650	540.689	307.856	190.503	141.755	123.244	107.259	92.515	57.270
100.00	2243.646	1145.833	596.759	334.957	200.899	150.523	131.598	113.856	99.070	60.722

1-3985.00 NORTH BRANCH RARITAN RIVER NEAR FAR HILLS, N. J.

SUMMARY DURATION TABLE OF DAILY DISCHARGE

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16801	100.0	9	2.10	8	16764	99.8	18	22.0	1695	10850	64.6	27	220	115	247	1.4
1	0.20	35	16801	100.0	10	2.70	87	16756	99.7	19	28.0	1917	9155	54.5	28	290	65	132	.7
2	0.30	0	16766	99.8	11	3.50	148	16669	99.2	20	36.0	1879	7238	43.1	29	380	34	67	.3
3	0.40	0	16766	99.8	12	4.50	295	16521	98.3	21	47.0	1720	5359	31.9	30	490	21	33	.1
4	0.50	0	16766	99.8	13	5.90	506	16226	96.6	22	61.0	1321	3639	21.7	31	640	7	12	.0
5	0.70	0	16766	99.8	14	7.60	847	15720	93.6	23	79.0	878	2318	13.8	32	820	4	5	.0
6	0.90	0	16766	99.8	15	9.90	1149	14873	88.5	24	100.0	602	1440	8.6	33	1100	1	1	
7	1.20	1	16766	99.8	16	13.00	1476	13724	81.7	25	130.0	384	838	5.0	34				
8	1.60	1	16765	99.8	17	17.00	1398	12248	72.9	26	170.0	207	454	2.7					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

NORTH BRANCH RARITAN RIVER NEAR FAR HILLS, N. J.

YEAR	1	3	7	14	30	60	90	129	183	ANNUAL
1922	9.0 33	10.7 35	11.3 35	11.7 31	12.9 31	14.1 26	15.3 26	20.4 32	26.0 30	46.9 27
1923	5.0 14	5.0 13	5.1 12	5.4 11	7.0 13	8.7 12	9.2 12	10.4 12	14.1 11	34.6 11
1924	12.0 39	12.0 36	12.0 36	12.0 32	12.0 28	14.3 28	16.6 28	15.9 21	18.4 18	48.6 30
1925	11.0 37	12.0 37	14.7 39	15.9 39	19.4 39	22.5 39	27.0 39	28.6 36	29.4 31	45.5 25
1926	7.6 26	7.6 25	8.2 25	10.5 29	12.4 30	15.3 29	17.6 31	19.6 29	22.1 24	42.0 20
1927	16.0 43	16.7 43	18.3 45	19.9 44	22.5 43	37.8 45	39.0 44	40.7 43	42.3 40	70.1 44
1928	16.0 44	16.7 44	17.9 43	21.1 45	23.6 45	27.3 43	28.0 41	31.7 41	42.5 41	64.0 40
1929	5.8 19	6.1 19	6.6 18	7.4 18	9.0 20	10.4 19	12.3 19	14.0 17	18.0 17	40.9 18
1930	2.1 3	4.9 12	5.1 13	5.7 12	6.4 10	7.6 10	8.5 10	10.2 11	13.8 10	24.5 2
1931	9.5 30	8.8 29	8.9 27	10.4 27	11.1 26	11.6 20	12.4 20	14.0 18	20.4 20	35.0 12
1932	2.8 7	3.0 8	3.4 8	4.1 8	4.7 7	5.5 5	6.1 5	8.5 7	14.7 13	38.8 14
1933	6.0 20	6.3 20	7.0 19	8.0 21	10.2 24	13.4 25	19.2 33	29.5 39	39.8 38	49.1 31
1934	9.5 34	9.5 32	10.4 32	12.4 34	17.5 38	18.3 36	24.8 36	31.1 40	45.0 43	54.7 36
1935	7.6 27	7.9 26	8.7 26	10.5 28	11.0 25	15.8 30	15.1 23	20.0 30	20.4 21	52.3 34
1936	6.7 22	6.7 21	7.3 22	7.5 19	8.8 18	10.3 18	10.9 16	12.1 16	15.5 16	48.2 28
1937	10.0 36	10.0 34	11.3 33	13.2 35	14.8 33	20.9 37	22.5 35	24.0 33	29.4 32	45.7 26
1938	17.1 45	17.8 45	18.2 44	18.4 42	23.1 44	34.2 44	39.3 45	48.9 45	58.1 45	66.5 41
1939	5.7 18	5.7 17	6.5 16	7.0 16	8.0 15	9.2 13	10.1 14	10.6 13	12.9 8	33.8 9
1940	12.7 40	13.5 40	17.4 41	18.3 41	20.3 40	26.9 41	27.8 40	29.3 38	36.5 35	57.3 37
1941	5.2 15	5.5 14	5.8 14	6.0 13	6.6 12	7.2 9	9.1 11	10.0 10	12.2 6	29.6 6
1942	7.4 28	8.1 27	9.5 30	12.3 33	14.9 34	16.6 33	19.0 32	25.2 34	57.0 44	68.5 43
1943	5.7 16	6.0 18	6.5 17	7.1 17	8.9 19	9.9 16	11.5 17	15.1 19	20.1 19	40.5 17
1944	2.9 3	2.9 6	3.1 6	3.3 5	4.1 4	6.1 6	7.5 8	8.1 5	12.7 7	40.2 15
1945	14.7 41	15.9 42	17.4 42	18.7 43	20.6 41	25.3 40	30.8 42	40.3 42	42.6 42	57.7 39
1946	12.0 38	12.5 39	12.7 37	13.6 36	15.5 36	16.3 31	17.5 30	18.6 27	22.8 26	41.7 19
1947	6.9 25	7.2 24	8.1 24	9.6 24	9.7 21	12.8 22	15.1 24	19.3 28	30.7 33	54.3 35
1948	9.5 35	9.7 33	10.0 31	11.0 30	11.8 27	12.9 24	15.2 25	16.3 22	22.8 27	59.9 39
1949	4.4 12	4.4 11	4.9 11	6.4 14	7.1 14	8.7 11	8.2 9	8.8 9	10.1 3	28.9 5
1950	8.4 29	8.4 28	9.3 28	10.0 25	12.1 29	12.8 23	14.8 22	15.4 20	27.0 23	48.6 29
1951	14.7 42	15.2 41	16.3 40	17.1 40	22.3 42	27.1 42	38.4 43	42.0 44	42.1 39	74.9 45
1952	6.7 23	12.0 38	13.1 38	14.1 37	15.1 35	17.4 34	26.5 37	27.3 35	38.2 37	66.7 42
1953	0.2 1	0.2 1	0.2 1	0.3 2	1.7 1	6.2 7	7.0 6	8.7 8	13.3 9	33.9 10
1954	5.0 13	5.5 15	7.3 23	8.6 23	9.7 22	11.7 21	13.9 21	17.7 25	20.5 22	40.2 16
1955	2.5 5	2.7 4	3.2 7	3.9 7	5.2 8	9.3 14	12.2 18	17.9 26	33.4 34	49.4 32
1956	0.2 2	0.2 2	0.2 2	0.2 1	6.4 11	16.4 32	17.3 29	17.5 23	22.5 25	42.7 22
1957	3.1 10	3.2 9	3.5 9	4.2 9	4.5 6	5.1 4	5.8 4	6.8 3	10.2 4	42.6 21
1958	6.9 24	6.9 23	7.2 20	7.6 20	9.9 23	14.2 27	15.5 27	17.5 24	23.9 29	45.4 24
1959	8.8 32	9.1 30	9.5 29	10.0 26	13.4 32	17.6 35	19.5 34	20.1 31	23.3 28	42.8 23
1960	8.6 31	9.3 31	11.3 34	15.8 38	16.2 37	21.4 38	27.0 38	29.1 37	36.8 36	50.2 33
1961	6.2 21	6.8 22	7.2 21	8.2 22	8.3 17	9.3 15	10.3 15	11.5 14	14.7 14	36.3 13
1962	5.7 17	5.7 16	6.0 15	6.6 15	8.2 16	10.0 17	10.0 13	11.6 15	15.1 15	33.5 8
1963	3.3 11	3.7 10	4.3 10	5.1 10	5.6 9	6.8 8	7.3 7	8.1 6	12.0 5	28.3 4
1964	3.0 9	3.0 7	3.0 4	3.0 3	3.2 2	4.9 3	5.1 2	6.0 1	9.4 2	27.3 3
1965	2.5 6	2.7 5	2.9 3	3.3 4	4.2 5	4.4 1	4.9 1	6.6 2	8.0 1	19.4 1
1966	2.3 4	2.4 3	3.1 5	3.4 6	4.0 3	4.5 2	5.5 3	7.9 4	14.3 12	32.8 7

1-3985.00 NORTH BRANCH RARITAN RIVER NEAR FAR HILLS, N. J.
 LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	14	30	60	90	120	183	ANNUAL
MEAN	7.298	7.780	8.531	9.529	11.198	14.189	16.369	18.953	24.667	45.218
VARIANCE	18.157	19.891	23.724	28.016	34.845	62.247	85.768	111.810	164.691	167.629
STD DEV	4.261	4.460	4.871	5.293	5.903	7.890	9.261	10.574	12.833	12.947
SKEWNESS	.575	.540	.520	.414	.598	1.127	.988	1.026	.912	.377
SE OF SKEW	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR	.285	.258	.228	.228	.199	.175	.170	.090	-.009	.174
C OF VAR	.584	.573	.571	.555	.527	.556	.566	.558	.520	.286

LOGS

MEAN OF	.750	.780	.819	.871	.983	1.089	1.147	1.214	1.337	1.637
VAR OF	.159	.160	.164	.158	.066	.057	.061	.057	.049	.017
STD DEV OF	.399	.400	.405	.397	.257	.239	.246	.239	.222	.129
SKEW OF	-2.144	-2.273	-2.362	-2.364	-.591	-.028	-.024	.063	.102	-.364
SE OF SKEW OF	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR OF	.251	.207	.172	.172	.200	.225	.240	.164	.066	.232
C OF VAR OF	.532	.512	.494	.456	.262	.220	.215	.197	.166	.079

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1 ^c	3 ^c	7 ^c	14 ^c	30 ^c	60	90	120	183	ANNUAL
100.00	1.32	1.50	1.71	2.10	2.54	3.369	3.713	4.670	6.858	20.110
20.00	2.21	2.42	2.74	3.29	3.92	4.938	5.500	6.689	9.496	25.867
10.00	2.90	3.10	3.49	4.20	4.93	6.049	6.775	8.119	11.332	29.367
5.00	3.93	4.17	4.62	5.50	6.43	7.726	8.715	10.286	14.078	34.015
2.00	6.88	7.15	7.85	9.20	10.60	12.303	14.071	16.276	21.523	44.162
1.25	11.20	11.60	12.60	14.80	16.70	19.519	22.646	25.966	33.311	55.894
1.11	13.80	14.25	15.90	18.10	20.50	24.809	29.003	33.257	42.062	62.603
1.04	16.80	17.50	19.50	22.10	25.00	32.003	37.723	43.409	54.145	70.142
1.02	18.80	19.60	22.00	24.90	28.20	37.702	44.682	51.633	63.870	75.198
1.01	20.40	21.40	24.20	27.25	31.10	43.673	52.013	60.410	74.206	79.854

^c Discharges determined by graphical method.

1-3985.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NORTH BRANCH KAPITAN RIVER NEAR FAR HILLS, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1922	823.0 5	435.0 6	238.0 10	160.0 12	124.0 16	99.9 17	89.3 17	80.7 18	74.7 13	48.3 18
1923	403.0 26	256.0 23	188.0 19	150.0 17	119.0 21	92.6 24	74.2 30	64.4 32	53.1 36	33.1 36
1924	436.0 22	274.0 19	190.0 18	150.0 18	121.0 19	113.0 12	97.7 13	86.2 13	76.2 10	48.7 17
1925	349.0 32	207.0 34	161.0 30	149.0 19	126.0 15	102.0 16	81.6 24	68.4 28	56.6 35	37.6 32
1926	316.0 37	223.0 32	150.0 35	128.0 29	104.0 29	79.8 32	70.9 32	68.5 27	62.0 26	47.2 28
1927	340.0 34	196.0 40	128.0 39	98.6 38	78.5 38	71.3 35	66.7 34	66.9 31	59.6 28	50.3 16
1928	1130.0 1	514.0 2	284.0 4	210.0 4	172.0 2	148.0 2	122.0 2	111.0 2	102.0 2	89.7 1
1929	420.0 25	270.0 20	196.0 17	155.0 13	130.0 13	98.3 20	98.9 12	86.2 14	69.4 19	45.0 25
1930	306.0 38	171.0 42	122.0 41	88.9 41	72.0 42	62.3 40	55.1 40	50.4 41	44.6 40	31.0 39
1931	357.0 31	231.0 30	156.0 31	98.6 39	63.4 43	56.0 43	51.2 43	51.6 40	46.5 38	37.0 38
1932	423.0 24	242.0 25	187.0 20	126.0 31	93.9 35	67.4 36	56.9 39	53.2 39	43.0 41	26.7 43
1933	672.0 9	368.0 10	223.0 11	138.0 24	127.0 14	104.0 14	89.9 15	77.6 20	70.0 17	55.2 9
1934	762.0 8	303.0 14	155.0 32	129.0 28	106.0 28	85.8 27	77.6 27	67.6 29	58.0 30	47.3 21
1935	323.0 36	200.0 36	155.0 33	117.0 35	78.9 37	65.8 38	61.6 36	57.3 37	57.7 32	41.7 30
1936	843.0 4	640.0 1	386.0 1	307.0 1	266.0 1	172.0 1	131.0 1	118.0 1	98.0 3	59.1 4
1937	442.0 21	228.0 31	167.0 28	145.0 21	115.0 24	98.8 19	87.3 21	83.8 16	73.9 15	47.8 19
1938	776.0 6	458.0 4	264.0 6	153.0 15	119.0 20	83.3 29	79.7 25	71.0 25	62.1 25	57.4 7
1939	303.0 39	199.0 37	151.0 34	132.0 26	122.0 18	121.0 8	116.0 4	99.4 7	85.0 7	53.2 14
1940	1070.0 2	449.0 5	252.0 8	177.0 7	146.0 6	126.0 6	114.0 6	98.4 8	75.7 11	47.5 20
1941	264.0 42	194.0 38	111.0 44	83.9 43	77.3 39	66.5 37	59.7 37	60.7 36	56.9 34	36.9 33
1942	598.0 11	426.0 8	353.0 2	269.0 2	162.0 4	115.0 11	83.1 23	64.9 30	61.2 27	47.1 22
1943	492.0 18	300.0 15	216.0 12	141.0 22	101.0 30	95.7 22	87.5 20	87.4 12	80.0 9	57.4 8
1944	509.0 17	215.0 33	164.0 29	120.0 34	110.0 25	104.0 15	89.3 16	77.6 21	62.2 24	39.3 31
1945	374.0 28	232.0 29	179.0 25	162.0 11	133.0 12	98.2 21	96.8 14	85.6 15	74.7 14	53.0 15
1946	427.0 23	238.0 26	169.0 27	127.0 30	123.0 17	84.2 28	76.1 28	71.1 24	70.0 18	54.6 10
1947	342.0 33	201.0 35	139.0 38	109.0 37	107.0 27	91.1 25	88.5 18	81.3 17	65.5 22	42.1 29
1948	373.0 29	233.0 28	185.0 21	149.0 20	138.0 8	119.0 9	110.0 8	102.0 6	83.4 8	57.5 6
1949	774.0 7	503.0 3	301.0 3	236.0 3	167.0 3	126.0 7	104.0 10	94.1 9	75.4 12	44.3 26
1950	236.0 44	138.0 44	117.0 42	97.5 40	75.2 41	61.9 41	56.9 38	54.5 38	46.4 39	30.9 40
1951	451.0 19	338.0 11	258.0 7	182.0 5	136.0 9	112.0 13	101.0 11	91.2 10	85.2 6	60.2 3
1952	565.0 13	309.0 13	202.0 16	170.0 9	136.0 10	119.0 10	112.0 7	106.0 5	106.0 1	78.0 2
1953	534.0 16	287.0 16	211.0 13	182.0 6	145.0 7	128.0 4	115.0 5	108.0 3	97.2 4	57.7 5
1954	220.0 45	99.3 46	76.4 46	58.2 46	52.9 46	47.4 45	47.9 44	42.8 45	36.5 44	25.9 44
1955	902.0 3	433.0 7	276.0 5	168.0 10	99.1 32	71.7 34	64.3 35	63.6 33	57.1 33	43.6 27
1956	548.0 14	400.0 9	247.0 9	151.0 16	117.0 22	99.0 18	88.4 19	79.5 19	72.3 16	53.7 13
1957	329.0 35	246.0 24	185.0 22	129.0 27	99.1 33	76.7 33	69.0 33	63.5 34	58.0 31	36.0 34
1958	545.0 15	275.0 18	204.0 15	171.0 8	146.0 5	135.0 3	120.0 3	107.0 4	91.5 5	54.1 11
1959	267.0 41	124.0 45	83.9 45	61.4 45	53.6 45	50.8 44	47.3 45	44.5 44	42.7 42	32.9 37
1960	442.0 20	263.0 21	184.0 23	138.0 25	99.0 34	80.1 31	77.8 26	76.9 22	69.2 21	53.9 12
1961	357.0 30	277.0 17	207.0 14	154.0 14	136.0 11	127.0 5	108.0 9	89.6 11	69.3 20	45.7 23
1962	629.0 10	310.0 12	176.0 26	122.0 32	108.0 26	93.6 23	74.5 29	62.7 35	49.2 37	30.2 41
1963	273.0 40	186.0 39	148.0 36	121.0 33	92.5 36	83.3 39	52.9 41	47.2 43	42.3 43	28.1 42
1964	216.0 46	144.0 43	116.0 43	111.0 36	101.0 31	82.3 30	71.4 31	70.6 26	58.4 29	35.7 35
1965	596.0 12	258.0 22	139.0 37	79.7 44	55.6 44	43.7 46	39.9 46	34.2 46	28.5 46	17.7 46
1966	256.0 43	172.0 41	123.0 40	87.3 42	75.6 40	57.8 42	52.5 42	47.7 42	36.4 45	22.8 45
1967	379.0 27	236.0 27	184.0 24	141.0 23	115.0 23	88.7 26	85.6 22	75.6 23	63.0 23	45.6 24
MEAN	485.913	280.245	189.289	142.024	113.578	93.152	82.630	75.052	65.361	45.189
VARIANCE	49225.508	13000.141	4148.418	2277.711	1250.855	781.131	529.442	404.435	320.868	187.267
STD DEV	221.868	114.018	64.408	47.725	35.367	27.949	23.010	20.111	17.913	13.685
SKEWNESS	1.199	1.107	.953	1.217	.970	.428	.145	.158	.267	.667
SE OF SKEW	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR	-.314	-.263	-.219	-.169	-.113	-.032	.056	.078	.154	.210
C OF VAR	.457	.407	.340	.336	.311	.300	.278	.268	.274	.303

LOGS

MEAN OF	2.647	2.415	2.253	2.130	2.035	1.949	1.900	1.859	1.798	1.635
VAR OF	.033	.029	.021	.021	.019	.018	.016	.015	.016	.019
STD DEV OF	.183	.170	.146	.143	.137	.135	.127	.123	.125	.137
SKEW OF	.387	.056	-.136	-.203	-.358	-.307	-.364	-.456	-.487	-.478
SE OF SKEW OF	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR OF	-.342	-.273	-.233	-.171	-.068	.020	.087	.093	.174	.258
C OF VAR OF	.069	.070	.065	.067	.067	.069	.067	.066	.070	.084

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	188.042	106.369	79.184	59.555	47.833	40.321	37.218	34.169	29.064	18.626
1.05	233.248	137.490	101.703	76.883	62.492	52.046	47.696	43.942	37.730	24.732
1.11	264.083	157.861	115.871	87.707	71.511	59.252	54.046	49.803	42.943	28.469
1.25	309.692	186.850	135.321	102.458	83.603	68.920	62.465	57.491	49.785	33.440
2.00	432.053	258.982	180.573	136.263	110.386	90.422	80.788	73.864	64.350	44.236
5.00	626.368	360.825	238.371	178.391	141.908	115.991	101.895	92.062	80.473	56.480
10.00	772.685	430.022	274.439	204.101	160.167	130.972	113.936	102.109	89.321	63.315
25.00	978.480	519.319	317.921	234.534	180.866	148.131	127.443	113.079	98.928	70.824
50.00	1147.538	587.151	349.004	255.928	194.852	159.839	136.490	120.248	105.169	75.748
100.00	1330.573	656.089	379.115	276.376	207.800	170.770	144.814	126.714	110.771	80.199

1-3995.00 LAMINGTON RIVER NEAR POTTERSVILLE, N. J.

LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	14	30	60	90	120	183	ANNUAL
MEAN	10.644	11.160	12.129	13.140	15.193	18.862	21.569	24.967	31.415	53.224
VARIANCE	35.335	38.323	44.499	50.593	66.481	106.946	133.539	161.823	205.263	224.239
STD DEV	5.944	6.191	6.671	7.113	8.154	10.341	11.556	12.721	14.327	14.975
SKEWNESS	.734	.785	.793	.693	.678	.697	.622	.511	.433	.181
SE OF SKEW	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR	.116	.112	.090	.083	.103	.112	.145	.090	.066	.246
C OF VAR	.558	.555	.550	.541	.537	.548	.536	.510	.456	.281

LOGS

MEAN OF	.949	.971	1.011	1.048	1.115	1.207	1.267	1.336	1.450	1.708
VAR OF	.080	.079	.074	.071	.065	.066	.065	.059	.044	.017
STD DEV OF	.283	.281	.272	.266	.255	.257	.254	.243	.210	.131
SKEW OF	-.701	-.737	-.589	-.542	-.363	-.285	-.353	-.344	-.215	-.597
SE OF SKEW OF	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR OF	.178	.210	.213	.214	.220	.241	.291	.237	.181	.320
C OF VAR OF	.299	.290	.269	.254	.229	.213	.201	.182	.145	.076

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	1.409	1.477	1.836	2.119	2.852	3.601	4.072	5.132	8.475	22.305
20.00	2.716	2.864	3.333	3.746	4.689	5.818	6.673	8.206	12.356	29.741
10.00	3.729	3.940	4.463	4.959	6.024	7.429	8.563	10.403	15.004	34.235
5.00	5.314	5.621	6.208	6.821	8.052	9.886	11.434	13.699	18.861	40.133
2.00	9.596	10.124	10.891	11.794	13.487	16.553	19.131	22.385	28.666	52.587
1.25	15.563	16.300	17.517	18.861	21.487	26.637	30.486	34.955	42.517	66.056
1.11	19.255	20.059	21.737	23.408	26.885	33.635	38.170	43.361	51.747	73.248
1.04	23.492	24.309	26.734	28.853	33.664	42.647	47.845	53.868	63.357	80.860
1.02	26.327	27.113	30.186	32.659	38.634	49.410	54.956	61.548	71.931	85.682
1.01	28.898	29.628	33.405	36.247	43.511	56.178	61.949	69.073	80.423	89.920

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LAMINGTON RIVER NEAR POTTERSVILLE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1922	315.0 17	175.0 35	157.0 32	125.0 32	109.0 31	102.0 20	93.8 20	90.1 18	85.6 13	82.9 13
1923	430.0 4	253.0 16	193.0 20	162.0 15	129.0 18	98.5 24	82.2 29	75.3 27	63.9 33	41.7 35
1924	325.0 15	282.0 11	218.0 10	167.0 13	134.0 15	123.0 11	107.0 12	94.6 14	87.9 10	56.5 19
1925	345.0 9	283.0 10	224.0 9	184.0 7	156.0 5	121.0 12	96.6 18	82.3 24	67.0 28	46.5 32
1926	241.0 32	196.0 29	160.0 30	144.0 25	114.0 27	86.6 32	73.7 33	72.2 34	65.5 31	47.3 30
1927	180.0 39	151.0 39	121.0 40	97.7 40	84.1 39	80.3 34	75.2 32	73.6 32	68.5 27	58.1 17
1928	338.0 11	295.0 8	246.0 6	185.0 6	181.0 2	161.0 2	139.0 2	129.0 2	117.0 2	104.0 1
1929	243.0 31	213.0 26	176.0 26	144.0 26	111.0 30	98.9 23	98.4 16	88.5 19	73.7 23	45.0 29
1930	146.0 45	124.0 45	110.0 43	83.3 44	71.8 43	64.7 42	58.4 42	57.4 40	51.4 40	35.1 41
1931	276.0 25	222.0 23	167.0 29	121.0 33	80.8 41	73.1 39	63.9 39	62.0 38	54.6 38	37.7 39
1932	216.0 34	163.0 37	153.0 34	116.0 37	92.6 37	70.9 40	59.4 41	56.8 41	47.9 43	30.5 44
1933	300.0 22	233.0 21	179.0 25	145.0 23	132.0 17	113.0 14	103.0 14	90.8 16	87.5 11	67.5 7
1934	378.0 8	270.0 13	174.0 27	119.0 34	106.0 32	96.5 25	85.5 25	76.1 26	65.5 32	52.6 22
1935	333.0 12	227.0 22	184.0 23	127.0 30	92.1 38	77.8 36	77.4 31	74.7 29	74.2 22	56.8 18
1936	763.0 2	624.0 1	423.0 1	335.0 1	264.0 1	193.0 1	151.0 1	133.0 1	113.0 4	70.3 4
1937	293.0 36	156.0 38	132.0 38	118.0 35	99.2 34	90.4 29	84.7 26	83.2 23	77.0 20	51.6 25
1938	344.0 10	296.0 7	232.0 8	141.0 27	102.0 33	88.3 31	83.0 28	74.1 30	70.1 24	61.9 15
1939	201.0 37	179.0 33	159.0 31	139.0 28	134.0 16	133.0 7	127.0 5	112.0 7	99.1 6	64.4 10
1940	438.0 1	522.0 2	333.0 2	205.0 4	161.0 4	132.0 8	123.0 8	107.0 8	83.4 15	54.8 21
1941	161.0 42	136.0 41	108.0 44	99.1 39	93.8 36	77.4 37	69.9 36	71.0 35	66.4 30	44.1 34
1942	294.0 23	211.0 27	197.0 18	168.0 12	112.0 29	93.9 27	72.9 34	63.3 37	59.4 36	49.1 28
1943	311.0 19	277.0 12	212.0 12	147.0 20	116.0 23	102.0 21	101.0 15	99.0 11	89.7 9	65.9 9
1944	275.0 26	182.0 32	147.0 36	125.0 31	117.0 21	108.0 15	96.4 19	84.7 22	69.2 25	46.6 31
1945	290.0 24	211.0 28	191.0 22	175.0 10	140.0 12	106.0 16	105.0 13	96.2 13	86.8 12	64.3 11
1946	224.0 33	173.0 34	155.0 33	138.0 29	115.0 24	104.0 18	88.8 23	85.3 20	77.9 19	62.7 14
1947	225.0 35	184.0 31	145.0 37	117.0 36	114.0 25	99.6 22	96.6 17	90.2 17	75.3 21	52.5 23
1948	277.0 23	242.0 18	204.0 15	159.0 17	153.0 6	136.0 5	130.0 3	120.0 5	97.3 7	69.4 5
1949	346.0 7	357.0 4	264.0 5	224.0 2	167.0 3	134.0 6	114.0 10	103.0 9	83.3 16	51.1 26
1950	143.0 46	125.0 44	114.0 42	94.8 42	79.9 42	67.4 41	64.2 38	61.7 39	53.8 39	36.8 40
1951	322.0 16	293.0 9	243.0 7	183.0 8	145.0 10	121.0 13	112.0 11	103.0 10	91.9 8	67.0 8
1952	314.0 18	261.0 14	197.0 16	168.0 11	140.0 11	130.0 10	126.0 6	122.0 4	118.0 1	90.6 2
1953	333.0 20	259.0 15	209.0 14	188.0 5	152.0 7	139.0 3	129.0 4	124.0 3	115.0 3	71.0 3
1954	152.0 44	125.0 45	96.6 46	80.5 45	66.9 44	58.2 45	58.1 43	52.7 43	48.3 42	34.7 42
1955	406.0 3	393.0 3	288.0 3	223.0 3	136.0 13	92.0 33	69.3 37	68.5 36	62.7 34	51.1 27
1956	332.0 13	320.0 5	269.0 4	178.0 9	134.0 14	103.0 19	92.0 21	84.9 21	78.8 17	63.1 12
1957	250.0 24	217.0 24	194.0 19	144.0 24	114.0 26	88.9 30	80.6 30	74.9 28	68.5 26	45.4 33
1958	400.0 6	242.0 19	172.0 21	161.0 16	146.0 8	137.0 4	125.0 7	114.0 6	99.5 5	61.6 16
1959	175.0 40	130.0 42	103.0 45	72.9 46	65.6 46	60.3 43	55.4 44	52.1 44	47.2 44	39.8 38
1960	300.0 21	235.0 20	197.0 17	157.0 18	116.0 22	94.6 26	91.0 22	92.8 15	84.5 14	68.9 6
1961	273.0 27	250.0 17	210.0 13	166.0 14	146.0 9	132.0 9	117.0 9	98.7 12	77.9 18	55.3 20
1962	438.0 5	306.0 6	214.0 11	147.0 19	124.0 19	105.0 17	83.5 27	73.9 31	59.2 37	38.2 38
1963	186.0 38	173.0 36	167.0 28	146.0 21	113.0 28	77.0 38	63.5 40	56.4 42	49.6 41	33.5 43
1964	160.0 43	143.0 40	115.0 41	101.0 38	95.1 35	79.8 35	70.9 35	73.2 33	61.7 35	39.3 37
1965	323.0 14	215.0 25	152.0 35	94.9 41	66.0 45	50.7 46	44.2 46	38.8 46	33.7 46	20.5 46
1966	168.0 41	129.0 43	123.0 39	93.3 43	82.2 40	59.5 44	52.7 45	47.1 45	37.9 45	24.8 45
1967	243.0 30	189.0 30	179.0 24	146.0 22	121.0 20	92.6 28	86.6 24	80.2 25	66.9 29	51.9 24

1-3995.00 LAMINGTON RIVER NEAR POTTERSVILLE, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	303.065	235.435	187.535	146.837	120.089	100.932	90.822	84.006	74.202	53.226
VARIANCE	20988.391	9579.336	3860.069	2114.061	1261.696	845.374	647.215	509.897	410.943	253.098
STD DEV	144.874	97.874	62.129	45.979	35.520	29.075	25.440	22.581	20.272	15.909
SKEWNESS	2.295	1.933	1.408	1.487	1.382	.733	.357	.300	.353	.612
SE OF SKEW	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR	-.230	-.227	-.216	-.182	-.121	.002	.120	.133	.171	.216
C OF VAR	.478	.416	.331	.313	.296	.288	.280	.269	.273	.299

LOGS

MEAN OF	2.445	2.342	2.252	2.148	2.062	1.987	1.941	1.908	1.854	1.706
VAR OF	.030	.025	.018	.017	.015	.016	.016	.015	.015	.018
STD DEV OF	.173	.159	.135	.129	.123	.125	.125	.121	.123	.136
SKEW OF	.639	.432	.196	.087	.052	-.079	-.204	-.360	-.403	-.560
SE OF SKEW OF	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR OF	-.274	-.270	-.251	-.183	-.070	.070	.173	.170	.218	.302
C OF VAR OF	.071	.068	.060	.060	.060	.063	.064	.063	.066	.080

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	133.296	105.221	90.522	71.751	60.359	48.925	42.940	39.364	33.982	21.654
1.05	156.739	126.050	108.938	86.846	72.732	60.110	53.617	49.842	43.455	29.057
1.11	173.175	140.036	120.684	96.306	80.408	66.984	60.123	56.140	49.156	33.573
1.25	197.998	160.445	137.092	109.315	90.872	76.265	68.821	64.438	56.664	39.550
2.00	267.001	213.902	176.849	139.945	115.140	97.349	88.172	82.337	72.807	52.354
5.00	382.249	296.031	231.433	180.251	146.397	123.598	111.420	102.745	91.059	66.505
10.00	472.841	356.293	267.932	206.257	166.213	139.728	125.239	114.308	101.302	74.202
25.00	605.047	439.373	314.619	238.580	190.513	159.000	141.302	127.222	112.643	82.469
50.00	717.419	506.460	349.885	262.377	208.190	172.691	152.426	135.844	120.150	87.777
100.00	842.572	578.140	385.614	286.002	225.577	185.903	162.942	143.758	126.993	92.491

STATISTICS OF MONTHLY MEANS, 1922-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1922-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	32.62	23.52	1.818	.7210	5.100	.570	1.419	.2910	-.0366	.2051	7.264	.743
NOV	49.03	31.67	1.490	.6459	7.664	.606	1.610	.2677	.0747	.1663	8.241	.633
DEC	53.35	27.02	1.006	.5066	8.339	.704	1.674	.2177	.0387	.1300	8.570	.673
JAN	60.33	29.34	.8859	.4862	9.431	.605	1.730	.2172	-.2067	.1256	8.853	.661
FEB	67.94	25.97	.5001	.3822	10.62	.342	1.799	.1743	-.3140	.0969	9.211	.317
MAR	92.09	32.20	1.730	.3496	14.40	.058	1.941	.1412	.1257	.0728	9.937	.078
APR	84.23	33.29	.3274	.3952	13.17	.575	1.890	.1810	-.2315	.0958	9.675	.566
MAY	61.87	25.65	.5332	.4145	9.672	.635	1.752	.1919	-.3953	.1095	8.970	.671
JUN	39.54	19.24	.9880	.4866	6.181	.709	1.549	.2082	-.0501	.1344	7.928	.721
JUL	33.59	24.29	1.220	.7230	5.251	.609	1.419	.3141	-.0219	.2214	7.263	.720
AUG	33.54	28.71	1.782	.8559	5.243	.491	1.386	.3581	-.0084	.2583	7.096	.665
SEP	31.59	25.00	1.092	.7916	4.937	.696	1.366	.3528	-.0030	.2583	6.991	.794

1-3995.00 LAMINGTON RIVER NEAR POTTERSVILLE, N. J.

SUMMARY DURATION TABLE OF DAILY DISCHARGE

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16801	100.0	9	6.80	184	16376	97.5	18	37.0	1403	9140	54.4	27	200	109	199	1.1
1	1.50	2	16801	100.0	10	8.20	344	16192	96.4	19	45.0	1372	7737	46.1	28	250	47	90	.5
2	1.80	2	16799	100.0	11	9.90	423	15848	94.3	20	54.0	1563	6365	37.9	29	300	27	43	.2
3	2.20	4	16797	100.0	12	12.00	455	15425	91.8	21	66.0	1284	4802	28.6	30	360	9	16	.0
4	2.40	18	16793	100.0	13	14.00	969	14970	89.1	22	79.0	1176	3518	20.9	31	430	3	7	.0
5	3.20	30	16775	99.8	14	17.00	1054	14001	83.3	23	96.0	1032	2342	13.9	32	520	1	4	.0
6	3.90	61	16745	99.7	15	21.00	1012	12947	77.1	24	120.0	510	1310	7.8	33	630	1	3	.0
7	4.70	131	16634	99.3	16	25.00	1519	11935	71.0	25	140.0	379	800	4.8	34	760	2	2	.0
8	5.60	177	16553	98.5	17	31.00	1276	10416	62.0	26	170.0	222	421	2.5					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

LAMINGTON RIVER NEAR POTTERSVILLE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1922	14.0 34	15.0 33	16.4 35	17.9 34	19.8 32	21.7 28	23.4 28	33.3 32	40.1 32	60.8 32
1923	7.3 15	7.9 15	8.4 14	9.5 14	10.2 13	12.7 15	14.2 14	14.9 12	20.3 12	43.7 11
1924	4.6 20	4.7 20	10.2 20	10.9 20	11.3 17	14.7 21	17.7 23	21.3 20	23.0 17	56.5 30
1925	12.0 29	13.3 32	15.9 32	17.1 32	20.7 35	25.6 36	31.4 36	32.2 31	33.5 27	50.3 22
1926	12.0 30	12.0 28	12.6 26	12.9 25	15.8 29	20.4 27	23.3 27	27.2 28	29.3 25	49.8 19
1927	18.0 40	18.7 40	20.6 41	21.0 38	29.2 42	41.1 44	44.5 43	46.5 42	48.4 38	81.9 43
1928	19.0 41	19.0 41	19.4 40	23.6 43	29.7 43	33.7 40	36.2 40	40.3 41	55.2 42	73.9 42
1929	4.4 9	4.7 7	5.1 7	5.5 7	6.2 7	8.5 9	11.2 9	14.6 10	21.4 16	44.2 12
1930	1.5 1	1.6 1	2.5 2	3.4 2	4.8 3	6.0 4	6.7 4	7.7 3	12.6 3	26.1 2
1931	12.0 31	12.0 29	12.6 27	13.7 28	14.7 26	15.3 22	16.2 20	18.7 18	25.4 19	40.8 9
1932	3.0 3	3.1 4	3.5 4	3.9 4	5.5 6	6.5 5	7.4 5	11.3 8	20.6 13	50.2 21
1933	8.7 19	8.8 19	9.5 17	10.4 19	12.4 19	16.9 25	24.6 31	37.0 38	42.4 33	55.8 29
1934	12.6 32	13.0 31	15.3 31	17.9 35	22.5 36	25.1 34	32.3 37	36.9 37	53.0 41	64.8 35
1935	10.6 25	11.4 26	13.8 30	14.2 30	14.8 27	22.8 31	24.1 30	37.7 39	33.8 28	65.5 36
1936	7.0 13	7.7 14	8.7 15	9.7 15	10.8 16	11.9 13	13.8 13	16.0 14	21.2 15	53.7 25
1937	11.4 27	11.6 27	12.3 24	12.6 24	13.9 24	22.7 30	22.3 26	25.9 27	35.2 29	54.2 27
1938	17.3 39	18.0 39	18.6 37	19.3 36	23.2 37	40.2 43	43.4 42	49.0 43	57.5 44	71.9 39
1939	8.4 18	8.7 18	9.5 18	9.9 17	12.4 20	14.5 18	15.9 17	16.0 15	18.7 10	43.4 10
1940	20.0 42	20.7 42	22.0 43	22.4 41	27.8 41	35.2 41	35.7 39	36.4 36	44.9 36	64.2 34
1941	4.7 10	6.2 11	6.7 11	7.2 11	8.5 11	9.7 10	12.6 11	14.7 11	16.9 8	34.7 6
1942	14.1 35	15.1 34	18.7 38	21.7 39	23.6 39	24.8 33	30.2 35	36.1 35	56.4 43	73.1 41
1943	10.0 21	10.0 21	10.6 22	11.7 23	13.8 23	15.3 23	17.4 21	22.0 22	29.7 26	49.5 18
1944	3.8 5	3.8 5	4.0 5	4.5 5	5.2 5	7.7 7	9.7 8	10.8 7	16.9 9	46.0 16
1945	28.0 45	30.3 45	32.7 45	33.4 45	35.8 45	42.4 45	47.1 45	55.3 45	58.7 45	72.7 40
1946	14.8 36	15.8 35	16.2 34	17.7 33	19.9 33	22.0 29	23.5 29	23.9 26	28.8 23	45.4 14
1947	16.0 38	16.0 36	16.1 33	16.6 31	18.1 31	23.0 32	27.5 32	35.8 33	44.7 35	68.0 37
1948	11.8 29	12.2 30	12.6 28	13.6 27	15.3 28	16.0 24	19.8 24	23.3 24	28.6 22	70.0 38
1949	7.3 14	7.6 13	7.9 13	10.1 18	10.6 14	11.7 12	12.5 10	13.3 9	14.6 5	34.4 5
1950	10.0 22	10.7 22	10.4 21	11.2 21	13.4 21	14.6 20	15.2 15	16.8 16	26.1 21	52.8 24
1951	23.0 44	23.7 44	26.7 44	28.6 44	33.0 44	37.7 42	45.4 44	50.1 44	51.4 39	84.0 45
1952	21.0 43	21.0 43	21.0 42	22.4 40	23.4 38	27.6 37	38.6 41	38.1 40	52.8 40	83.0 44
1953	8.0 16	8.5 16	8.8 16	9.2 13	9.6 12	10.5 11	13.7 12	15.6 13	20.3 11	45.6 15
1954	8.4 17	8.7 17	9.7 19	9.8 16	12.1 18	13.7 16	16.1 19	21.6 21	25.0 18	45.0 13
1955	4.0 7	4.9 9	5.9 10	6.5 10	8.1 10	12.7 14	15.9 18	22.7 23	44.5 34	58.9 31
1956	15.0 37	16.0 37	17.4 36	19.3 37	20.5 34	28.7 38	29.8 34	32.0 30	36.5 31	54.1 26
1957	4.9 11	5.0 10	5.7 9	6.1 9	6.6 9	7.5 6	8.5 6	9.8 6	14.7 6	50.1 20
1958	10.0 23	10.3 23	11.1 23	11.4 22	14.3 25	19.6 26	21.9 25	23.4 25	29.3 24	50.8 23
1959	10.0 24	11.3 24	12.6 29	14.1 29	17.4 30	25.2 35	27.5 33	29.8 29	35.7 30	55.5 28
1960	14.0 33	16.3 38	19.1 39	22.9 42	25.0 40	30.0 39	34.2 38	35.8 34	46.5 37	61.0 33
1961	11.0 26	11.3 25	12.4 25	13.0 26	13.7 22	14.5 19	17.7 22	19.8 19	26.0 20	48.5 17
1962	6.8 12	7.1 12	7.5 12	8.1 12	10.7 15	14.4 17	15.2 16	16.9 17	21.0 14	39.0 8
1963	4.4 8	4.7 8	5.2 8	5.7 8	6.3 8	8.2 8	8.5 7	9.4 4	14.2 4	33.0 4
1964	7.2 2	7.2 2	7.4 1	7.5 1	7.7 1	8.0 1	8.5 1	9.1 1	11.7 2	30.5 3
1965	3.9 6	4.0 6	4.2 6	4.5 6	5.0 4	5.5 3	5.9 2	7.1 2	10.0 1	22.1 1
1966	3.1 4	3.1 3	3.3 3	3.7 3	4.4 2	5.3 2	6.4 3	9.4 5	16.2 7	35.7 7

1-4000.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

NORTH BRANCH RARITAN RIVER NEAR RARITAN, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
	23	21	25	27	25	24	25	22	16	31
1924	34.0	35.3	44.9	53.9	55.9	68.4	88.0	93.3	98.8	322.0
1925	28.0 17	45.7 28	58.3 34	66.4 33	75.0 34	88.3 32	112.0 32	147.0 33	162.0 28	274.0 22
1926	28.0 18	32.0 19	34.9 18	38.4 18	46.0 18	56.6 20	70.2 19	84.6 18	112.0 20	246.0 19
1927	58.0 38	62.3 38	64.6 37	74.0 36	91.6 38	177.0 42	197.0 41	212.0 41	239.0 38	407.0 39
1928	29.0 19	61.7 37	64.6 38	98.5 42	109.0 41	115.0 38	119.0 35	151.0 36	226.0 35	334.0 33
1929	23.0 12	23.3 11	27.0 11	32.3 14	42.1 15	49.6 13	76.5 21	92.6 20	130.0 22	256.0 18
1930	8.0 2	16.3 8	18.1 7	19.7 4	23.4 7	34.6 8	38.7 6	46.1 6	65.4 6	144.0 2
1931	37.0 25	39.7 23	42.6 24	46.5 23	49.5 21	51.6 15	55.2 13	68.3 14	107.0 19	188.0 7
1932	11.0 3	13.3 3	14.7 2	17.9 2	22.4 5	29.7 5	30.9 5	41.7 4	76.9 11	253.0 17
1933	45.0 31	45.3 27	46.3 27	49.7 26	62.1 28	77.3 26	111.0 30	171.0 38	243.0 39	308.0 29
1934	44.0 29	47.7 29	53.1 29	59.9 31	78.0 35	86.5 29	118.0 33	135.0 30	232.0 36	302.0 28
1935	27.0 15	31.3 17	38.6 21	39.5 20	46.3 19	87.8 31	91.4 26	149.0 34	134.0 23	319.0 30
1936	33.0 22	34.0 20	35.1 19	38.6 19	45.0 17	53.9 16	60.1 14	67.6 13	90.8 13	276.0 23
1937	48.0 34	49.3 33	53.3 30	57.2 29	61.3 27	101.0 35	118.0 34	124.0 29	153.0 26	252.0 14
1938	82.0 42	84.0 42	87.0 42	89.8 41	110.0 42	184.0 43	226.0 43	287.0 43	351.0 42	420.0 40
1939	25.0 13	26.0 12	27.6 13	31.1 13	37.8 12	45.2 12	51.4 12	54.1 11	69.2 8	206.0 8
1940	60.0 39	66.7 39	77.9 41	82.0 39	92.3 39	129.0 39	147.0 38	149.0 35	202.0 33	342.0 34
1941	22.0 10	22.3 10	23.9 10	23.9 10	27.0 8	33.9 7	47.4 10	55.6 12	67.9 7	181.0 5
1942	46.0 32	48.7 31	60.3 35	76.9 37	85.2 37	91.5 34	111.0 31	146.0 32	361.0 43	421.0 41
1943	40.0 26	40.0 24	42.0 22	46.7 24	53.2 24	63.0 21	79.7 22	108.0 26	164.0 29	282.0 26
1944	15.0 8	16.0 7	19.4 9	19.9 5	23.1 6	33.4 6	50.2 11	51.7 9	76.6 10	258.0 19
1945	93.0 43	99.3 43	111.0 43	123.0 43	136.0 43	170.0 41	208.0 42	262.0 42	269.0 41	364.0 37
1946	48.0 35	57.3 36	62.4 36	68.5 34	73.4 32	78.3 27	87.8 24	89.8 19	134.0 24	252.0 15
1947	50.0 36	51.3 34	52.7 28	56.4 28	57.6 26	69.9 25	96.1 28	121.0 28	198.0 32	353.0 35
1948	52.0 37	52.7 35	54.6 31	59.6 30	63.8 29	67.9 23	84.7 23	99.0 24	138.0 25	402.0 38
1949	27.0 16	28.3 15	29.9 14	33.4 15	40.2 14	42.4 11	42.2 8	44.3 5	49.7 4	173.0 4
1950	36.0 24	36.7 22	37.9 20	41.1 21	51.6 23	55.6 19	64.2 18	68.4 15	103.0 17	278.0 24
1951	68.0 40	72.0 41	76.6 40	82.1 40	98.8 40	145.0 40	192.0 40	204.0 40	211.0 34	432.0 42
1952	68.0 41	70.0 40	71.4 39	73.1 35	74.8 33	89.4 33	174.0 39	178.0 39	237.0 37	441.0 43
1953	25.0 14	26.3 14	27.1 12	28.1 11	34.8 11	35.8 9	46.2 9	53.7 10	71.0 9	226.0 9
1954	23.0 11	26.0 13	30.4 15	30.5 12	39.6 13	53.9 17	63.5 15	93.0 21	106.0 18	244.0 12
1955	14.0 6	15.7 5	18.4 8	20.2 6	28.9 10	51.2 14	63.9 17	95.7 23	267.0 40	363.0 36
1956	47.0 33	49.3 32	54.9 32	64.4 32	70.7 31	113.0 37	121.0 36	143.0 31	169.0 30	280.0 25
1957	15.0 7	16.0 6	17.3 5	20.3 7	22.1 4	23.5 2	26.1 2	30.0 2	46.4 2	269.0 21
1958	32.0 21	32.0 18	33.1 17	34.9 17	49.0 20	81.3 28	94.8 27	108.0 27	154.0 27	283.0 27
1959	40.0 27	41.3 25	42.6 23	45.1 22	64.9 30	87.0 30	101.0 29	103.0 25	124.0 21	267.0 20
1960	44.0 30	48.3 30	58.1 33	78.1 38	83.0 36	106.0 36	147.0 37	161.0 37	195.0 31	323.0 32
1961	42.0 28	43.3 26	45.7 26	49.2 25	50.9 22	53.9 18	63.6 16	71.5 16	96.2 15	253.0 16
1962	29.0 20	29.7 16	31.0 16	34.4 16	44.7 16	65.3 22	73.4 20	78.4 17	95.2 14	232.0 11
1963	12.0 5	13.7 4	15.7 4	20.5 9	27.5 9	36.5 10	39.8 7	47.1 7	62.6 5	188.0 6
1964	7.5 1	7.7 1	8.9 1	10.4 1	13.4 1	20.6 1	22.7 1	27.9 1	46.5 3	171.0 3
1965	16.0 9	16.7 9	18.0 6	20.4 8	21.8 3	24.2 3	26.3 3	33.0 3	42.3 1	127.0 1
1966	11.0 4	12.0 2	15.1 3	18.6 3	20.9 2	25.5 4	30.0 4	47.8 8	89.4 12	226.0 10
MEAN	35.872	39.221	42.932	48.258	55.921	73.337	89.930	106.842	145.718	282.279
VARIANCE	383.155	424.672	496.009	650.340	789.417	1707.725	2680.858	3720.827	6502.609	6290.566
STD DEV	19.574	20.608	22.271	25.502	28.097	41.325	51.777	60.999	80.639	79.313
SKENNESS	.842	.753	.779	.766	.753	1.110	.990	1.046	.890	.266
SE OF SKEW	.361	.361	.361	.361	.361	.361	.361	.361	.361	.361
SER CORR	.100	.113	.077	.054	.043	.010	.053	-.042	-.044	.093
C OF VAR	.546	.525	.519	.528	.502	.563	.576	.571	.553	.281

LOGS

MEAN OF	1.485	1.529	1.571	1.620	1.691	1.800	1.883	1.959	2.098	2.433
VAR OF	.070	.064	.060	.060	.054	.060	.066	.064	.061	.016
STD DEV OF	.264	.253	.246	.245	.233	.244	.257	.254	.246	.128
SKEW OF	-.538	-.490	-.432	-.301	-.341	-.066	-.173	-.141	-.094	-.444
SE OF SKEW OF	.361	.361	.361	.361	.361	.361	.361	.361	.361	.361
SER CORR OF	.181	.215	.193	.154	.147	.108	.174	.073	.047	.166
C OF VAR OF	.178	.165	.157	.151	.138	.136	.137	.130	.117	.053

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	5.856	7.115	8.358	9.914	12.332	16.616	17.862	22.028	32.171	124.179
20.00	10.309	12.056	13.752	15.745	19.328	24.782	28.023	34.053	48.522	161.237
10.00	13.621	15.657	17.636	19.921	24.257	30.595	35.388	42.724	60.198	183.658
5.00	18.695	21.104	23.471	26.209	31.578	39.402	46.655	55.952	77.908	213.260
2.00	32.219	35.418	38.747	42.930	50.563	63.500	77.696	92.341	126.367	276.986
1.25	51.405	55.580	60.383	67.552	77.547	101.451	126.310	149.473	202.405	348.812
1.11	63.742	68.571	74.485	84.296	95.376	129.159	161.302	190.804	257.630	388.882
1.04	78.514	84.217	91.689	105.529	117.484	166.660	207.887	246.136	331.971	432.972
1.02	88.843	95.239	103.970	121.260	133.544	196.217	243.977	289.248	390.249	461.966
1.01	98.583	105.706	115.769	136.845	149.213	227.042	281.045	333.753	450.746	488.249

1-4000.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NORTH BRANCH RARITAN RIVER NEAR RARITAN, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1924	3700.0 22	2010.0 26	1520.0 19	1010.0 18	779.0 22	711.0 13	602.0 12	526.0 14	519.0 8	323.0 16
1925	3270.0 29	2170.0 20	1670.0 8	1410.0 6	1060.0 5	768.0 8	579.0 14	472.0 24	373.0 30	246.0 31
1926	3400.0 27	1600.0 38	1060.0 34	817.0 31	655.0 32	506.0 31	403.0 35	431.0 30	390.0 28	254.0 30
1927	2680.0 38	1780.0 31	1040.0 35	696.0 37	549.0 35	440.0 35	438.0 30	427.0 31	364.0 31	298.0 21
1928	4330.0 15	2800.0 10	1570.0 16	999.0 21	897.0 10	867.0 4	710.0 8	645.0 6	580.0 3	490.0 2
1929	3940.0 18	1940.0 27	1170.0 31	1010.0 19	777.0 23	626.0 19	570.0 17	503.0 17	409.0 22	255.0 28
1930	3340.0 28	1610.0 35	933.0 38	621.0 40	461.0 40	355.0 41	347.0 38	321.0 38	283.0 38	186.0 39
1931	2800.0 35	1420.0 40	898.0 40	570.0 42	419.0 43	351.0 43	322.0 41	308.0 40	280.0 39	197.0 37
1932	3600.0 24	1750.0 32	1130.0 32	723.0 32	531.0 36	367.0 39	298.0 43	285.0 42	230.0 43	138.0 43
1933	5190.0 12	2610.0 11	1410.0 22	1070.0 15	834.0 13	642.0 18	554.0 20	473.0 23	473.0 13	376.0 4
1934	6060.0 8	3240.0 7	1580.0 14	861.0 29	679.0 29	554.0 27	455.0 29	408.0 34	342.0 35	257.0 27
1935	3200.0 30	1610.0 36	968.0 37	641.0 38	509.0 38	407.0 37	379.0 36	372.0 35	351.0 35	258.0 26
1936	7190.0 2	4200.0 5	2370.0 5	1840.0 3	1420.0 1	1010.0 1	762.0 2	703.0 3	576.0 4	344.0 10
1937	3740.0 21	1610.0 37	970.0 36	831.0 30	708.0 25	587.0 23	519.0 24	474.0 22	421.0 20	269.0 25
1938	7040.0 4	4500.0 2	2320.0 6	1210.0 9	795.0 20	549.0 29	557.0 19	485.0 10	395.0 25	349.0 8
1939	3070.0 32	1890.0 30	1350.0 25	1030.0 17	873.0 11	763.0 10	761.0 3	644.0 7	545.0 7	329.0 15
1940	7110.0 3	2950.0 8	1640.0 10	1080.0 14	862.0 12	751.0 11	647.0 10	579.0 10	435.0 17	271.0 23
1941	2860.0 34	1680.0 34	912.0 39	641.0 39	516.0 37	464.0 34	418.0 33	422.0 32	379.0 29	234.0 33
1942	5780.0 9	3370.0 6	2770.0 2	1970.0 2	1110.0 3	793.0 7	575.0 15	456.0 27	390.0 26	306.0 19
1943	3990.0 17	2360.0 16	1600.0 13	961.0 24	646.0 33	606.0 20	568.0 18	560.0 11	473.0 14	345.0 9
1944	4160.0 16	2140.0 21	1190.0 30	882.0 28	755.0 24	685.0 15	572.0 16	517.0 15	422.0 19	270.0 24
1945	2720.0 37	1900.0 29	1400.0 23	1190.0 10	832.0 14	556.0 25	548.0 21	478.0 21	435.0 18	333.0 12
1946	6220.0 7	2850.0 9	1520.0 20	947.0 26	831.0 15	602.0 21	486.0 27	468.0 25	450.0 16	351.0 7
1947	2260.0 42	1330.0 42	1090.0 33	716.0 34	700.0 27	575.0 24	529.0 23	485.0 19	397.0 24	254.0 29
1948	4560.0 13	2540.0 12	1710.0 7	1150.0 11	934.0 8	840.0 6	788.0 1	714.0 1	575.0 5	389.0 3
1949	7000.0 5	4570.0 1	2480.0 4	1750.0 4	1230.0 2	898.0 2	721.0 6	633.0 8	493.0 11	282.0 22
1950	1980.0 44	1270.0 43	803.0 43	576.0 41	421.0 42	401.0 38	340.0 39	314.0 39	273.0 40	171.0 41
1951	3460.0 25	2340.0 17	1630.0 11	1100.0 13	815.0 17	689.0 14	632.0 11	553.0 12	510.0 9	340.0 11
1952	5630.0 10	2540.0 13	1660.0 9	1140.0 12	793.0 21	764.0 9	720.0 7	671.0 4	663.0 1	496.0 1
1953	3860.0 20	2030.0 25	1570.0 15	1220.0 7	992.0 6	842.0 5	752.0 4	711.0 2	641.0 2	371.0 5
1954	2090.0 43	1060.0 44	723.0 44	504.0 44	407.0 44	323.0 44	317.0 42	284.0 43	260.0 41	172.0 40
1955	9550.0 1	4340.0 4	3280.0 1	1990.0 1	1080.0 4	596.0 22	413.0 34	410.0 33	362.0 32	304.0 20
1956	6150.0 6	4420.0 3	2570.0 3	1410.0 5	934.0 9	657.0 17	591.0 13	516.0 16	499.0 10	353.0 6
1957	1150.0 31	2390.0 15	1550.0 17	1000.0 20	703.0 26	532.0 30	478.0 28	444.0 29	401.0 23	243.0 32
1958	3900.0 19	2110.0 22	1360.0 24	981.0 22	797.0 19	750.0 12	701.0 9	656.0 5	561.0 6	327.0 14
1959	2760.0 36	1370.0 41	849.0 41	528.0 43	428.0 41	355.0 42	329.0 40	304.0 41	300.0 37	212.0 35
1960	3430.0 26	2100.0 23	1320.0 26	907.0 27	658.0 31	554.0 26	530.0 22	530.0 13	455.0 15	332.0 13
1961	2520.0 40	1750.0 33	1600.0 12	1210.0 8	958.0 7	870.0 3	730.0 5	601.0 9	484.0 12	308.0 18
1962	3690.0 23	2030.0 24	1440.0 21	964.0 23	829.0 16	675.0 16	515.0 25	456.0 28	350.0 34	211.0 36
1963	2500.0 41	1930.0 28	1270.0 28	949.0 25	695.0 28	500.0 32	420.0 32	352.0 36	309.0 36	192.0 38
1964	2580.0 39	1440.0 39	838.0 42	721.0 33	620.0 34	491.0 33	434.0 31	460.0 26	390.0 27	231.0 34
1965	5270.0 11	2330.0 18	1280.0 27	701.0 36	480.0 39	356.0 40	294.0 44	252.0 44	204.0 44	120.0 44
1966	3060.0 33	2280.0 19	1260.0 29	710.0 35	677.0 30	427.0 36	370.0 37	324.0 37	242.0 42	146.0 42
1967	4440.0 14	2430.0 14	1550.0 18	1060.0 16	801.0 18	553.0 28	515.0 26	484.0 20	416.0 21	311.0 17
MEAN	4184.316	2331.591	1473.273	1006.750	760.227	604.727	527.023	479.795	415.909	282.704
VARIANCE	2985544.000	825595.500	306441.687	130526.437	49558.625	29998.531	20470.875	15415.945	11990.941	6794.133
STD DEV	1727.873	908.623	553.572	361.284	222.618	173.201	143.076	124.161	109.503	82.427
SKENNESS	1.262	1.239	1.358	1.175	.579	.237	.129	.142	.204	.320
SE OF SKEW	.357	.357	.357	.357	.357	.357	.357	.357	.357	.357
SER CORR	-.174	-.141	-.077	-.153	-.170	.000	.129	.116	.137	.144
C OF VAR	.413	.390	.376	.359	.293	.286	.271	.259	.263	.292

LOGS

MEAN OF	3.590	3.339	3.142	2.978	2.862	2.763	2.705	2.666	2.603	2.432
VAR OF	.027	.024	.022	.021	.017	.017	.015	.014	.014	.018
STD DEV OF	.164	.155	.150	.147	.130	.129	.123	.118	.120	.135
SKEW OF	.457	.464	.396	.272	-.236	-.275	-.301	-.391	-.444	-.595
SE OF SKEW OF	.357	.357	.357	.357	.357	.357	.357	.357	.357	.357
SER CORR OF	-.244	-.210	-.166	-.162	-.137	.036	.147	.127	.156	.187
C OF VAR OF	.046	.046	.048	.049	.045	.047	.045	.044	.046	.056

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	1834.528	1078.501	687.763	464.179	345.553	273.273	246.714	228.561	193.173	114.793
1.05	2201.232	1279.076	819.397	560.922	437.385	347.532	311.144	288.595	246.694	154.577
1.11	2449.349	1413.818	906.614	623.855	493.614	392.887	350.105	324.451	278.686	178.801
1.25	2813.701	1610.462	1032.456	713.252	569.006	453.510	401.759	371.427	320.557	210.762
2.00	3778.954	2125.530	1355.530	936.439	737.190	587.834	514.625	471.716	409.528	278.785
5.00	5286.129	2916.832	1837.906	1256.342	939.333	747.346	646.086	584.311	508.295	353.025
10.00	6406.848	3497.559	2183.665	1477.921	1059.288	840.940	722.035	647.260	562.837	392.911
25.00	7968.727	4298.461	2651.440	1769.415	1198.353	948.417	808.235	716.840	622.457	435.299
50.00	9242.184	4945.508	3022.907	1995.137	1294.386	1021.984	866.634	762.853	661.463	462.233
100.00	10613.340	5637.211	3414.561	2228.354	1384.932	1090.859	920.878	804.781	696.694	485.958

1-4000.00 NORTH BRANCH RARITAN RIVER NEAR RARITAN, N. J.

STATISTICS OF MONTHLY MEANS, 1924-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1924-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	155.1	149.7	2.759	.9651	4.560	.313	2.051	.3437	.2612	.1676	7.385	.635
NOV	269.7	198.6	1.078	.7363	7.929	.493	2.302	.3582	-.2540	.1556	8.289	.596
DEC	306.0	176.0	.5488	.5753	8.996	.505	2.409	.2706	-.1623	.1124	8.672	.512
JAN	339.8	182.0	.9225	.5357	9.989	.576	2.468	.2459	-.3635	.0997	8.886	.609
FEB	413.2	177.1	.7816	.4286	12.15	-.013	2.575	.2005	-.5769	.0779	9.270	.017
MAR	513.2	190.6	1.568	.3714	15.09	.027	2.685	.1464	.4823	.0545	9.667	.016
APR	439.4	206.4	.2815	.4696	12.92	.475	2.592	.2177	-.1056	.0840	9.332	.455
MAY	294.8	168.7	1.164	.5723	8.666	.412	2.404	.2436	.0117	.1013	8.654	.472
JUN	179.1	122.3	1.460	.6830	5.264	.654	2.171	.2622	.4776	.1208	7.815	.691
JUL	152.2	134.0	1.921	.8807	4.474	.600	2.048	.3423	.2310	.1672	7.372	.714
AUG	185.0	224.6	2.777	1.214	5.438	.247	2.053	.4255	.3058	.2072	7.392	.554
SEP	154.1	153.1	1.838	.9934	4.530	.494	2.018	.3833	.2570	.1900	7.265	.682

1-4005.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

RARIAN RIVER AT MANVILLE, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1904	116.0 41	133.0 41	151.0 44	164.0 44	244.0 46	303.0 44	338.0 43	427.0 43	587.0 41	875.0 38
1905	90.0 29	96.0 26	111.0 31	118.0 28	132.0 25	167.0 27	192.0 26	249.0 28	418.0 33	558.0 18
1906	112.0 38	138.0 42	138.0 40	144.0 37	175.0 39	245.0 39	332.0 42	361.0 39	444.0 34	782.0 32
1922	114.0 39	122.0 38	131.0 37	131.0 33	137.0 29	142.0 22	155.0 20	212.0 20	294.0 22	662.0 17
1923	46.0 11	60.0 14	67.7 14	77.2 16	86.3 15	99.5 11	111.0 11	119.0 10	178.0 11	633.0 14
1924	99.0 34	101.0 32	110.0 29	131.0 34	135.0 28	169.0 29	220.0 27	218.0 23	252.0 18	856.0 36
1925	117.0 42	123.0 39	133.0 38	144.0 38	160.0 35	198.0 34	280.0 36	339.0 37	374.0 27	686.0 24
1926	103.0 35	105.0 34	109.0 28	118.0 29	132.0 26	152.0 24	180.0 25	213.0 21	375.0 28	713.0 27
1927	134.0 43	143.0 43	151.0 45	161.0 42	194.0 43	377.0 46	417.0 44	460.0 45	598.0 43	1090.0 46
1928	196.0 47	198.0 47	211.0 47	231.0 47	246.0 47	267.0 43	282.0 38	366.0 41	536.0 40	880.0 39
1929	89.0 28	107.0 35	113.0 32	118.0 30	139.0 30	154.0 25	220.0 28	300.0 31	394.0 32	755.0 31
1930	42.0 9	47.3 8	50.7 8	57.8 9	64.2 8	77.3 8	80.9 5	96.9 4	144.0 6	345.0 2
1931	68.0 20	75.0 20	78.6 20	82.6 17	87.3 16	94.6 10	108.0 9	135.0 14	239.0 16	505.0 8
1932	25.0 3	28.0 3	31.0 3	32.7 1	42.1 2	56.0 2	62.4 2	88.5 3	169.0 10	682.0 22
1933	84.0 25	88.7 24	96.7 23	107.0 24	139.0 31	176.0 32	273.0 35	427.0 44	621.0 44	808.0 34
1934	78.0 23	88.0 23	107.0 27	117.0 27	165.0 38	175.0 30	265.0 34	315.0 34	518.0 39	753.0 30
1935	94.0 31	98.0 30	111.0 30	113.0 26	127.0 24	176.0 31	235.0 31	319.0 35	300.0 23	825.0 35
1936	62.0 17	67.3 17	69.6 15	70.2 13	83.4 13	106.0 14	119.0 13	132.0 13	184.0 12	670.0 20
1937	116.0 40	124.0 40	133.0 39	139.0 36	147.0 33	257.0 42	295.0 39	305.0 33	376.0 29	668.0 19
1938	142.0 45	144.0 44	150.0 42	156.0 40	194.0 44	446.0 48	582.0 48	791.0 48	929.0 48	1160.0 48
1939	40.0 8	51.7 10	60.6 11	67.2 12	81.1 11	100.0 12	113.0 12	118.0 9	156.0 8	553.0 9
1940	111.0 36	120.0 37	150.0 43	157.0 41	178.0 40	256.0 41	322.0 41	323.0 36	463.0 35	887.0 41
1941	38.0 7	40.0 7	42.4 7	44.2 4	47.0 3	56.9 4	89.1 6	105.0 7	153.0 7	452.0 5
1942	86.0 26	96.7 29	125.0 36	174.0 45	183.0 42	202.0 35	245.0 32	362.0 40	774.0 47	988.0 44
1943	53.0 14	65.0 16	73.7 17	83.2 19	100.0 18	120.0 18	152.0 19	213.0 22	381.0 30	699.0 25
1944	25.0 4	26.0 2	29.0 1	35.1 2	40.1 1	63.9 5	122.0 14	121.0 11	186.0 13	685.0 23
1945	212.0 48	236.0 48	243.0 48	255.0 48	289.0 48	386.0 47	516.0 47	643.0 47	717.0 46	944.0 42
1946	70.0 21	103.0 33	115.0 33	124.0 32	133.0 27	146.0 23	169.0 22	180.0 18	303.0 24	589.0 12
1947	94.0 32	96.0 27	100.0 26	102.0 23	112.0 21	162.0 26	230.0 30	301.0 32	480.0 36	863.0 37
1948	56.0 33	96.0 28	98.3 24	111.0 25	125.0 23	136.0 20	170.0 23	219.0 24	317.0 25	979.0 43
1949	54.0 15	56.7 13	65.4 13	74.8 15	84.1 14	93.6 9	100.0 7	104.0 6	112.0 3	467.0 6
1950	70.0 22	80.0 21	89.1 21	91.8 21	110.0 20	123.0 19	144.0 18	159.0 16	242.0 17	707.0 26
1951	158.0 46	164.0 46	166.0 46	174.0 46	211.0 45	313.0 45	451.0 46	525.0 46	516.0 38	1080.0 45
1952	141.0 44	145.0 45	148.0 41	152.0 39	160.0 36	206.0 36	419.0 45	425.0 42	595.0 42	1130.0 47
1953	47.0 12	49.7 9	51.0 9	55.9 8	66.8 9	74.5 7	104.0 8	121.0 12	164.0 9	555.0 10
1954	45.0 10	54.3 11	63.7 12	64.3 10	80.3 10	111.0 16	136.0 17	233.0 26	264.0 20	611.0 13
1955	28.0 5	33.3 5	40.3 6	44.6 5	54.6 6	107.0 15	131.0 15	220.0 25	646.0 45	886.0 40
1956	112.0 37	115.0 36	122.0 34	134.0 35	163.0 37	255.0 40	281.0 37	290.0 30	369.0 26	676.0 21
1957	22.0 2	32.3 4	38.3 4	46.6 6	49.5 5	54.1 1	60.1 1	70.3 1	106.0 1	726.0 28
1958	65.0 18	70.3 18	77.9 19	82.6 18	115.0 22	177.0 33	226.0 29	257.0 29	389.0 31	732.0 29
1959	68.0 19	73.0 19	76.0 18	86.1 20	147.0 34	206.0 37	253.0 33	248.0 27	280.0 21	667.0 18
1960	92.0 30	101.0 31	122.0 35	162.0 43	181.0 41	226.0 38	320.0 40	350.0 38	494.0 37	795.0 33
1961	89.0 27	90.0 25	92.1 22	95.6 22	104.0 19	115.0 17	136.0 16	157.0 15	219.0 15	653.0 15
1962	53.0 13	56.7 12	60.4 10	66.7 11	88.9 17	139.0 21	160.0 21	168.0 17	203.0 14	556.0 11
1963	36.0 6	37.0 6	39.3 5	48.8 7	56.7 7	73.7 6	80.5 4	100.0 5	125.0 5	420.0 4
1964	17.0 1	20.3 1	29.7 2	39.4 3	47.7 4	56.4 3	74.3 3	78.4 2	112.0 2	414.0 3
1965	57.0 16	62.0 15	69.6 16	71.4 14	81.3 12	104.0 13	109.0 10	111.0 8	116.0 4	281.0 1
1966	80.0 24	87.3 22	98.9 25	120.0 31	142.0 32	168.0 28	177.0 24	193.0 19	254.0 19	500.0 7
MEAN	83.042	90.512	98.750	107.829	126.258	168.135	213.277	255.585	355.542	718.771
VARIANCE	1853.779	2003.807	2159.243	2474.020	3307.798	8280.805	14720.371	22735.574	38279.891	40088.020
ST'D DEV	43.056	44.764	46.468	49.740	57.513	90.999	121.328	150.783	195.652	200.220
SKEWNESS	.855	.881	.730	.691	.611	1.139	1.104	1.356	.817	.175
SE OF SKEW	.343	.343	.343	.343	.343	.343	.343	.343	.343	.343
SER CORR	.076	.123	.085	.037	.019	.005	.005	-.057	-.018	.122
C OF VAR	.518	.495	.471	.461	.456	.541	.569	.590	.550	.279

LOGS

MEAN OF	1.857	1.900	1.943	1.984	2.053	2.166	2.262	2.338	2.484	2.839
VAR OF	.062	.055	.050	.046	.046	.054	.060	.063	.063	.017
ST'D DEV OF	.249	.235	.223	.215	.214	.233	.246	.252	.251	.131
SKEW OF	-.549	-.544	-.483	-.386	-.413	-.057	-.015	-.018	-.162	-.717
SE OF SKEW OF	.343	.343	.343	.343	.343	.343	.343	.343	.343	.343
SER CORR OF	.072	.118	.081	.044	.018	.001	.034	-.006	.067	.220
C OF VAR OF	.134	.124	.115	.108	.104	.108	.109	.108	.101	.046

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

REGURANCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	15.146	18.299	22.208	26.503	30.957	41.100	48.808	56.045	74.298	293.815
20.00	25.859	30.290	35.325	40.558	47.579	60.076	72.034	83.592	114.875	398.530
10.00	33.644	38.819	44.472	50.225	59.001	73.406	88.594	103.379	144.032	461.654
5.00	45.355	51.452	57.863	64.294	75.595	93.395	113.764	133.628	188.348	543.964
2.00	75.714	83.462	91.405	99.524	116.937	147.231	183.260	217.932	309.338	714.610
1.25	117.378	126.323	136.196	147.260	172.406	230.436	294.604	354.558	497.022	892.348
1.11	143.548	152.831	164.080	177.626	207.348	290.406	377.271	456.829	631.357	983.573
1.04	174.384	183.771	196.943	214.206	249.083	370.854	490.833	598.155	809.614	1076.835
1.02	195.662	204.970	219.711	240.118	278.409	433.809	581.584	711.642	947.391	1133.958
1.01	215.533	224.675	241.091	264.913	306.289	499.127	677.312	831.788	1088.707	1182.784

1-4005.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

KARITAN RIVER AT MANVILLE, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1504	17800.0 7	12800.0 2	7570.0 3	4280.0 3	2510.0 6	1570.0 25	1480.0 17	1400.0 15	1410.0 8	1010.0 4
1505	14600.0 10	6860.0 16	3820.0 26	3150.0 11	1990.0 24	1330.0 35	1430.0 22	1300.0 20	1130.0 19	785.0 19
1906	10500.0 20	5280.0 33	3480.0 33	2180.0 36	1840.0 30	1610.0 24	1270.0 29	1250.0 23	1060.0 26	732.0 22
1922	7200.0 39	4240.0 42	3170.0 35	2400.0 32	2090.0 21	1670.0 19	1430.0 23	1260.0 21	1070.0 24	686.0 29
1922	11100.0 18	6080.0 21	4480.0 14	3020.0 16	2270.0 16	1560.0 26	1220.0 33	1090.0 35	860.0 41	500.0 42
1924	15100.0 8	7510.0 11	4490.0 13	3080.0 13	2250.0 17	1950.0 10	1730.0 11	1610.0 10	1500.0 6	918.0 8
1925	7500.0 37	5500.0 28	4380.0 15	3620.0 8	2810.0 3	1940.0 12	1470.0 18	1200.0 28	920.0 35	610.0 35
1926	9000.0 30	5110.0 35	3080.0 37	2530.0 28	1930.0 27	1360.0 33	1130.0 37	1140.0 33	1010.0 28	698.0 27
1927	5500.0 48	3630.0 46	2420.0 46	1750.0 42	1430.0 44	1210.0 37	1170.0 34	1170.0 30	1000.0 30	797.0 18
1928	14800.0 9	9280.0 7	5160.0 8	3090.0 12	2500.0 8	2400.0 2	1930.0 2	1740.0 3	1600.0 3	1320.0 1
1929	9190.0 27	5480.0 29	3530.0 30	2770.0 21	1910.0 28	1670.0 20	1540.0 15	1320.0 19	1060.0 25	672.0 31
1930	7730.0 36	4730.0 41	2930.0 39	1970.0 38	1520.0 40	1200.0 38	1150.0 35	1050.0 37	899.0 37	568.0 38
1931	6070.0 45	3150.0 48	1940.0 49	1380.0 49	1080.0 48	879.0 47	822.0 46	783.0 46	717.0 45	479.0 43
1932	9460.0 24	5630.0 26	3520.0 31	2170.0 37	1540.0 39	1030.0 45	865.0 45	836.0 44	642.0 47	367.0 47
1933	18500.0 3	8880.0 8	4870.0 9	3720.0 7	2460.0 9	1730.0 17	1460.0 20	1250.0 24	1320.0 10	1020.0 3
1934	14000.0 12	7740.0 10	3900.0 23	2210.0 35	1810.0 32	1480.0 29	1230.0 31	1110.0 34	923.0 34	658.0 32
1935	6780.0 41	4800.0 40	2950.0 38	1950.0 39	1580.0 38	1140.0 42	999.0 40	971.0 40	870.0 40	615.0 34
1936	14200.0 11	9420.0 6	5520.0 7	4540.0 2	3410.0 1	2560.0 1	1910.0 3	1820.0 1	1530.0 4	883.0 10
1937	10500.0 21	4900.0 37	2420.0 41	2270.0 34	1950.0 26	1630.0 23	1390.0 24	1240.0 25	1100.0 22	686.0 28
1938	21600.0 1	13300.0 1	7610.0 2	4270.0 4	2510.0 7	1680.0 18	1650.0 12	1410.0 12	1110.0 21	969.0 5
1939	8000.0 35	5600.0 27	3800.0 27	2900.0 20	2430.0 11	2060.0 6	2040.0 1	1720.0 5	1480.0 7	862.0 12
1940	18200.0 4	8190.0 9	4530.0 10	3060.0 14	2390.0 13	2100.0 5	1770.0 10	1620.0 8	1210.0 14	729.0 23
1941	10500.0 22	4900.0 38	2660.0 42	1800.0 40	1470.0 41	1280.0 36	1150.0 36	1160.0 31	1010.0 29	605.0 22
1942	13500.0 13	6980.0 14	5890.0 6	4250.0 5	2530.0 5	1660.0 21	1230.0 32	969.0 41	916.0 36	704.0 26
1943	8360.0 33	7250.0 13	4520.0 11	2620.0 26	1690.0 36	1540.0 27	1470.0 19	1410.0 13	1190.0 16	833.0 16
1944	12100.0 16	6020.0 22	3510.0 32	2460.0 29	2000.0 23	1840.0 13	1530.0 16	1390.0 16	1120.0 20	706.0 24
1945	9100.0 28	6260.0 20	4190.0 17	3230.0 10	2230.0 18	1500.0 28	1430.0 21	1260.0 22	1180.0 17	889.0 9
1946	9410.0 25	6880.0 15	3760.0 28	2580.0 27	1900.0 29	1640.0 22	1290.0 27	1210.0 27	1080.0 23	839.0 15
1947	4160.0 49	3130.0 49	2580.0 43	1740.0 43	1620.0 37	1360.0 34	1280.0 28	1180.0 29	989.0 31	625.0 33
1948	6920.0 40	5360.0 30	3860.0 25	3010.0 17	2380.0 14	2050.0 7	1900.0 4	1710.0 6	1400.0 11	939.0 6
1949	18200.0 5	10800.0 4	5930.0 5	4190.0 6	3010.0 2	2260.0 3	1820.0 9	1610.0 9	1260.0 12	706.0 25
1950	6450.0 44	3810.0 44	2550.0 44	1740.0 44	1230.0 46	1170.0 40	978.0 42	873.0 42	753.0 43	457.0 44
1951	11100.0 19	5890.0 23	4060.0 20	2760.0 22	1980.0 25	1740.0 15	1590.0 13	1410.0 14	1280.0 11	858.0 13
1952	12600.0 14	7440.0 12	4500.0 12	2990.0 18	2050.0 22	1950.0 11	1840.0 7	1710.0 7	1720.0 1	1260.0 2
1953	8180.0 34	5330.0 31	4010.0 21	2920.0 19	2410.0 12	1990.0 8	1830.0 8	1740.0 4	1610.0 2	929.0 7
1954	5680.0 47	3210.0 47	2140.0 48	1480.0 48	1070.0 49	815.0 49	779.0 47	697.0 47	657.0 46	430.0 46
1955	21300.0 2	10400.0 5	7750.0 1	4990.0 1	2700.0 4	1470.0 30	1030.0 39	1040.0 38	929.0 32	760.0 20
1956	18000.0 6	11800.0 3	6290.0 4	3420.0 9	2180.0 20	1730.0 16	1560.0 14	1340.0 18	1230.0 13	853.0 14
1957	9040.0 29	6640.0 18	4240.0 16	2660.0 23	1830.0 31	1390.0 32	1240.0 30	1150.0 32	1020.0 27	599.0 37
1958	11300.0 17	6270.0 19	3960.0 22	2640.0 24	2230.0 19	1990.0 9	1870.0 5	1770.0 2	1510.0 5	866.0 11
1959	6720.0 42	3750.0 45	2320.0 47	1630.0 46	1410.0 45	1050.0 44	926.0 44	844.0 43	824.0 42	563.0 39
1960	8920.0 31	5880.0 24	3610.0 29	2410.0 30	1700.0 34	1450.0 31	1360.0 25	1370.0 17	1150.0 18	822.0 17
1961	6560.0 43	4800.0 39	4160.0 18	3040.0 15	2460.0 10	2240.0 4	1870.0 6	1530.0 11	1200.0 15	757.0 21
1962	8790.0 32	5780.0 25	4150.0 19	2620.0 25	2280.0 15	1820.0 14	1360.0 26	1230.0 26	927.0 33	543.0 40
1963	5940.0 46	4990.0 36	3170.0 36	2290.0 33	1690.0 35	1170.0 41	972.0 43	826.0 45	740.0 44	447.0 45
1964	7340.0 38	3870.0 43	2490.0 45	1660.0 45	1460.0 42	1090.0 43	980.0 41	1070.0 36	895.0 38	524.0 41
1965	10200.0 23	5220.0 34	3270.0 34	1790.0 41	1220.0 47	907.0 46	738.0 48	649.0 48	511.0 48	309.0 49
1966	5240.0 26	5300.0 32	2860.0 40	1560.0 47	1450.0 43	868.0 48	738.0 49	637.0 49	478.0 49	323.0 48
1967	12200.0 15	6650.0 17	3890.0 24	2410.0 31	1770.0 33	1190.0 39	1120.0 38	1010.0 39	879.0 39	676.0 30
MEAN	10802.855	6382.039	4006.326	2718.367	2003.265	1569.775	1366.673	1246.633	1079.163	722.163
VARIANCE	18804544.000	5743882.000	1843884.000	745088.625	256567.812	174551.125	125125.812	97577.687	82107.125	45349.852
STD DEV	4336.418	2396.640	1357.897	863.185	506.525	417.793	353.731	312.374	286.543	212.955
SKENNESS	.878	1.216	1.146	.687	.308	.204	.055	.012	.198	.422
SE OF SKEW	.340	.340	.340	.340	.340	.340	.340	.340	.340	.340
SER CORR	-.016	-.048	-.069	-.070	-.058	.119	.220	.169	.159	.165
C OF VAR	.401	.376	.339	.318	.253	.266	.259	.251	.266	.295

LOGS

MEAN OF	4.001	3.778	3.580	3.413	3.288	3.180	3.120	3.081	3.017	2.839
VAR OF	.028	.023	.019	.019	.013	.015	.014	.013	.015	.018
STD DEV OF	.169	.152	.139	.137	.113	.121	.119	.116	.122	.136
SKEN OF	.152	.319	.248	.008	-.337	-.377	-.420	-.565	-.593	-.562
SE OF SKEW OF	.340	.340	.340	.340	.340	.340	.340	.340	.340	.340
SER CORR OF	-.015	-.064	-.094	-.034	-.023	.185	.270	.215	.233	.237
C OF VAR OF	.042	.040	.039	.040	.035	.038	.038	.038	.041	.048

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENT INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	4243.254	2890.131	1916.824	1246.950	990.598	734.474	643.956	581.353	478.909	294.487
1.05	5385.070	3490.978	2301.435	1543.828	1232.424	931.502	817.420	747.696	626.876	394.944
1.11	6136.504	3886.004	2549.087	1730.242	1376.390	1049.789	920.998	846.028	715.161	456.199
1.25	7212.477	4452.230	2897.864	1986.638	1564.853	1205.418	1056.552	973.167	829.964	537.201
2.00	9927.906	5888.949	3755.602	2588.879	1967.929	1540.076	1344.986	1236.440	1069.225	710.591
5.00	13856.789	7997.043	4959.223	3375.607	2423.890	1919.566	1666.549	1516.051	1324.292	901.942
10.00	16588.297	9485.734	5778.793	3878.725	2681.267	2133.446	1845.019	1664.110	1459.265	1005.914
25.00	20183.594	11474.891	6842.586	4498.914	2968.371	2371.293	2041.023	1820.406	1601.380	1117.493
50.00	22965.164	13036.754	7656.699	4951.801	3159.974	2529.431	2169.845	1919.368	1691.052	1189.066
100.00	25834.664	14668.395	8490.090	5398.348	3335.911	2674.127	2286.644	2006.419	1769.671	1252.599

1-4005.00 RARITAN RIVER AT MANVILLE, N. J.

STATISTICS OF MONTHLY MEANS, 1904-06; 1922-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1904-06; 1922-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	412.2	477.0	2.771	1.157	4.745	.332d	2.430	.3848	.4950	.1583	7.478	.629d
NOV	648.3	532.1	1.389	.8207	7.463	.305	2.658	.3897	-.1906	.1466	8.179	.540
DEC	795.1	480.6	.6035	.6044	9.153	.442	2.813	.2921	-.2788	.1039	8.654	.504
JAN	902.4	483.7	.8235	.5361	10.39	.510	2.890	.2530	-.4524	.0875	8.891	.558
FEB	1073.	469.1	.7233	.4372	12.35	-.108	2.987	.2038	-.5044	.0682	9.191	-.101
MAR	1386.	478.9	1.194	.3456	15.95	-.053	3.118	.1454	.0503	.0466	9.593	-.067
APR	1107.	528.6	.3322	.4775	12.74	.458	2.990	.2272	-.3099	.0760	9.200	.463
MAY	688.7	398.9	1.134	.5792	7.928	.450	2.770	.2474	.0160	.0893	8.523	.466
JUN	422.8	309.8	1.500	.7328	4.867	.660	2.532	.2811	.4377	.1110	7.789	.707
JUL	399.3	410.9	2.704	1.029	4.597	.530	2.449	.3518	.4676	.1437	7.534	.672
AUG	453.6	528.8	2.582	1.166	5.222	.161	2.450	.4201	.2770	.1715	7.537	.450
SEP	398.9	395.1	1.745	.9905	4.592	.385	2.415	.4073	.1983	.1686	7.432	.633

d Serial correlation coefficients computed from non-continuous arrays of monthly mean discharges.

1-4009.32 BALDWIN CREEK AT BALDWIN LAKE NEAR PENNINGTON, N. J.

Location.--Lat 40°20'26", long 74°46'48", 200 ft upstream from Earthfill Dam.

Drainage area.--2.52 sq mi as determined by Soil Conservation Service.

Remarks.--Regulation reduces flood peaks.

DURATION TABLE OF DAILY DISCHARGE

CLASS	C	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
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1963	154		2			1	2	6	23	7	17	10	16	25	14	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	651.3
1964	29	24	26		3	3	2		11	4	9	3	10	8	8	9	23	29	23	14	11	13	5	15	7		2	4		1				1055.5	
1965	24	92	1	5	5	5	7	3	26	12	8	1	7	10	9	17	26	26	26	13	14	8	4	7	3	4	1		1					766.2	
1966	111		3	1	3	6	5		34	28	28	11	17	24	17	10	11	16	10	2	8	4	3	7	2	1	1		1					544.4	
1967	4				1	1			2	2	8	2	18	23	35	33	31	59	43	37	22	16	9	5	7	3	3	1	2	1	1	1		1607.3	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	224	1826	100.0	9	0.20	53	1131	61.9	18	2.7	114	416	22.8	27	34	6	17	.9
1	0.01	284	1602	87.7	10	0.30	70	1078	59.0	19	3.6	71	302	16.5	28	44	6	11	.6
2	0.02	30	1318	72.2	11	0.40	27	1008	55.2	20	4.7	63	231	12.7	29	59	2	5	.2
3	0.03	8	1288	70.5	12	0.50	68	981	53.7	21	6.3	47	168	9.2	30	78	1	3	.1
4	0.04	12	1280	70.1	13	0.70	90	913	50.0	22	8.3	25	121	6.6	31	100	2	2	.1
5	0.05	15	1268	69.4	14	0.90	83	823	45.1	23	11.0	36	96	5.3	32				
6	0.07	17	1253	68.6	15	1.20	79	740	40.5	24	15.0	25	60	3.3	33				
7	0.09	0	1236	67.7	16	1.50	103	661	36.2	25	19.0	10	35	1.9	34				
8	0.10	96	1227	67.2	17	2.00	142	558	30.6	26	25.0	8	25	1.4					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

BALDWIN CREEK AT BALDWIN LAKE NEAR PENNINGTON, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1963	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	2.0 2
1964	0.0 2	0.0 2	0.0 2	0.0 2	0.0 2	0.0 2	0.0 2	0.1 4	0.1 2	2.7 3
1965	0.0 3	0.0 3	0.0 3	0.0 3	0.0 3	0.0 3	0.0 3	0.0 2	0.1 2	1.5 1
1966	0.0 4	0.0 4	0.0 4	0.0 4	0.0 4	0.0 4	0.0 4	0.0 3	0.2 4	3.0 4

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BALDWIN CREEK AT BALDWIN LAKE NEAR PENNINGTON, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1963	49.0 5	27.3 5	17.1 5	10.3 5	8.4 4	6.2 4	5.0 4	4.4 4	3.5 4	1.8 4
1964	65.0 3	37.0 3	20.1 4	11.1 3	9.4 3	7.1 2	6.0 2	6.5 1	5.4 1	2.9 2
1965	56.0 4	29.3 4	20.3 3	11.1 4	8.3 5	6.2 5	5.4 3	5.3 3	4.0 3	2.1 3
1966	107.0 2	49.7 2	27.2 1	14.3 2	11.8 1	6.3 3	4.7 5	4.1 5	3.0 5	1.6 5
1967	115.0 1	53.7 1	27.2 2	15.2 1	10.4 2	7.5 1	6.7 1	5.8 2	5.2 2	4.4 1

1-4009.32 BALDWIN CREEK AT BALDWIN LAKE NEAR PENNINGTON, N. J.

STATISTICS OF MONTHLY MEANS, 1963-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1963-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	1.355	2.733	2.223	2.017	4.392	.968	-.8804	1.172	.5070	-1.331		.858
NOV	2.093	2.015	.3753	.9629	6.782	-.120	-.0411	.7931	-.9323	-19.29		-.359
DEC	2.922	2.132	.7121	.7296	9.471	-.267	.3413	.4085	-.9567	1.197		.458
JAN	4.000	2.857	1.091	.7141	12.97	.004	.5102	.3221	.0034	.6312		.485
FEB	5.513	2.298	.7757	.4168	17.87	-.711	.7126	.1741	.6384	.2443		-.803
MAR	6.452	2.498	.9003	.3872	20.91	-.674	.7853	.1599	.7282	.2036		-.699
APR	2.773	2.863	1.716	1.033	8.988	-.337	.2657	.4384	.4533	.1650		-.259
MAY	1.760	1.393	-.0900	.7912	5.705	.029	.0579	.5139	-.6375	.8872		.265
JUN	.2930	.4990	2.093	1.703	.9497	.728	-1.112	.8164	.7087	-.7339		.790
JUL	1.503	2.635	1.971	1.754	4.871	.951						
AUG	1.662	3.535	2.228	2.127	5.387	.970						
SEP	.5263	.5728	.4323	1.088	1.706	.554	-.7882	.9437	-.4947	-1.197		

Note.--Some statistics of logs not computed; monthly mean discharge for months of July and August equals zero 1 or more times during period of record.

1-4010.00 STONY BROOK AT PRINCETON, N. J.

Location.--Lat 40°19'59", long 74°40'56", 12 ft downstream from bridge on U.S. Highway 206.

Drainage area.--44.5 sq mi.

Remarks.--Regulation since July 1959 reduces flood peaks.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	22	23	24
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1954					11	22	14	3	9	7	15	12	9	21	20	16	28	27	35	30	26	25	10	7	6	4	4	2	1	1				13229.8	
1955		1	1	4	3	3	4	2	1	3	4	3	4	20	29	28	19	30	21	25	32	35	33	23	13	4	4	7	3	1	2	1	1	1	24067.1
1956										8	14	24	19	12	24	25	16	22	25	21	28	27	19	21	26	7	13	6	3	3	3				22528.6
1957				2	17	8	15	9	21	21	21	14	14	8	18	16	16	16	20	27	24	27	12	18	8	2	7	2	1		1			15214.7	
1958						4	8	10	5	13	21	30	20	25	27	19	14	17	30	18	22	16	16	13	13	7	9	3	4		1			27113.1	
1959									3	10	11	10	28	22	17	23	31	40	38	29	28	26	17	13	7	5	1	2	3	1				15525.1	
1960									4	16	23	17	13	15	19	25	23	26	44	33	40	15	22	10	6	6	3	3	1	1	1	1			24295.5
1961										2	11	12	19	22	24	28	45	41	32	33	31	22	13	7	10	5	2	2	4					29860.6	
1962										11	20	21	23	41	24	27	35	34	30	28	19	11	14	8	5	3	4	2	2	1	1				20234.4
1963							6	4	24	28	10	9	11	20	31	21	33	25	34	28	15	24	10	10	9	8	1	1	2	1					13918.0
1964							4	10	1	10	37	10	23	14	18	19	17	17	14	16	31	33	31	14	19	9	10	4	2	2		1			17923.5
1965							4	14	9	23	37	19	21	30	16	10	9	11	11	26	30	26	27	11	18	5	6	1				1			11974.0
1966	21					22	9	9	1	17	13	27	22	19	23	21	28	21	16	24	20	19	8	6	6	6	3	1	1		3				10403.3
1967																	1	7	18	14	12	31	46	49	40	49	34	24	11	9	11	4	3	1	29444.8

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	21	5113	100.0	9	0.60	128	4868	95.2	18	14.0	326	2793	54.6	27	290	69	173	3.3
1	0.03	1	5092	99.6	10	0.90	180	4740	92.7	19	19.0	407	2467	48.2	28	410	41	104	2.0
2	0.04	1	5091	99.6	11	1.30	180	4560	89.2	20	27.0	449	2060	40.3	29	570	26	63	1.2
3	0.05	4	5090	99.6	12	1.80	200	4390	85.7	21	39.0	384	1611	31.5	30	810	20	27	.7
4	0.08	5	5086	99.5	13	2.50	237	4180	81.8	22	53.0	393	1227	24.0	31	1100	11	17	.3
5	0.10	53	5081	99.4	14	3.50	256	3943	77.1	23	75.0	231	844	16.5	32	1600	3	6	.1
6	0.20	51	5078	99.3	15	4.90	307	3687	72.1	24	100.0	228	613	12.0	33	2200	3	3	.0
7	0.10	73	4977	97.3	16	6.90	271	3380	66.1	25	150.0	117	385	7.5	34				
8	0.30	36	4904	95.9	17	9.70	316	3109	60.8	26	210.0	95	268	5.2					

1-4010.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

STONY BROOK AT PRINCETON, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	0.1 3	0.1 3	0.2 5	0.2 4	0.4 7	1.7 6	3.6 7	11.7 9	14.5 8	52.1 6
1955	0.0 1	0.0 1	0.1 2	0.1 2	0.6 4	6.8 9	7.6 9	14.5 10	51.4 13	72.8 12
1956	0.7 8	0.7 8	0.8 8	1.1 8	1.3 8	1.5 4	1.8 4	2.9 5	8.2 5	43.3 4
1957	0.1 4	0.1 4	0.1 3	0.2 3	0.4 3	0.5 2	1.0 2	1.0 1	1.7 1	64.2 10
1958	1.2 11	1.3 11	1.8 12	2.2 11	5.0 11	6.9 10	8.9 10	17.4 12	25.3 10	56.7 8
1959	0.8 9	0.9 9	1.0 9	1.4 9	2.1 9	2.5 8	6.3 8	11.0 7	12.0 6	50.1 5
1960	1.2 10	1.2 10	1.4 10	4.3 13	5.6 12	8.4 13	12.9 13	22.7 13	41.3 12	79.3 13
1961	2.1 13	2.3 13	2.9 13	3.1 12	6.2 13	7.9 11	11.6 12	15.1 11	26.4 11	67.3 11
1962	1.6 12	1.6 12	1.7 11	1.9 10	4.0 10	8.2 12	9.6 11	11.0 8	12.3 7	53.2 7
1963	0.3 7	0.3 7	0.5 7	0.7 7	0.9 7	2.0 7	1.8 5	2.4 3	3.3 3	35.5 2
1964	0.2 5	0.2 5	0.2 4	0.3 5	0.7 5	1.5 5	2.7 6	2.6 4	6.9 4	43.1 3
1965	0.2 6	0.2 6	0.3 6	0.4 6	0.8 6	1.4 3	1.6 3	1.8 2	1.8 2	24.6 1
1966	0.0 2	0.0 2	0.0 1	0.0 1	0.1 1	0.2 1	0.9 1	7.0 6	20.8 9	58.1 9

	1†	3†	7†	14†	30	60	90	120	183	ANNUAL
MEAN	.773	.809	.908	1.325	2.231	3.808	5.408	9.315	17.377	53.869
VARIANCE	.460	.527	.737	1.771	5.237	10.456	18.394	48.440	235.775	229.809
STD DEV	.678	.726	.859	1.331	2.289	3.234	4.289	6.960	15.355	15.159
SKEWNESS	.771	.859	1.040	1.202	.863	.487	.541	.401	1.134	-.195
SE OF SKEW	.661	.661	.637	.637	.616	.616	.616	.616	.616	.616
SER CORR	.400	.393	.385	.472	.473	.179	.444	.333	-.022	.115
C OF VAR	.878	.897	.945	1.004	1.026	.849	.793	.747	.884	.281

LOGS

MEAN OF	-.317	-.306	-.270	-.128	.081	.372	.573	.804	1.043	1.713
VAR OF	.234	.244	.256	.281	.299	.255	.171	.195	.230	.019
STD DEV OF	.483	.494	.506	.531	.547	.505	.414	.442	.479	.137
SKEW OF	-.233	-.223	-.182	-.173	-.239	-.681	-.143	-.527	-.510	-1.003
SE OF SKEW OF	.661	.661	.637	.637	.616	.616	.616	.616	.616	.616
SER CORR OF	.181	.196	.256	.396	.426	.218	.398	.296	.036	.112
C OF VAR OF	-1.524	-1.616	-1.874	-4.134	6.764	1.357	.723	.550	.459	.080

† Zero flow values excluded in computation of statistics.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1*	3*	7*	14*	30	60	90	120	183	ANNUAL
100.00	-	-	-	-	.052	.090	.369	.406	.566	19.859
20.00	-	-	-	-	.140	.286	.751	1.040	1.555	28.537
14.10	-	-	-	0	-	-	-	-	-	-
14.00	-	-	0	-	-	-	-	-	-	-
10.00	-	-	.04	.06	.233	.501	1.087	1.653	2.562	33.814
7.10	-	0	-	-	-	-	-	-	-	-
7.00	0	-	-	-	-	-	-	-	-	-
5.00	.08	.09	.13	.18	.425	.938	1.688	2.802	4.529	40.657
2.00	.39	.40	.50	.68	1.266	2.684	3.823	6.953	12.117	54.400
1.25	1.08	1.14	1.37	1.94	3.516	6.377	8.383	15.208	28.397	67.589
1.11	1.74	1.89	2.21	3.25	5.832	9.353	12.478	21.829	42.153	73.735
1.04	2.90	3.10	3.69	5.55	9.803	13.401	18.892	31.009	61.948	79.481
1.02	3.92	4.21	5.04	7.80	13.559	16.481	24.570	38.201	77.931	82.697
1.01	5.15	5.54	6.68	10.70	18.021	19.533	31.017	45.547	94.616	85.245

* Zero flow values included in computation of curve.

1-4010.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

STONY BROOK AT PRINCETON, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1954	1000.0 11	437.0 13	253.0 13	157.0 14	117.0 14	87.8 14	78.2 13	69.0 14	63.3 12	36.2 12
1955	2530.0 1	1110.0 1	806.0 1	481.0 1	250.0 3	128.0 8	97.6 9	92.5 9	83.7 8	65.9 5
1954	673.0 12	627.0 9	312.0 12	245.0 7	226.0 5	189.0 4	167.0 3	138.0 2	106.0 3	61.6 6
1957	1180.0 8	702.0 7	411.0 6	241.0 8	157.0 9	130.0 7	114.0 7	101.0 8	80.5 9	41.7 10
1958	1810.0 4	835.0 4	465.0 5	354.0 3	266.0 2	202.0 3	186.0 2	172.0 1	139.0 1	75.9 3
1959	848.0 14	395.0 14	235.0 14	165.0 13	135.0 13	92.2 13	76.8 14	69.1 13	65.1 11	42.5 9
1960	2240.0 2	885.0 3	406.0 7	247.0 6	152.0 11	145.0 6	126.0 6	125.0 5	95.8 6	66.4 4
1961	1110.0 7	744.0 5	583.0 2	368.0 2	278.0 1	243.0 1	193.0 1	165.0 2	128.0 2	81.8 1
1962	1610.0 5	714.0 6	473.0 4	308.0 4	247.0 4	202.0 2	146.0 4	137.0 4	99.6 5	55.4 7
1963	625.0 13	505.0 12	323.0 10	201.0 11	153.0 10	116.0 10	96.5 10	85.6 10	71.7 10	38.1 11
1964	1100.0 9	548.0 11	321.0 11	214.0 9	175.0 8	127.0 9	108.0 8	115.0 7	88.7 7	49.0 8
1965	1240.0 6	574.0 10	345.0 9	191.0 12	133.0 12	107.0 11	87.0 11	79.1 11	62.3 13	32.5 13
1966	1070.0 10	701.0 8	390.0 8	205.0 10	182.0 7	102.0 12	80.0 12	74.4 12	51.7 14	28.5 14
1967	2210.0 3	1020.0 2	529.0 3	304.0 5	210.0 6	151.0 5	133.0 5	116.0 6	102.0 4	86.7 2
MEAN	1422.571	698.286	418.000	262.928	191.857	144.429	120.636	109.921	88.671	54.014
VARIANCE	310724.562	43391.719	22462.613	8248.660	2866.591	2238.545	1553.188	1170.320	630.498	331.624
STD DEV	557.427	208.307	149.875	90.822	53.541	47.313	39.411	34.210	25.110	18.211
SKEWNESS	.966	.448	1.347	1.123	.308	.796	.709	.497	.563	.226
SE OF SKEW	.597	.597	.597	.597	.597	.597	.597	.597	.597	.597
SER CORR	-.532	-.371	-.342	-.270	-.203	.083	-.039	-.102	-.078	-.114
C OF VAR	.392	.298	.359	.345	.279	.328	.327	.311	.283	.337

LOGS

MEAN OF	3.125	2.826	2.598	2.398	2.267	2.139	2.061	2.022	1.932	1.709
VAR OF	.025	.017	.021	.020	.015	.019	.019	.018	.015	.023
STD DEV OF	.157	.132	.144	.140	.122	.137	.137	.135	.123	.152
SKEW OF	.651	-.169	.445	.486	.023	.348	.333	.101	.004	-.148
SE OF SKEW OF	.597	.597	.597	.597	.597	.597	.597	.597	.597	.597
SER CORR OF	-.586	-.380	-.364	-.280	-.227	.053	-.024	-.108	-.032	-.071
C OF VAR OF	.050	.047	.055	.058	.054	.064	.067	.067	.064	.089

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	684.352	317.960	204.316	132.566	96.611	71.838	59.659	52.293	44.321	21.817
1.05	791.737	400.406	240.167	154.273	116.688	84.833	70.631	63.697	53.708	28.348
1.11	866.319	451.241	263.961	168.723	129.095	93.284	77.756	70.897	59.503	32.484
1.25	977.967	519.892	298.333	189.640	145.952	105.292	87.866	80.861	67.367	38.189
2.00	1282.987	675.279	386.741	243.606	184.785	135.290	113.065	104.576	85.442	51.552
5.00	1779.139	866.539	519.096	324.709	234.299	178.391	149.150	136.245	108.395	68.747
10.00	2160.822	982.498	614.200	383.168	265.416	208.336	174.149	156.918	122.763	79.526
25.00	2706.870	1119.318	743.160	462.643	303.305	247.855	207.064	182.842	140.200	92.557
50.00	3163.653	1215.330	845.801	526.049	330.694	278.558	232.582	202.076	152.767	101.890
100.00	3665.704	1307.032	954.227	593.165	357.496	310.371	258.978	221.286	165.035	110.943

STATISTICS OF MONTHLY MEANS, 1954-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1954-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	21.45	31.84	1.617	1.485	3.294	.094	.8746	.6512	.6211	.7445	5.307	.563
NOV	36.24	30.66	.8063	.8460	5.566	.243	1.317	.5705	-.8003	.4330	7.994	.550
DEC	61.23	34.99	.2680	.5716	9.403	-.109	1.675	.3944	-1.664	.2355	10.16	.224
JAN	73.32	47.70	.5291	.6505	11.26	.333	1.764	.3287	-.4913	.1864	10.70	.551
FEB	107.1	46.32	.4485	.4324	16.45	.127	1.988	.2072	-.5942	.1043	12.06	.093
MAR	133.3	49.09	.2334	.3682	20.48	.314	2.096	.1670	-.1608	.0797	12.72	.201
APR	92.88	53.22	.0616	.5730	14.26	.207	1.882	.3052	-.5439	.1622	11.42	.124
MAY	39.58	29.70	.6477	.7505	6.079	.092	1.465	.3664	-.0422	.2500	8.892	.168
JUN	10.39	7.624	.9799	.7336	1.596	.284	.9039	.3315	.0608	.3667	5.485	.335
JUL	20.49	27.40	1.178	1.337	3.147	.327	.7620	.7947	.2070	1.043	4.624	.322
AUG	36.07	67.69	2.574	1.877	5.540	.195	.8345	.9209	-.0188	1.103	5.064	.432
SEP	18.98	34.30	3.287	1.807	2.916	-.082	.9174	.5372	.6929	.5855	5.567	.310

1-4015.00 MILLSTONE RIVER NEAR KINGSTON, N. J.

Location.--Lat 40°23'05", long 74°37'29", at Princeton sewage disposal plant.

Drainage area.--171 sq mi.

Remarks.--Regulation reduces flood peaks. Diversions and inflow significant at all flows.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1934																	5	86	93	35	29	24	22	29	16	12	1	4	2	5		1	1		78318.0		
1935												2		4	13	10	41	48	68	50	40	26	27	15	7	6	2	4	1	1					75078.0		
1936												1	2	19	22	25	54	44	24	24	28	32	17	15	15	10	12	9	9		2	2			103906.0		
1937												1	7	11	34	76	57	34	31	38	18	25	18	4	7	3			1						83001.0		
1938													1	10	32	71	73	63	41	26	12	11	6	5	1	3	3	1	1	1	1	2	2		120695.0		
1939														9	19	13	36	25	34	40	36	41	29	22	18	13	6	8	3	2	2			1		105434.2	
1940								2	7	8	13	2	3	20	39	34	44	42	22	29	25	24	14	12	5	5	5	5	3	2	1					86076.1	
1941							7	2	3	1	5		2	2	3	5	8	19	45	52	39	48	44	26	13	12	8	9	7	4			1			92354.0	
1942						1	3			1	1	2	9	5	8	19	26	36	87	56	34	14	11	14	14	7	10		4	3						64350.4	
1943							4	14	7	4	5	20	18	16	9	17	19	26	29	41	39	26	23	15	9	8	4	5	2	2	3	1				65189.0	
1944			4	7	5	5	3	2	3	5	5	6	8	8	16	21	19	35	36	30	21	31	36	13	10	10	6	7	1	3	3	3	2	1	1		90507.0
1945							1	11	3	3	13	11	13	21	22	20	32	29	31	26	24	26	19	8	16	13	7	6	3	5	2					87948.0	
1946													5	3	15	33	15	46	52	34	39	31	21	24	13	5	11	3	2	5	3	3		2		90610.0	
1947													5	14	45	46	31	39	32	48	32	22	16	15	11	5	3	1								62226.0	
1948										2	8	10	6	2	1	23	17	26	35	33	38	36	39	34	19	18	7	5	4	3						107050.6	
1949													5	21	29	32	27	33	28	13	25	39	21	38	21	12	7	6	2	2	2		1	1		84906.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5844	100.0	9	13.00	30	5746	98.3	18	120.0	655	3448	59.0	27	980	62	180	3.0
1	2.00	4	5844	100.0	10	17.00	58	5716	97.8	19	150.0	576	2793	47.8	28	1200	52	118	2.0
2	2.50	7	5840	99.9	11	22.00	88	5658	96.8	20	190.0	534	2217	37.9	29	1600	29	66	1.1
3	3.20	5	5833	99.8	12	28.00	84	5570	95.3	21	240.0	465	1683	28.8	30	2000	17	37	.6
4	4.10	6	5828	99.7	13	35.00	153	5486	93.9	22	300.0	374	1218	20.8	31	2600	9	20	.3
5	5.20	17	5822	99.6	14	44.00	276	5333	91.3	23	380.0	256	844	14.4	32	3200	5	11	.1
6	6.60	19	5805	99.3	15	56.00	307	5057	86.5	24	480.0	193	588	10.1	33	4100	3	6	.1
7	8.40	24	5786	99.0	16	71.00	570	4750	81.3	25	610.0	127	395	6.8	34	5200	3	3	.0
8	11.00	16	5762	98.6	17	91.00	732	4180	71.5	26	780.0	88	268	4.6					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MILLSTONE RIVER NEAR KINGSTON, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1934	67.0 14	73.0 14	76.6 14	77.9 13	83.0 13	84.1 11	105.0 10	117.0 10	174.0 13	234.0 8
1935	23.0 8	31.7 9	41.9 9	45.7 8	56.3 8	95.5 13	102.0 9	111.0 9	120.0 6	281.0 12
1936	26.0 9	30.7 8	34.9 7	38.4 7	45.2 6	50.3 5	62.8 4	81.7 7	100.0 4	220.0 7
1937	60.0 13	66.7 13	70.9 13	79.9 14	88.9 14	120.0 14	123.0 13	128.0 12	151.0 11	207.0 5
1938	72.0 15	79.0 15	84.7 15	89.4 15	101.0 15	178.0 15	234.0 15	265.0 15	324.0 15	468.0 15
1939	12.0 6	12.7 5	13.3 4	17.6 4	35.7 5	62.4 6	75.7 7	79.7 6	92.7 2	184.0 2
1940	44.0 12	46.0 11	46.4 10	56.3 11	60.6 10	79.6 9	119.0 12	137.0 13	175.0 14	300.0 13
1941	4.9 2	5.6 2	5.8 2	6.4 2	12.9 2	31.4 3	47.6 3	64.8 2	92.7 3	193.0 4
1942	11.0 5	28.0 7	51.7 12	57.7 12	71.6 12	93.5 12	113.0 11	124.0 11	134.0 9	208.0 6
1943	6.0 3	6.3 3	6.7 3	7.7 3	20.0 3	25.2 2	27.4 1	42.9 1	80.7 1	181.0 1
1944	2.0 1	2.3 1	3.0 1	3.8 1	5.4 1	17.5 1	42.0 2	66.8 3	124.0 7	251.0 11
1945	8.0 4	12.7 4	28.4 6	33.9 6	50.2 7	82.6 10	138.0 14	166.0 14	174.0 12	239.0 10
1946	35.0 10	37.7 13	41.4 8	45.8 9	59.8 9	65.2 7	74.1 6	73.0 5	115.0 5	191.0 3
1947	15.6 7	16.9 6	20.5 5	23.8 5	26.0 4	49.6 4	67.0 5	70.5 4	124.0 8	248.0 10
1948	41.0 11	46.7 12	49.1 11	54.9 10	60.8 11	71.3 8	77.8 8	103.0 8	143.0 10	302.0 14

MEAN	28.500	33.067	38.353	42.613	51.827	73.747	93.893	108.693	141.607	243.133
VARIANCE	555.186	625.135	672.803	751.435	789.541	1624.688	2538.294	2967.378	3474.881	3654.551
STD DEV	23.562	25.003	25.938	27.412	28.099	40.307	50.381	54.474	58.948	60.453
SKEWNESS	.710	.597	.290	.138	-.012	1.076	1.473	1.760	2.254	1.532
SE OF SKEW	.580	.580	.580	.580	.580	.580	.580	.580	.580	.580
SER CORR	.188	.149	.024	-.006	.009	.114	-.058	-.143	-.203	-.378
C OF VAR	.827	.756	.676	.643	.542	.547	.537	.501	.416	.249

LOGS

MEAN OF	1.268	1.352	1.431	1.488	1.619	1.802	1.917	1.993	2.124	2.375
VAR OF	.216	.205	.196	.182	.121	.069	.053	.038	.022	.010
STD DEV OF	.464	.453	.443	.427	.348	.263	.231	.195	.150	.098
SKEW OF	-.538	-.807	-1.009	-1.061	-1.407	-.645	-.236	.362	1.036	.955
SE OF SKEW OF	.580	.580	.580	.580	.580	.580	.580	.580	.580	.580
SER CORR OF	.341	.212	.046	.030	.013	.106	-.042	-.159	-.286	-.406
C OF VAR OF	.366	.335	.309	.287	.215	.146	.120	.098	.071	.041

1-4015.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MILLSTONE RIVER NEAR KINGSTON, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1934	2640.0 9	1910.0 7	1110.0 11	694.0 11	538.0 11	420.0 12	368.0 10	342.0 12	292.0 12	215.0 12
1935	1730.0 14	1440.0 13	1000.0 12	685.0 12	529.0 12	403.0 13	331.0 14	303.0 14	264.0 14	206.0 13
1936	1040.0 6	2170.0 6	1280.0 7	1150.0 2	886.0 2	631.0 4	560.0 3	501.0 3	456.0 2	284.0 4
1937	1870.0 13	1160.0 14	870.0 14	670.0 13	557.0 10	490.0 8	417.0 8	373.0 10	322.0 10	227.0 11
1938	6830.0 1	4770.0 1	2920.0 1	1580.0 1	995.0 1	632.0 3	628.0 2	535.0 1	414.0 3	331.0 1
1939	1670.0 5	2230.0 5	1620.0 4	1110.0 4	824.0 4	671.0 1	632.0 1	533.0 2	457.0 1	289.0 3
1940	2830.0 7	1690.0 11	1120.0 9	966.0 5	647.0 7	584.0 6	524.0 5	472.0 5	347.0 6	235.0 9
1941	2740.0 8	1550.0 12	1000.0 13	700.0 10	508.0 13	432.0 10	407.0 9	349.0 8	345.0 8	253.0 5
1942	1470.0 15	1010.0 15	733.0 15	622.0 15	505.0 14	384.0 14	328.0 15	284.0 16	233.0 16	176.0 15
1943	2000.0 11	1840.0 8	1110.0 10	611.0 14	406.0 15	370.0 15	343.0 13	326.0 13	271.0 13	179.0 14
1944	2270.0 2	3470.0 2	1700.0 2	897.0 7	579.0 9	549.0 7	453.0 7	443.0 7	347.0 7	247.0 7
1945	2340.0 10	1660.0 9	1330.0 6	915.0 6	673.0 6	423.0 11	357.0 11	333.0 9	323.0 9	241.0 8
1946	1630.0 4	2870.0 4	1470.0 5	823.0 9	602.0 8	470.0 9	357.0 12	344.0 11	307.0 11	248.0 6
1947	1030.0 16	805.0 16	680.0 16	450.0 16	387.0 16	338.0 16	325.0 16	284.0 15	263.0 15	170.0 16
1948	1920.0 12	1640.0 10	1190.0 8	838.0 8	718.0 5	585.0 5	503.0 6	458.0 6	399.0 4	292.0 2
1949	2040.0 3	3210.0 3	1700.0 3	1130.0 3	828.0 3	654.0 2	556.0 4	490.0 4	395.0 5	233.0 10

MEAN	3006.250	2079.687	1306.312	866.312	636.062	502.250	443.062	404.062	339.687	239.125
VARIANCE	2425634.000	1080541.000	287039.250	76787.312	30124.191	12540.332	11916.457	7509.922	4744.625	2022.250
STD DEV	1557.445	1039.491	535.760	277.105	173.563	111.984	109.163	86.660	68.881	44.969
SKEWNESS	1.143	1.300	1.884	1.064	.602	.164	.557	.141	.327	.243
SE OF SKEW	.564	.564	.564	.564	.564	.564	.564	.564	.564	.564
SER CORR	-.146	-.222	.006	.074	.153	.255	.393	.265	.134	-.005
C OF VAR	.518	.500	.410	.320	.273	.223	.246	.214	.203	.188

LOGS

MEAN OF	3.427	3.272	3.088	2.918	2.789	2.691	2.635	2.597	2.523	2.371
VAR OF	.048	.042	.024	.018	.014	.010	.011	.009	.008	.007
STD DEV OF	.218	.204	.156	.133	.117	.098	.104	.094	.088	.083
SKEW OF	.055	.207	.628	.177	.097	-.042	.354	-.080	.002	-.171
SE OF SKEW OF	.564	.564	.564	.564	.564	.564	.564	.564	.564	.564
SER CORR OF	-.133	-.248	.003	.068	.148	.221	.374	.245	.145	-.004
C OF VAR OF	.064	.062	.051	.046	.042	.036	.040	.036	.035	.035

STATISTICS OF MONTHLY MEANS, 1934-1949

	MEAN	STD DEV	SKEW	C OF VAR	MEAN	SER CORR
					YR VOL	
JAN	113.1	62.60	.9289	.5536	3.931	.393
FEB	233.6	123.1	.7338	.5270	8.122	-.036
MAR	257.5	127.5	.2192	.4951	8.952	.060
APR	322.9	164.3	.6291	.5088	11.22	.241
MAY	329.1	171.4	.9408	.5208	11.44	-.068
JUN	415.3	155.0	1.068	.3732	14.44	-.095
JUL	305.7	154.3	.8140	.5047	10.63	.562
AUG	234.7	86.49	.9590	.3685	8.160	.230
SEP	176.7	119.4	1.300	.6760	6.142	.292
OCT	193.4	213.5	2.421	1.104	6.723	.443
NOV	112.0	75.11	.9630	.6705	3.894	.277
DEC	182.5	188.1	1.863	1.031	6.344	-.017

STATISTICS OF FIRST DECEMBER MEANS, 1934-1949

	MEAN	STD DEV	SKEW	C OF VAR	MEAN	SER CORR
					YR VOL	
JAN	1.988	.2542	-.2787	.1279	7.301	.402
FEB	2.309	.2410	-.1747	.1044	8.480	.067
MAR	2.353	.2416	-.3710	.1027	8.641	.167
APR	2.450	.2450	-.5958	.1000	8.999	.317
MAY	2.460	.2393	-.4226	.0973	9.034	-.028
JUN	2.592	.1552	.2448	.0599	9.519	-.165
JUL	2.432	.2282	-.2363	.0938	8.931	.612
AUG	2.345	.1512	.4200	.0645	8.612	.146
SEP	2.160	.2876	.0251	.1332	7.931	.215
OCT	2.122	.3615	.8550	.1704	7.791	.345
NOV	1.944	.3378	-.6265	.1738	7.138	.532
DEC	2.076	.4118	.2815	.1984	7.624	.005

1-4020.00 MILLSTONE RIVER AT BLACKWELLS MILLS, N. J.

Location.--Lat 40°28'30", long 74°34'34", 30 ft downstream from highway bridge on Blackwells Mills Road.

Drainage area.--258 sq mi.

Remarks.--Regulation reduces flood peaks. Diversions and inflow significant at all flows.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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									
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS									
1922													7	84	34	34	29	14	50	27	47	10	7	4	6	4	5	1	2						123772.0									
1923	1					1		3	4	3	5	14	38	75	27	24	45	24	30	16	9	14	6	7	6	5	7	1	1						108931.0									
1924												1	2	44	22	37	20	34	41	28	20	24	25	16	17	11	4	9	1		1			190539.0										
1925							2	1	4	2	9	16	28	79	41	43	27	24	33	7	15	11	5	7	1	4	1	2			1	2			100060.0									
1926												6	11	19	32	38	60	44	40	32	28	9	9	9	5	10	4	3	3	1	1		1		125331.0									
1927												1	7	30	25	54	35	61	46	26	15	19	13	10	10	7	2	1	2					139556.0										
1928													3	2	7	40	68	64	49	33	23	25	14	11	3	9	4	1	2			1		207742.0										
1929								3	2	1	23	26	10	12	18	67	41	46	29	22	15	18	4	10	7	5	2	2	1	1					117753.0									
1930							1	5	1	12	8	25	10	14	37	31	22	43	39	20	24	16	19	14	5	6									101268.0									
1931												14	16	35	30	53	21	34	35	30	23	12	15	10	9	7	3	6	1	1					92564.0									
1932											2	36	38	45	41	32	19	38	26	24	21	9	10	7	4	3	6	2	1			2			76542.0									
1933											4	9	12	7	8	14	13	34	44	38	47	23	21	26	19	15	14	4	3	5	2	1	2			169156.0								
1934																16	49	55	37	29	26	25	23	18	16	10	7	2	5	4	1	1	1		112462.0									
1935											2			13	16	31	27	54	55	32	42	31	23	15	6	7	2	3	4	2					113031.0									
1936													8	27	29	45	29	29	31	18	28	28	13	12	15	16	8	16	6	4	2	1	1			161737.0								
1937													9	19	36	33	54	38	26	34	25	23	14	16	15	6	8	5							132409.0									
1938													1	7	21	52	52	45	67	36	20	16	8	11	8	4	4	6				3		3	1	196828.0								
1939											2			4	22	15	20	29	18	35	41	38	36	18	22	15	14	12	6	9	4	2				163995.0								
1940											3	5	6	14	12	39	39	32	40	25	21	34	16	18	16	14	8	3	9	3	5	2	2			133243.0								
1941													1	4	7	3	2	1	3	6	10	20	30	40	47	24	53	31	23	18	10	10				135242.0								
1942													1	1	1				9	13	10	21	34	53	67	41	27	13	14	8	13	11	4	9	4	2	1	110494.0						
1943													4	6	4	12	6	22	24	21	20	18	28	52	29	26	21	15	18	6	8	4	5	6	2	1	115271.0							
1944													22	9	5	9	8	18	15	23	29	33	25	20	30	25	16	17	8	5	8	4	6	3	4	3	118271.0							
1945													10	15	23	35	32	22	35	30	27	22	22	13	18	13	16	8	8	8	5	3				147306.0								
1946														12	26	37	37	50	45	31	23	25	23	13	12	3	9	4	3	4	5	2				150490.0								
1947													6	12	21	66	38	12	27	37	38	30	19	15	14	14	7	5	8	5						95116.0								
1948													19	9		12	19	14	34	32	29	37	33	31	31	18	12	14	9	6	5	2				170711.0								
1949													4	31	21	49	42	17	20	15	25	26	25	27	21	16	9	4	3	5	1	1	1	1		134461.0								
1950													4	13	10	36	45	19	48	52	29	38	21	15	8	10	3	7	3							101561.0								
1951														3	1	2	30	11	32	37	26	31	19	20	40	42	18	14	11	9	3	6	3	2	2	128810.0								
1952														6		10	22	15	34	18	36	43	38	31	32	29	14	11	6	12	1	2	3	2	1	205620.0								
1953													2	2	1	11	16	9	20	43	28	17	11	14	25	36	32	26	13	17	6	9	11	9	2	2	155076.0							
1954													1	1	2	4	20	16	18	21	17	15	25	21	46	41	26	32	21	8	9	10	3	1	3	1	81961.1							
1955														7	12	9	4	3	5	1	27	23	37	22	36	30	25	41	18	14	16	7	8	7	4	1	1	126947.0						
1956														1	14	40	33	45	23	35	22	24	24	22	22	13	16	7	10	6	2	4				132146.0								
1957														22	33	17	19	16	27	13	27	16	22	18	25	30	24	16	16	9	5	5	1	2	1		84500.0							
1958														3	12	22	24	28	37	23	29	22	10	33	17	15	16	13	13	12	6	10	7	1	1	1	1	163000.0						
1959														3	5	3	8	19	12	21	28	18	55	56	22	33	24	17	14	9	5	5	2	3	2	1	103974.0							
1960															8	20	24	38	21	34	34	39	33	33	20	13	17	6	7	7	4	4	2	1	1		145570.0							
1961															9	4	32	21	42	58	25	42	24	31	21	12	10	5	10	10	4	4	2				171355.0							
1962															8	18	26	27	53	26	44	38	27	25	17	12	7	2	7	2	3	5	2	3	1		122077.0							
1963														5	12	7	22	26	23	14	23	38	18	37	39	14	18	17	15	10	7	10	2	3	2	7	1	89138.0						
1964														2	6	22	21	39	32	15	30	8	17	15	24	40	28	17	14	12	3	11	7	2			105301.0							
1965														5	15	20	26	60	37	22	13	19	27	27	34	22	19	6	6	2	1	2			1	1	75859.0							
1966															3	8	5	8	4	12	20	20	25	44	41	24	30	10	23	18	12	16	10	7	4	3	8	2	3	1	2	1	1	73309.4
1967																1	3	14	12	15	26	59	34	50	45	40	15	17	10	12	3	2	3	1	1	1	1		164036.0					

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16801	100.0	9	33.00	329	16282	96.9	19	270.0	1595	6258	37.2	27	2300	128	265	1.5
1	5.00	4	16801	100.0	10	42.00	593	15953	95.0	19	350.0	1136	4663	27.8	28	2500	58	137	.8
2	6.00	9	16797	100.0	11	53.00	773	15360	91.4	20	440.0	880	3527	21.0	29	3600	46	79	.4
3	9.00	7	16788	99.9	12	67.00	1023	14587	86.8	21	550.0	710	2647	15.8	30	4600	17	33	.1
4	10.00	25	16781	99.9	13	84.00	1619	13564	80.7	22	700.0	544	1937	11.5	31	5600	10	16	.0
5	13.00	58	16756	99.7	14	110.00	1772	11945	71.1	23	890.0	379	1393	8.3	32	7400	4	6	.0

1-4020.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MILLSTONE RIVER AT BLACKWELLS MILLS, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1922	62.0 38	65.3 38	72.1 38	77.4 36	87.5 35	92.5 28	98.4 24	105.0 21	162.0 21	347.0 20
1923	5.0 1	17.7 9	53.0 30	61.9 29	67.0 25	73.5 21	77.7 17	87.1 14	108.0 10	354.0 26
1924	78.0 43	81.0 43	91.4 43	94.1 43	100.0 41	125.0 39	131.0 31	144.0 31	177.0 27	454.0 38
1925	20.0 14	21.7 14	29.4 15	53.4 24	64.6 24	72.4 20	85.4 21	88.6 16	116.0 11	293.0 11
1926	44.0 31	52.0 31	60.9 34	65.9 31	79.7 31	103.0 34	132.0 32	142.0 29	222.0 34	348.0 21
1927	64.0 39	70.7 40	81.4 42	89.4 41	133.0 44	188.0 44	202.0 43	259.0 43	313.0 44	495.0 43
1928	114.0 43	119.0 45	127.0 45	135.0 45	152.0 45	175.0 43	192.0 42	209.0 42	260.0 40	420.0 36
1929	24.0 18	24.7 18	32.6 17	45.2 21	50.4 17	56.1 14	84.5 20	112.0 25	159.0 20	349.0 22
1930	13.0 9	18.7 10	21.6 11	24.0 10	31.7 11	42.2 9	47.3 5	57.6 4	72.9 4	179.0 2
1931	41.0 28	44.3 28	46.6 24	49.9 22	52.7 18	61.0 15	62.3 11	72.2 9	132.0 16	275.0 8
1932	31.0 21	32.0 20	34.0 18	37.0 15	43.8 14	47.2 11	60.4 10	67.4 7	94.7 8	337.0 18
1933	26.0 19	28.7 19	35.0 19	41.4 19	63.0 23	90.5 26	144.0 38	201.0 40	244.0 38	364.0 29
1934	73.0 42	75.0 42	79.9 40	82.1 39	95.9 40	97.3 31	126.0 30	142.0 30	229.0 35	349.0 23
1935	27.0 20	39.3 24	50.4 27	58.4 28	74.7 27	138.0 40	141.0 37	147.0 32	170.0 25	438.0 37
1936	42.0 29	46.7 30	50.7 28	54.6 25	61.7 22	64.8 16	76.7 16	101.0 19	122.0 13	351.0 24
1937	60.0 36	63.0 36	68.6 36	78.1 38	94.5 38	147.0 41	154.0 39	156.0 35	197.0 31	330.0 17
1938	103.0 44	108.0 44	113.0 44	116.0 44	129.0 43	236.0 45	333.0 45	409.0 45	521.0 45	644.0 45
1939	23.0 17	23.7 17	26.3 14	32.7 14	57.9 20	84.5 24	102.0 26	105.0 22	125.0 14	285.0 9
1940	54.0 34	54.0 33	57.3 31	66.5 32	72.5 26	99.8 33	159.0 40	176.0 38	242.0 37	457.0 40
1941	9.0 4	11.7 4	12.4 3	15.3 5	23.0 5	41.2 8	64.4 12	81.3 12	130.0 15	291.0 10
1942	65.0 40	69.0 39	80.6 41	90.8 42	109.0 42	120.0 38	140.0 35	169.0 37	249.0 39	362.0 28
1943	11.0 6	11.7 5	12.9 4	14.8 4	23.1 6	34.6 5	39.3 4	79.6 11	144.0 17	304.0 14
1944	13.0 7	13.0 6	13.7 5	14.2 3	17.4 3	32.4 3	65.7 14	98.0 18	181.0 28	399.0 33
1945	39.0 27	42.7 27	50.7 29	67.1 33	92.4 36	150.0 42	257.0 44	272.0 44	284.0 42	408.0 34
1946	48.0 32	54.0 34	60.0 33	65.3 30	75.5 29	80.1 23	91.7 22	95.7 17	166.0 24	299.0 12
1947	34.0 23	36.0 22	36.9 21	38.6 16	41.6 13	67.5 19	82.9 19	87.6 15	186.0 29	394.0 31
1948	62.0 37	65.3 37	68.3 35	72.8 35	76.6 30	86.9 25	92.5 23	125.0 23	175.0 26	490.0 42
1949	38.0 26	40.7 25	43.7 23	44.6 20	56.2 19	76.9 22	98.6 18	86.5 13	88.6 6	253.0 4
1950	36.0 24	37.7 23	41.1 22	57.0 26	84.2 34	116.0 37	138.0 34	163.0 36	195.0 30	356.0 27
1951	21.0 15	22.3 15	31.4 16	39.2 17	46.0 16	93.9 29	141.0 36	136.0 27	165.0 22	455.0 39
1952	70.0 41	72.3 41	74.9 39	77.9 37	80.2 33	97.5 32	189.0 41	203.0 41	241.0 36	509.0 44
1953	7.1 3	8.7 2	15.3 6	20.7 8	31.6 10	34.8 6	48.4 6	58.1 5	85.9 5	265.0 7
1954	18.0 12	19.7 13	20.7 10	21.3 9	24.1 8	37.3 7	52.9 8	103.0 20	149.0 19	304.0 13
1955	10.0 5	10.7 3	12.0 2	13.3 2	15.1 2	49.3 12	64.4 13	108.0 23	271.0 41	398.0 32
1956	38.0 25	42.0 26	47.1 25	58.3 27	59.7 21	66.9 18	69.4 15	72.5 10	98.6 9	262.0 6
1957	17.0 10	17.3 8	17.6 8	19.0 7	19.8 4	23.4 2	27.1 2	30.7 1	42.7 1	365.0 30
1958	44.0 30	46.0 29	47.1 26	53.1 23	80.1 32	94.3 30	109.0 28	142.0 28	200.0 32	352.0 25
1959	18.0 11	18.7 11	20.7 9	26.7 11	45.8 15	66.1 17	98.5 25	155.0 34	147.0 18	315.0 15
1960	48.0 33	53.7 32	70.0 37	88.4 40	95.8 39	113.0 36	134.0 33	201.0 39	304.0 43	462.0 41
1961	55.0 35	56.3 35	59.1 32	67.9 34	93.2 37	108.0 35	121.0 29	149.0 33	216.0 33	411.0 35
1962	33.0 22	33.7 21	35.0 20	40.6 18	75.1 28	91.4 27	103.0 27	109.0 24	120.0 12	323.0 16
1963	13.0 8	13.7 7	15.9 7	16.5 6	23.1 7	33.5 4	34.3 3	42.5 2	51.8 2	215.0 3
1964	19.0 13	19.7 12	23.4 12	29.4 13	34.5 12	46.3 10	60.0 9	60.9 6	89.1 7	258.0 5
1965	21.0 16	23.3 16	24.4 13	26.8 12	31.4 9	49.4 13	52.7 7	53.8 3	55.3 3	175.0 1
1966	6.0 2	6.1 1	6.3 1	7.1 1	9.7 1	17.9 1	25.3 1	68.7 8	166.0 23	347.0 19
MEAN	37.713	40.700	46.053	52.215	63.907	84.942	106.418	127.373	174.835	356.467
VARIANCE	643.433	679.986	766.043	849.959	1116.311	2093.062	3712.856	4877.520	7433.895	8185.863
STD DEV	25.366	26.077	27.677	29.154	33.411	45.750	60.933	69.839	86.220	90.476
SKEWNESS	1.014	.992	.845	.596	.459	1.121	1.530	1.781	1.474	.566
SE OF SKEW	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR	-.099	-.046	.069	.116	.226	.259	.175	.114	.052	-.006
C OF VAR	.673	.641	.601	.558	.523	.539	.573	.548	.493	.254

LOGS

MEAN OF	1.468	1.515	1.576	1.637	1.733	1.867	1.962	2.049	2.192	2.538
VAR OF	.110	.093	.087	.084	.075	.059	.060	.050	.048	.013
STD DEV OF	.331	.305	.295	.289	.274	.244	.244	.223	.219	.113
SKEW OF	-.464	-.352	-.505	-.687	-.769	-.345	-.177	-.023	-.451	-.422
SE OF SKEW OF	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR OF	-.146	-.037	.096	.146	.231	.252	.257	.216	.132	.057
C OF VAR OF	.225	.201	.187	.177	.158	.130	.124	.109	.100	.045

1-4020.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MILLSTONE RIVER AT BLACKWELLS MILLS, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1922	1140.0 37	2270.0 38	1700.0 34	1230.0 28	1110.0 13	895.0 16	750.0 16	638.0 19	523.0 23	339.0 26
1923	3490.0 33	2540.0 31	2150.0 18	1610.0 10	1080.0 16	813.0 22	717.0 18	652.0 17	499.0 26	298.0 33
1924	5400.0 17	3330.0 18	2150.0 19	1410.0 22	1100.0 14	1030.0 8	951.0 6	883.0 2	804.0 1	521.0 4
1925	5100.0 19	4450.0 8	2950.0 4	1860.0 5	1340.0 6	879.0 18	690.0 22	567.0 29	424.0 36	274.0 38
1926	5920.0 13	2930.0 25	1870.0 28	1560.0 13	1070.0 17	714.0 26	593.0 29	541.0 32	464.0 30	343.0 25
1927	3630.0 32	2170.0 39	1310.0 41	998.0 37	729.0 39	613.0 38	562.0 34	562.0 30	466.0 29	382.0 46
1928	6330.0 9	4330.0 10	2550.0 9	1490.0 17	1010.0 25	948.0 12	788.0 13	723.0 13	682.0 7	568.0 1
1929	3660.0 31	2550.0 30	1880.0 27	1510.0 16	955.0 27	817.0 21	708.0 20	611.0 25	510.0 25	323.0 28
1930	2320.0 45	1830.0 44	1190.0 44	942.0 41	851.0 32	668.0 32	602.0 27	531.0 33	440.0 33	277.0 37
1931	2590.0 42	1940.0 43	1140.0 45	807.0 43	579.0 45	513.0 44	416.0 45	405.0 44	376.0 42	254.0 40
1932	4100.0 27	3250.0 20	1930.0 24	1130.0 35	822.0 34	553.0 42	490.0 41	465.0 41	351.0 44	209.0 44
1933	5150.0 18	3000.0 24	1710.0 32	1480.0 18	1050.0 21	830.0 20	678.0 23	630.0 22	617.0 12	463.0 7
1934	4300.0 24	3240.0 21	1900.0 26	1150.0 32	892.0 29	683.0 28	579.0 31	541.0 31	450.0 31	308.0 31
1935	2580.0 43	2350.0 37	1700.0 33	1150.0 33	872.0 31	633.0 35	519.0 39	485.0 37	413.0 38	310.0 30
1936	4780.0 20	3380.0 16	2150.0 20	1920.0 4	1500.0 3	1060.0 6	922.0 8	824.0 8	740.0 5	442.0 11
1937	3050.0 40	2010.0 41	1510.0 38	1210.0 29	1030.0 23	903.0 15	748.0 17	665.0 16	560.0 16	363.0 21
1938	13500.0 1	8830.0 1	4720.0 1	2540.0 1	1560.0 2	978.0 10	1020.0 1	859.0 5	654.0 10	539.0 3
1939	5430.0 16	3370.0 17	2520.0 10	1720.0 6	1290.0 9	1080.0 3	1020.0 2	864.0 4	732.0 4	449.0 8
1940	4290.0 26	2470.0 33	1860.0 29	1610.0 11	1070.0 18	979.0 9	859.0 10	769.0 10	564.0 14	364.0 20
1941	4300.0 25	2610.0 28	1540.0 37	960.0 39	794.0 37	670.0 30	635.0 25	614.0 24	535.0 21	372.0 18
1942	6030.0 11	3480.0 15	2140.0 21	1380.0 23	878.0 30	669.0 31	566.0 32	488.0 36	401.0 40	303.0 32
1943	3790.0 29	3280.0 19	2020.0 23	1120.0 36	695.0 40	633.0 36	590.0 30	570.0 28	486.0 27	316.0 29
1944	5780.0 14	4070.0 13	2310.0 17	1270.0 27	1000.0 26	916.0 14	751.0 15	705.0 14	547.0 19	382.0 17
1945	3120.0 38	2410.0 35	2120.0 22	1470.0 19	1100.0 15	682.0 29	593.0 28	632.0 20	539.0 20	404.0 14
1946	8050.0 3	5270.0 3	2680.0 6	1450.0 20	1050.0 22	833.0 19	620.0 26	593.0 26	528.0 22	412.0 13
1947	1790.0 46	1410.0 46	1230.0 43	775.0 45	651.0 44	561.0 41	537.0 37	475.0 39	426.0 35	261.0 39
1948	3160.0 36	2470.0 34	1920.0 25	1350.0 24	1170.0 10	945.0 13	820.0 11	760.0 11	659.0 9	467.0 6
1949	11800.0 2	6950.0 2	3570.0 2	2260.0 2	1590.0 1	1190.0 2	972.0 5	831.0 7	644.0 11	368.0 19
1950	3100.0 39	2350.0 36	1460.0 39	977.0 38	695.0 41	665.0 33	526.0 38	465.0 40	388.0 41	278.0 36
1951	4370.0 23	2530.0 32	1610.0 36	1170.0 30	822.0 35	786.0 23	707.0 21	630.0 23	559.0 17	353.0 23
1952	6120.0 10	4520.0 7	2560.0 7	1540.0 15	1060.0 19	972.0 11	876.0 9	793.0 9	791.0 2	562.0 2
1953	4460.0 21	3200.0 22	2550.0 8	1710.0 7	1320.0 7	1040.0 7	930.0 7	867.0 3	748.0 4	425.0 12
1954	2330.0 44	1700.0 45	1080.0 46	717.0 46	501.0 46	411.0 46	386.0 46	345.0 46	331.0 45	225.0 43
1955	6500.0 7	4740.0 5	3140.0 3	2080.0 3	1120.0 12	605.0 39	491.0 40	476.0 38	444.0 32	348.0 24
1956	6500.0 8	4730.0 6	2470.0 13	1290.0 25	1050.0 20	892.0 17	802.0 12	678.0 15	581.0 13	361.0 22
1957	4010.0 28	3050.0 23	1860.0 30	1130.0 34	773.0 38	624.0 37	565.0 33	514.0 34	435.0 34	245.0 41
1958	5920.0 12	4320.0 11	2500.0 11	1550.0 14	1360.0 4	1070.0 4	1000.0 3	937.0 1	777.0 3	447.0 10
1959	2570.0 41	2170.0 40	1300.0 42	805.0 44	652.0 43	491.0 45	429.0 44	393.0 45	404.0 39	285.0 35
1960	6720.0 6	4440.0 9	2380.0 14	1440.0 21	829.0 33	724.0 25	657.0 24	639.0 18	517.0 24	398.0 15
1961	4370.0 22	2880.0 26	2370.0 15	1630.0 8	1310.0 8	1220.0 1	975.0 4	848.0 6	671.0 8	469.0 5
1962	5530.0 15	3740.0 14	2490.0 12	1590.0 12	1350.0 5	1060.0 5	780.0 14	742.0 12	558.0 18	334.0 27
1963	3670.0 30	2650.0 27	1810.0 31	1150.0 31	901.0 28	686.0 27	560.0 35	497.0 35	423.0 37	244.0 42
1964	3460.0 34	2000.0 42	1420.0 40	949.0 40	818.0 36	635.0 34	555.0 36	587.0 27	478.0 28	288.0 34
1965	3180.0 35	2550.0 29	1640.0 35	939.0 42	681.0 42	547.0 43	461.0 43	425.0 43	352.0 43	208.0 45
1966	7390.0 4	4220.0 12	2370.0 16	1290.0 26	1020.0 24	584.0 40	467.0 42	440.0 42	318.0 46	201.0 46
1967	6800.0 5	5080.0 4	2750.0 5	1610.0 9	1130.0 11	784.0 24	710.0 19	631.0 21	561.0 15	449.0 9
MEAN	4869.129	3328.913	2090.869	1368.022	1005.000	793.130	686.369	625.869	529.782	357.196
VARIANCE	5065089.000	1944640.000	461801.187	150132.187	66864.562	39526.332	31417.641	22722.441	16828.629	8964.441
STD DEV	2250.575	1394.503	679.559	387.469	258.582	198.812	177.250	150.740	129.725	94.681
SKENNESS	1.871	1.774	1.386	.724	.330	.252	.373	.278	.494	.418
SE OF SKEW	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR	-.206	-.196	-.096	-.085	.009	.118	.168	.077	.020	.013
C OF VAR	.462	.419	.325	.283	.257	.251	.258	.241	.245	.265

LOGS

MEAN OF	3.650	3.491	3.300	3.119	2.988	2.886	2.822	2.784	2.712	2.538
VAR OF	.032	.026	.018	.015	.013	.012	.013	.011	.011	.014
STD DEV OF	.179	.162	.133	.123	.115	.111	.113	.106	.106	.117
SKEW OF	.333	.467	.167	-.088	-.292	-.197	-.048	-.162	.054	-.124
SE OF SKEW OF	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR OF	-.200	-.198	-.100	-.097	-.020	.108	.163	.072	.037	.048
C OF VAR OF	.049	.046	.040	.039	.038	.039	.040	.038	.039	.046

1-4030.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

RARITAN RIVER AT BOUND BROOK, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1904	350.0 26	177.0 26	401.0 26	465.0 26	612.0 26	636.0 26	676.0 24	788.0 25	1080.0 26	1430.0 22
1905	240.0 22	240.0 22	266.0 23	278.0 23	308.0 23	371.0 20	413.0 18	479.0 19	702.0 17	1080.0 11
1906	312.0 25	325.0 25	339.0 25	350.0 24	423.0 25	555.0 24	678.0 25	727.0 24	785.0 20	1280.0 17
1907	172.0 18	194.0 19	225.0 20	269.0 22	304.0 22	438.0 23	487.0 21	573.0 21	960.0 24	1720.0 25
1908	240.0 23	240.0 23	250.0 22	265.0 21	298.0 21	420.0 21	465.0 20	468.0 18	618.0 16	1220.0 16
1909	296.0 24	311.0 24	334.0 24	379.0 25	418.0 24	589.0 25	831.0 26	1000.0 26	1060.0 25	1400.0 21
1910	148.0 15	172.0 17	182.0 17	194.0 15	232.0 17	239.0 12	274.0 12	285.0 8	486.0 13	922.0 6
1911	138.0 13	142.0 13	148.0 12	153.0 12	163.0 9	242.0 13	327.0 14	396.0 16	744.0 19	1330.0 19
1912	179.0 19	193.0 19	187.0 18	197.0 17	210.0 14	234.0 11	273.0 11	355.0 13	505.0 14	1540.0 23
1913	103.0 11	105.0 11	110.0 11	129.0 11	143.0 8	186.0 8	193.0 6	204.0 6	211.0 5	775.0 4
1914	144.0 14	151.0 14	164.0 13	191.0 14	219.0 15	260.0 14	296.0 13	331.0 11	445.0 11	1120.0 13
1915	210.0 20	219.0 20	220.0 19	230.0 18	269.0 19	426.0 22	632.0 23	684.0 23	710.0 18	1630.0 24
1916	228.0 21	229.0 21	236.0 21	240.0 19	252.0 18	313.0 17	626.0 22	640.0 22	851.0 22	1730.0 26
1917	76.0 6	83.3 7	93.4 8	101.0 6	104.0 6	110.0 5	152.0 5	183.0 5	249.0 6	849.0 5
1918	79.0 8	87.3 9	102.0 9	104.0 8	119.0 7	158.0 7	196.0 7	343.0 12	426.0 10	942.0 8
1919	43.0 3	48.3 3	52.6 4	53.7 2	67.6 2	156.0 6	197.0 8	326.0 10	917.0 23	1330.0 20
1920	150.0 16	153.0 15	165.0 14	196.0 16	222.0 16	324.0 19	347.0 16	360.0 14	469.0 12	970.0 9
1921	40.0 2	43.3 2	45.7 1	61.9 3	62.8 1	68.7 1	77.0 1	87.4 1	133.0 1	1130.0 15
1922	101.0 10	105.0 10	110.0 10	118.0 10	184.0 12	261.0 15	338.0 15	392.0 15	588.0 15	1120.0 14
1923	77.0 7	82.3 6	88.1 7	113.0 9	182.0 11	288.0 16	371.0 17	409.0 17	416.0 8	1000.0 10
1924	123.0 12	137.0 12	178.0 15	247.0 20	284.0 20	319.0 18	439.0 19	540.0 20	806.0 21	1320.0 18
1925	153.0 17	163.0 16	179.0 16	184.0 13	200.0 13	222.0 9	252.0 10	301.0 9	426.0 9	1110.0 12
1926	82.0 9	84.0 8	87.6 6	102.0 7	170.0 10	226.0 10	250.0 9	262.0 7	302.0 7	927.0 7
1927	47.0 5	49.3 4	51.4 3	70.7 5	78.0 4	104.0 3	113.0 2	142.0 4	178.0 3	682.0 2
1928	37.0 1	39.3 1	46.3 2	49.4 1	69.6 3	93.0 2	123.0 4	126.0 2	195.0 4	702.0 3
1929	46.0 4	50.7 5	57.1 5	62.4 4	78.8 5	110.0 4	120.0 3	131.0 3	137.0 2	457.0 1

MEAN	146.692	154.377	166.084	184.734	218.184	282.642	351.769	405.092	553.615	1142.923
VARIANCE	7929.148	8562.074	9502.996	11514.219	16471.141	23848.055	41047.027	50880.520	83675.000	105546.687
STD DEV	89.046	92.531	97.483	107.304	128.340	154.428	202.601	225.567	289.266	324.879
SKEWNESS	.711	.759	.724	.836	1.246	.765	.755	.845	.212	.020
SE OF SKEW	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR	.599	.614	.635	.599	.557	.511	.368	.290	.287	.274
C OF VAR	.607	.599	.587	.581	.588	.546	.576	.557	.523	.284

LOGS

MEAN OF	2.080	2.106	2.140	2.190	2.266	2.384	2.471	2.537	2.671	3.039
VAR OF	.085	.082	.079	.074	.070	.066	.074	.071	.075	.018
STD DEV OF	.292	.286	.281	.273	.265	.257	.271	.266	.275	.136
SKEW OF	-.295	-.292	-.309	-.277	-.254	-.367	-.328	-.478	-.642	-.823
SE OF SKEW OF	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR OF	.580	.600	.591	.587	.523	.462	.397	.368	.369	.372
C OF VAR OF	.140	.136	.131	.124	.117	.108	.110	.105	.103	.045

1-4030.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

RAKITAN RIVER AT BRUND BROOK, N. J.

YEAR	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	ANNUAL	
1904	24900.0	2	16000.7	3	9170.0	3	5210.0	4	3140.0	13	2380.0	13	2130.0	13	2010.0	12	1940.0	9	1520.0	3												
1905	16400.0	4	9590.0	12	6030.0	15	4430.0	12	3170.0	12	2130.0	17	2150.0	11	1990.0	13	1760.0	11	1260.0	12												
1906	17700.0	5	9410.0	14	5230.0	21	1470.0	20	2780.0	18	2530.0	12	2010.0	16	1990.0	14	1650.0	16	1160.0	15												
1907	14900.0	13	11000.0	7	4810.0	5	5470.0	3	3560.0	10	2100.0	14	2130.0	12	1940.0	15	1700.0	13	1260.0	13												
1908	13700.0	16	7850.0	22	5240.0	20	4370.0	14	3660.0	8	3060.0	8	2850.0	5	2870.0	2	2470.0	3	1730.0	2												
1909	11600.0	21	4220.0	19	6560.0	13	5020.0	6	3390.0	9	2740.0	16	2020.0	15	1810.0	18	1690.0	14	1320.0	7												
1910	19300.0	5	12600.0	5	6710.0	11	4100.0	15	3670.0	15	2540.0	11	1950.0	17	1810.0	16	1650.0	15	1290.0	9												
1911	14600.0	27	4880.0	27	4270.0	25	2730.0	26	2470.0	23	2060.0	19	1930.0	18	1760.0	19	1480.0	20	931.0	18												
1912	10700.0	22	4270.0	18	5810.0	16	4580.0	9	3660.0	7	3100.0	6	2840.0	6	2580.0	5	2160.0	5	1480.0	4												
1913	27400.0	1	17400.0	1	9550.0	2	6690.0	2	4800.0	1	3670.0	2	2930.0	4	2560.0	7	1900.0	7	1120.0	16												
1914	9610.0	24	6880.0	23	4300.0	24	2920.0	27	2140.0	24	2020.0	22	1640.0	22	1440.0	22	1220.0	24	783.0	23												
1915	15200.0	11	8520.0	16	6210.0	14	4070.0	16	3000.0	16	2740.0	10	2500.0	9	2210.0	8	1980.0	8	1290.0	10												
1916	16700.0	7	12000.0	6	6820.0	9	4400.0	13	3120.0	14	3090.0	7	2830.0	7	2660.0	4	2450.0	1	1910.0	1												
1917	13400.0	17	8610.0	15	7040.0	8	4900.0	8	4070.0	3	3260.0	3	2950.0	3	2790.0	3	2510.0	2	1430.0	5												
1918	5890.0	26	4940.0	26	3240.0	27	2190.0	27	1650.0	27	1280.0	27	1210.0	27	1080.0	27	1020.0	25	673.0	25												
1919	21000.0	3	14100.0	4	10400.0	1	8990.0	1	3800.0	5	2050.0	20	1570.0	23	1550.0	21	1400.0	21	1120.0	17												
1920	22600.0	4	17300.0	2	9160.0	4	4920.0	7	3290.0	11	2820.0	9	2520.0	8	2130.0	9	1930.0	10	1270.0	11												
1921	14600.0	15	10600.0	9	6670.0	12	4070.0	17	2740.0	19	2090.0	18	1890.0	19	1760.0	20	1520.0	18	874.0	20												
1922	16500.0	8	10900.0	8	6740.0	10	4440.0	11	3730.0	6	3710.0	4	2980.0	2	2850.0	1	2400.0	4	1360.0	6												
1923	8940.0	25	6240.0	25	3730.0	26	2490.0	26	2100.0	25	1570.0	24	1400.0	24	1270.0	24	1270.0	22	863.0	22												
1924	15000.0	12	9860.0	10	5680.0	17	3610.0	19	2500.0	22	2280.0	15	2110.0	14	2120.0	10	1740.0	12	1250.0	14												
1925	12100.0	19	8180.0	21	7280.0	6	5180.0	5	4190.0	2	3850.0	1	3140.0	1	2570.0	6	2030.0	6	1300.0	8												
1926	14600.0	14	9770.0	11	7120.0	7	4490.0	10	3880.0	4	3110.0	5	2300.0	10	2080.0	11	1560.0	17	912.0	19												
1927	10300.0	23	8470.0	17	5440.0	18	3810.0	18	2810.0	17	2040.0	21	1680.0	21	1420.0	23	1250.0	23	735.0	24												
1928	12100.0	20	6560.0	24	4940.0	23	2820.0	23	2510.0	21	1870.0	23	1690.0	20	1810.0	17	1500.0	19	873.0	21												
1929	12700.0	18	8200.0	20	4960.0	22	2770.0	24	1960.0	26	1540.0	25	1280.0	25	1140.0	25	904.0	26	524.0	26												
1930	15500.0	10	9540.0	13	5420.0	19	2960.0	21	2660.0	20	1530.0	26	1270.0	26	1110.0	26	825.0	27	515.0	27												

MEAN	14912.590	9849.629	6374.812	4189.629	3088.889	2455.926	2144.444	1973.704	1711.074	1139.000
VARIANCE	26519888.000	10958788.000	3326835.000	1423100.000	538602.125	445717.000	339548.375	285593.000	228916.250	118829.062
STD DEV	5149.746	3310.406	1823.961	1192.937	733.895	667.620	582.708	534.409	478.452	344.716
SKEWNESS	.699	.924	.508	.421	.159	.259	.125	.031	.141	.053
SE OF SKEW	.448	.448	.448	.448	.448	.448	.448	.448	.448	.448
SER CORR	-.159	-.064	-.120	-.101	-.147	.067	.078	.009	.160	.308
C OF VAR	.345	.336	.286	.285	.238	.272	.272	.271	.280	.303

LOGS

MEAN OF	4.148	3.971	3.787	3.605	3.477	3.374	3.315	3.279	3.216	3.035
VAR OF	.023	.020	.016	.016	.012	.015	.015	.016	.017	.021
STD DEV OF	.153	.142	.126	.127	.108	.122	.123	.125	.130	.144
SKEW OF	-.271	.071	-.167	-.270	-.481	-.290	-.300	-.460	-.560	-.696
SE OF SKEW OF	.448	.448	.448	.448	.448	.448	.448	.448	.448	.448
SER CORR OF	-.184	-.117	-.169	-.093	-.161	.084	.128	.047	.220	.373
C OF VAR OF	.037	.036	.033	.035	.031	.036	.037	.038	.040	.048

STATISTICS OF MONTHLY MEANS, 1904-08; 1945-1966

STATISTICS OF LOGS OF MONTHLY MEANS, 1904-08; 1945-1966

	MEAN	STD DEV	SKEW	C OF VAR	PEP MEAN	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PEP MEAN	SER CORR
					YR VOL						YR VOL	
JAN	649.5	775.3	2.083	1.194	4.740	.352d	2.602	.4046	.8307	.1555	7.474	.594d
FEB	1033.	785.2	1.214	.7603	7.537	.251	2.875	.3834	-.4434	.1334	8.257	.465
MAR	1312.	725.0	.4335	.5527	9.574	.499	3.041	.2852	-.7564	.0938	8.732	.473
APR	1551.	845.5	.7010	.5452	11.32	.619	3.121	.2637	-.5195	.0845	8.964	.679
MAY	1738.	686.0	.1951	.3948	12.68	.077	3.203	.1902	-.5268	.0594	9.199	.049
JUN	2193.	677.7	.2037	.3090	16.00	.080	3.320	.1391	-.1734	.0419	9.535	.099
JUL	1653.	809.4	.2075	.4897	12.06	.444	3.159	.2422	-.4477	.0767	9.074	.349
AUG	1159.	712.1	1.021	.6147	8.455	.169	2.987	.2655	.0528	.0889	8.579	.221
SEP	630.2	529.5	1.859	.8402	4.599	.650	2.684	.3125	.3896	.1164	7.709	.702
OCT	533.9	417.1	1.552	.7812	3.896	.593	2.593	.3697	-.3186	.1426	7.447	.784
NOV	648.7	712.6	2.968	1.099	4.734	.179	2.625	.4180	-.0502	.1593	7.539	.495
DEC	602.7	577.2	1.348	.9576	4.399	.245	2.608	.3908	.2755	.1499	7.490	.537

d Serial correlation coefficient computed from non-continuous arrays of monthly mean discharges.

1-4035.00 GREEN BROOK AT PLAINFIELD, N. J.

Location.--Lat 40°36'53", long 74°25'55", 20 ft downstream from Sycamore Avenue Bridge.

Drainage area.--9.75 sq mi.

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 DISCHARGE

CLASS	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
YEAR	NUMBER OF DAYS IN CLASS																																		CFS, DAYS
1939											40	34	11	17	32	27	25	18	32	13	30	13	21	10	15	6	4	11	5		1				4669.9
1940				10	28	24	17	18		10	32	17	18	17	19	15	14	17	15	18	12	23	14	6	5	4	5	5	1		1	1			4123.5
1941					5	18	4	8	16	26	17	13	23	28	36	42	25	16	20	22	13	11	6	6	3	4	2	1						3499.3	
1942	5	5	8		5	25	12	7	9	15	18	28	19	29	25	31	21	17	18	12	12	9	9	6	4	7	2	4	2			1		4478.0	
1943					4	6		2	15	14	17	16	12	18	37	52	44	24	30	18	14	13	11	4	4	2	5	1		2				4534.9	
1944					4	2	9	14	24	32	25	19	17	28	27	27	22	20	21	19	17	9	9	5	4	1	5	3	1	2				4393.1	
1945						22	9	4	2	2	9	16	20	28	34	40	42	33	27	14	11	11	10	9	7	7	5		2	1				5019.0	
1946						2	6	5	3	5	20	18	15	33	47	43	25	23	26	21	19	16	14	6	5	3	2	2	1	1	1			4989.2	
1947						2	7	18	28	39	21	18	15	14	32	27	31	27	24	15	13	11	5	5	3	3	2	1	1					3440.7	
1948					7	20			12	7	10	13	34	34	36	23	25	29	26	23	18	14	13	8	5	4		2	3					6022.1	
1949				12	5	2	12	20	40	32	20	14	15	14	15	22	23	25	28	18	17	10	3	4	3	3	2	1		1	1			4160.2	
1950	35	20		5	8	15	16	10	16	21	13	21	13	22	35	21	25	22	11	15	6	4	4	3		2	1	1						7201.7	
1951		4	15	12	11		16	5	11	17	14	11	22	13	27	22	23	27	39	26	11	12	7	4	4	2	2	4	1	3				4641.1	
1952						1	3	4	3	5	12	5	27	21	16	18	30	35	30	41	24	18	28	9	11	8	4	5	2	2	2	1		1	6829.1
1953					1	3	31	23	11	9	16	15	11	21	18	20	20	38	15	16	9	15	7	7	6	5	3	2			1	1		5497.7	
1954		1	23		7	8	8	17	15	36	28	25	19	15	24	18	25	24	21	13	14	5	3	7	2	3		1	1					2438.3	
1955					6	3	6	13	16	32	26	26	19	25	18	21	37	28	30	22	9	5	8	3	4	2	1	1	1	1	1		1	4127.8	
1956							2	13	23	30	30	24	28	25	20	24	20	39	26	18	11	11	5	2	5	4	3	1						4491.8	
1957					1	37	36	18	19	25	10	9	15	24	16	17	25	20	31	24	10	9	4	7	3	2		1	2					3239.7	
1958			1	10	6	6	1	7	17	23	11	20	14	17	16	22	24	16	15	30	18	13	24	13	11	8	4	9	3	4	1	1		6329.9	
1959								10	17	14	18	19	21	26	33	47	29	22	20	26	23	13	2	8	7	3	2	1	1	3				3686.0	
1960			4	3		3	6	12	17	8	8	12	15	11	16	21	28	35	28	51	26	10	15	12	8	3	2	7	3	1			1	5218.5	
1961		1	2	2		4	3	8	20	19	11	11	25	21	37	32	27	14	29	17	27	20	8	9	1	8	4	3	1	1				5204.6	
1962		23	6	9	4	8	14	12	10	24	24	18	22	28	21	18	26	13	24	16	10	8	6	7	2	5	4		1	1			1	3978.9	
1963		51	8	7	2	7	9	6	8	9	9	18	28	25	27	39	24	11	14	19	12	14	4	4	3	1	4		1				3354.0		
1964		70	3	5	5	14	6	7	10	11	12	13	13	16	13	17	28	20	28	16	16	13	6	8	7	2	5		1			1		3994.5	
1965		46	12	12	23	6	15	11	13	28	22	15	11	9	23	30	31	14	18	5	5	5	4	4		3	1		1			1		2208.1	
1966		74	18	4	4	10	10	6	29	20	11	8	27	17	19	21	19	8	20	5	4	8	5	5	3	3	1	2	2	1	1			3273.2	
1967			2	2		1	3	7	15	17	22	22	34	18	20	30	30	34	37	19	14	14	7	3	4	6	2		1				1	4270.3	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	315	10592	100.0	9	1.60	482	8018	75.7	18	15.0	520	2111	19.9	27	140	37	76	.7
1	0.10	127	10277	97.0	10	2.00	509	7536	71.1	19	19.0	400	1591	15.0	28	180	20	39	.3
2	0.20	103	10150	95.8	11	2.60	555	7077	66.3	20	24.0	336	1191	11.7	29	230	11	19	.1
3	0.30	138	12047	94.9	12	3.30	644	6472	61.1	21	31.0	240	855	8.1	30	290	5	8	.0
4	0.40	275	9909	93.6	13	4.20	752	5828	55.0	22	40.0	177	615	5.8	31	370	3	3	.0
5	0.50	291	9634	91.0	14	5.40	796	5076	47.9	23	51.0	114	438	4.1	32				
6	0.70	281	9343	88.2	15	6.90	776	4280	40.4	24	65.0	110	324	3.1	33				
7	0.90	462	9062	85.6	16	8.90	603	3504	33.1	25	84.0	95	214	2.0	34				
8	1.20	582	8600	81.2	17	11.00	790	2901	27.4	26	110.0	43	119	1.1					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

GREEN BROOK AT PLAINFIELD, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	0.2 13	0.2 13	0.3 13	0.3 9	0.6 11	0.7 5	1.6 9	1.5 5	1.6 2	7.4 3
1940	0.7 27	0.9 27	1.0 27	1.1 25	2.0 24	3.5 26	4.5 26	4.5 22	6.5 23	13.9 22
1941	0.0 1	0.0 1	0.0 1	0.2 6	0.4 6	0.6 4	1.1 4	1.8 8	3.1 7	8.9 5
1942	0.4 22	0.5 23	0.7 25	1.8 27	2.4 26	2.5 21	4.0 24	5.9 26	12.8 28	14.5 23
1943	0.4 23	0.4 19	0.5 21	0.6 16	1.9 23	2.3 19	2.5 14	3.1 14	5.5 18	12.3 16
1944	0.3 18	0.3 16	0.4 18	0.4 10	0.8 14	1.3 12	2.7 17	3.1 15	3.6 8	11.4 12
1945	1.6 28	1.6 28	2.2 28	2.5 28	4.7 28	6.4 28	8.6 28	9.0 28	9.6 26	14.8 25
1946	0.4 24	0.4 20	0.5 19	0.7 17	1.3 20	1.8 15	2.6 15	2.6 12	4.0 11	9.5 8
1947	0.3 19	0.3 17	0.3 14	0.4 11	0.4 7	1.4 13	2.0 10	2.3 9	4.4 21	13.5 20
1948	0.6 26	0.7 26	0.7 22	0.9 23	1.3 21	1.9 16	2.3 12	2.9 13	5.2 16	17.0 27
1949	0.0 2	0.0 2	0.0 2	0.0 1	0.1 2	0.3 2	0.6 2	0.7 1	1.1 1	6.2 1
1950	0.0 3	0.0 3	0.1 8	0.4 12	0.7 13	0.8 6	1.4 8	1.6 6	3.6 9	11.4 13
1951	0.2 14	0.2 14	0.3 15	0.4 13	0.6 12	2.0 17	2.8 18	4.4 20	5.8 20	14.5 24
1952	0.3 15	0.4 18	0.4 16	0.4 14	0.4 8	1.0 9	3.2 20	5.0 24	6.5 22	17.7 28
1953	0.0 4	0.1 10	0.1 9	0.2 7	0.4 9	0.8 7	1.1 5	1.4 4	2.5 5	8.9 6
1954	0.3 16	0.3 15	0.4 17	0.7 18	1.2 18	1.6 14	2.2 11	3.7 18	4.0 12	9.7 9
1955	0.3 17	0.6 24	0.7 23	0.8 21	1.0 15	2.9 24	3.3 21	4.8 23	9.8 27	12.8 18
1956	0.4 20	0.5 21	0.5 20	0.7 19	1.2 16	2.7 22	3.8 23	4.5 21	5.0 15	10.0 10
1957	0.0 5	0.1 11	0.1 10	0.5 15	0.6 10	1.1 10	1.2 7	1.3 3	1.8 3	13.7 21
1958	0.0 25	0.6 25	0.8 26	0.9 22	2.1 25	2.9 25	3.7 22	4.2 19	6.7 24	13.5 19
1959	0.4 21	0.5 22	0.7 24	0.7 20	1.3 19	2.7 23	4.5 25	5.7 25	5.7 19	11.6 14
1960	0.0 6	0.0 4	0.2 11	1.3 26	2.9 27	4.0 27	5.3 27	7.2 27	8.9 25	15.0 26
1961	0.0 7	0.1 12	0.2 12	1.1 24	1.6 22	2.3 20	2.7 16	3.2 16	3.9 10	12.3 17
1962	0.0 8	0.0 5	0.0 3	0.3 8	1.2 17	2.2 18	2.8 19	3.2 17	4.2 13	11.7 15
1963	0.0 9	0.0 6	0.0 4	0.0 2	0.2 3	1.0 8	1.1 6	1.8 7	2.5 6	8.9 7
1964	0.0 10	0.0 7	0.0 5	0.0 3	0.0 1	0.1 1	0.7 3	1.0 2	2.0 4	7.3 2
1965	0.0 11	0.0 8	0.0 6	0.0 4	0.3 4	1.1 11	2.4 13	2.5 11	4.6 14	8.3 4
1966	0.0 12	0.0 9	0.0 7	0.0 5	0.3 5	0.4 3	0.5 1	2.3 10	5.3 17	10.3 11

1-4035.00 GREEN BROOK AT PLAINFIELD, N. J.

LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1 [†]	3 [†]	7 [†]	14 [†]	30 [†]	60	90	120	183	ANNUAL
MEAN	.456	.458	.529	.752	1.181	1.868	2.686	3.400	5.079	11.679
VARIANCE	.111	.123	.209	.294	1.024	1.795	2.952	3.845	7.444	8.688
STD DEV	.333	.350	.457	.543	1.012	1.340	1.718	1.961	2.728	2.947
SKEWNESS	3.024	2.043	2.580	1.865	1.843	1.490	1.536	1.024	.990	.092
SE OF SKEW	.564	.524	.501	.481	.448	.441	.441	.441	.441	.441
SER CORR	-.164	-.205	-.048	-.223	.048	.032	.052	.040	-.143	-.077
C OF VAR	.729	.765	.865	.721	.856	.717	.640	.577	.537	.252

LOGS

MEAN OF	-.405	-.448	-.402	-.214	-.076	.146	.342	.459	.642	1.053
VAR OF	.048	.106	.119	.080	.149	.144	.087	.071	.063	.013
STD DEV OF	.219	.325	.345	.282	.386	.379	.295	.266	.251	.115
SKEW OF	1.370	-.251	-.177	.204	-.337	-1.079	-.459	-.349	-.487	-.423
SE OF SKEW OF	.564	.524	.501	.481	.448	.441	.441	.441	.441	.441
SER CORR OF	-.228	-.233	-.042	-.260	.143	.133	.079	.076	-.092	-.062
C OF VAR OF	-.542	-.727	-.858	-1.322	-5.076	2.594	.863	.579	.391	.109

† Zero flow values excluded in computation of statistics.

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

GREEN BROOK AT PLAINFIELD, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	163.0 22	91.3 24	65.4 20	47.9 17	40.2 8	33.4 8	31.9 5	26.7 7	22.7 6	12.8 9
1940	264.0 10	130.0 11	76.6 14	53.9 10	37.0 14	33.2 9	30.7 7	26.6 8	19.3 11	11.3 18
1941	138.0 28	83.7 25	49.6 27	34.7 24	29.9 23	22.2 23	18.2 23	17.4 21	14.8 23	9.6 22
1942	301.2 8	147.0 9	108.0 3	82.2 1	46.8 6	28.3 14	21.0 19	17.3 22	16.9 18	12.3 13
1943	218.3 17	127.0 14	77.6 12	46.5 18	33.6 21	22.2 24	20.8 20	20.3 15	18.9 13	12.4 11
1944	206.0 19	108.0 19	60.0 23	48.8 15	38.3 10	33.2 10	26.5 11	24.1 10	18.5 14	12.0 14
1945	183.0 21	100.0 20	69.9 18	55.6 9	35.0 19	22.5 21	24.7 13	20.3 16	19.4 10	13.8 7
1946	277.0 9	128.0 12	70.6 17	46.5 19	36.6 16	28.4 13	21.5 18	19.2 19	18.1 16	13.7 8
1947	147.0 27	81.0 26	57.7 25	33.8 25	27.1 25	24.6 17	22.4 16	19.6 17	16.4 20	9.4 23
1948	214.0 18	95.3 23	74.6 15	49.8 13	39.8 9	34.1 6	30.2 8	29.6 4	24.0 4	16.5 3
1949	335.0 4	218.0 1	116.0 1	75.2 2	54.7 2	39.3 4	30.8 6	28.3 6	20.9 8	11.4 16
1950	132.0 29	62.7 28	41.5 28	26.4 28	17.1 29	16.0 27	13.3 28	12.5 27	10.4 27	6.0 29
1951	159.0 20	117.0 17	77.4 13	49.4 14	35.1 18	32.2 11	27.4 10	24.1 11	21.2 7	12.7 10
1952	478.0 1	208.0 2	106.0 4	74.7 3	44.2 7	33.4 7	32.5 4	28.5 5	27.8 2	18.7 1
1953	335.0 7	193.0 7	106.0 5	72.3 4	57.2 1	44.5 3	37.1 3	33.3 2	27.0 3	15.1 4
1954	154.0 26	55.6 29	33.7 29	27.3 29	18.2 28	13.6 29	13.7 27	11.8 28	10.2 28	6.7 27
1955	374.0 2	198.0 3	115.0 2	71.6 5	38.0 11	20.2 25	15.9 25	14.9 25	13.2 25	11.3 17
1956	161.0 25	127.0 15	69.0 19	41.5 22	36.1 17	30.7 12	25.5 12	21.3 14	18.0 17	12.3 12
1957	162.0 23	116.0 18	71.6 16	43.5 20	30.3 22	23.0 20	20.1 22	17.7 20	15.4 21	8.9 26
1958	247.0 14	128.0 13	84.3 10	61.4 6	49.3 3	44.9 2	40.3 1	38.2 1	31.0 1	17.3 2
1959	162.0 24	72.3 27	60.0 24	33.6 26	24.6 26	18.0 26	15.5 26	13.8 26	14.0 24	10.1 21
1960	312.0 6	130.0 10	64.9 22	40.3 23	28.2 24	24.6 18	23.9 14	22.9 13	20.0 9	14.3 5
1961	223.0 16	118.0 16	85.7 9	61.3 7	47.9 5	45.8 1	37.3 2	30.0 3	23.0 5	14.3 6
1962	373.0 3	173.0 4	88.3 8	57.0 8	48.4 4	38.5 5	24.1 9	24.8 9	18.5 15	10.9 19
1963	250.0 12	143.0 8	92.4 11	52.5 11	36.8 15	25.9 15	20.6 21	17.2 23	15.0 22	9.2 24
1964	245.0 15	96.3 22	65.0 21	41.6 21	33.7 20	25.1 16	23.3 15	23.5 12	19.2 12	10.4 20
1965	250.0 13	100.0 21	51.4 26	27.2 27	20.1 27	14.3 28	12.8 29	10.8 29	8.9 29	6.0 28
1966	256.0 11	154.0 6	91.6 6	48.3 16	37.9 12	22.2 22	17.9 24	16.6 24	13.5 26	9.0 25
1967	319.0 5	160.0 5	89.7 7	51.5 12	37.0 13	24.3 19	22.0 17	19.6 18	16.6 19	11.7 15
MEAN	242.690	124.697	76.155	50.045	36.521	28.228	24.341	21.755	18.397	11.745
VARIANCE	6923.418	1657.085	443.251	233.208	99.101	78.272	54.516	44.000	26.422	9.488
STD DEV	83.207	40.707	21.054	15.271	9.955	8.847	7.383	6.633	5.140	3.080
SKEWNESS	.860	.577	.177	.294	.005	.398	.379	.457	.431	.143
SE OF SKEW	.434	.434	.434	.434	.434	.434	.434	.434	.434	.434
SER CORR	-.240	-.271	-.342	-.297	-.262	-.103	-.028	-.090	-.007	-.010
C OF VAR	.343	.326	.276	.305	.273	.313	.303	.305	.279	.262

LOGS

MEAN OF	2.361	2.073	1.864	1.679	1.545	1.429	1.366	1.318	1.248	1.054
VAR OF	.021	.021	.016	.020	.017	.020	.018	.019	.016	.015
STD DEV OF	.145	.145	.128	.140	.130	.141	.136	.136	.126	.122
SKEW OF	.147	-.277	-.613	-.481	-.799	-.281	-.225	-.250	-.437	-.663
SE OF SKEW OF	.434	.434	.434	.434	.434	.434	.434	.434	.434	.434
SER CORR OF	-.277	-.314	-.383	-.323	-.279	-.109	-.032	-.091	-.017	-.024
C OF VAR OF	.061	.070	.069	.084	.084	.098	.099	.103	.101	.116

1-4035.00 GREEN BROOK AT PLAINFIELD, N. J.

STATISTICS OF MONTHLY MEANS, 1939-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1939-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	4.561	5.173	2.014	1.134	3.229	.167	.4196	.4796	-.0582	1.143	3.997	.322
NOV	9.608	7.097	.6582	.7387	6.802	.153	.8111	.4699	-1.266	.5793	7.726	.302
DEC	12.04	7.844	.4658	.6513	8.527	.182	.9671	.3522	-.7510	.3642	9.212	.309
JAN	13.62	9.082	1.161	.6666	9.645	.525	1.045	.2866	.0136	.2743	9.954	.545
FEB	18.04	8.415	.5872	.4665	12.77	.104	1.205	.2248	-.5736	.1865	11.48	.184
MAR	24.73	9.626	.3870	.3892	17.51	.009	1.360	.1770	-.2037	.1302	12.95	.024
APR	20.54	10.85	.3708	.5282	14.54	.507	1.245	.2585	-.3385	.2077	11.86	.408
MAY	14.09	8.897	.7884	.6314	9.976	.183	1.061	.2893	-.0820	.2727	10.10	.162
JUN	6.993	6.384	2.018	.9129	4.951	.625	.7126	.3344	.3468	.4693	6.787	.580
JUL	5.115	3.221	.3572	.6299	3.621	.402	.5904	.3721	-1.016	.6303	5.623	.481
AUG	6.677	9.544	3.066	1.429	4.727	.091	.5626	.4919	-.2656	.8743	5.359	.330
SEP	5.226	5.000	1.516	.9567	3.700	.261	.5193	.4479	-.1897	.8624	4.947	.379

1-4040.00 GREEN BROOK AT BOUND BROOK, N. J.

Location.--Lat 40°33'55", long 74°31'30", 300 ft downstream from State Highway 28.

Drainage area.--49 sq mi approximately.

Remarks.--Diversion from wells and sewage inflow significant at low flow.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1924					14	8	2	14	19	36	8	15	14	29	37	40	20	18	20	25	9	5	10	11	4	3	3	1			1			29159.0	
1925					6	16	17	26	33	51	20	24	45	30	30	15	14	4	6	5	7	3	3	4	1	1	1	1	1	1	1	1	1	1	19009.0
1926			2		2	8	14	30	25	12	8	26	51	40	35	38	18	15	4	8	4	9	5	1	3	1	3	1			1		1	23547.0	
1927						1	3	8	5	6	12	19	30	36	39	42	50	35	26	12	6	9	5	3	6	4	1	2			1	1	1	1	34188.0
1928											1	4	26	67	68	51	42	42	20	13	9	5	3	1	4	3			2	1	2	1	1	39113.0	
1929			1	2	2	9	4	6	9	17	9	43	72	45	34	27	41	7	7	9	2	3	4	3	1	4	1							23315.0	
1930			2	6	2	5	8	14	14	46	10	7	17	16	24	80	42	24	15	13	7	2	5	2		2	1	1						26047.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2557	100.0	9	23.00	132	2174	85.0	18	100.0	118	473	16.5	27	440	8	29	1.1
1	6.00	2	2557	100.0	10	27.00	64	2042	79.9	19	120.0	86	305	11.9	28	520	3	21	.8
2	7.10	9	2555	99.9	11	31.00	145	1978	77.4	20	140.0	43	219	8.6	29	610	4	18	.7
3	8.40	4	2546	99.6	12	37.00	232	1833	71.7	21	160.0	43	176	6.9	30	720	6	14	.5
4	9.90	29	2542	99.4	13	44.00	230	1601	62.6	22	190.0	34	133	5.2	31	850	3	8	.3
5	12.00	50	2513	98.3	14	51.00	322	1371	53.6	23	230.0	25	99	3.9	32	1000	2	5	.1
6	14.00	54	2463	96.3	15	61.00	272	1049	41.0	24	270.0	18	74	2.9	33	1200	1	3	.1
7	16.00	98	2409	94.2	16	72.00	218	777	30.4	25	320.0	14	56	2.2	34	1400	2	2	.0
8	19.00	137	2311	90.4	17	84.00	136	559	21.9	26	370.0	13	42	1.6					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

GREEN BROOK AT BOUND BROOK, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1924	18.0 5	18.0 5	19.6 5	21.9 5	24.1 4	26.8 4	32.4 4	35.1 4	36.2 2	78.4 4
1925	10.0 3	11.3 3	12.0 3	13.6 3	16.0 2	19.0 2	22.3 1	22.2 1	26.1 1	52.8 1
1926	8.0 1	8.7 1	11.3 2	13.3 2	14.5 1	17.5 1	25.2 2	29.5 2	53.0 4	74.7 3
1927	13.0 4	15.0 4	18.3 4	20.7 4	26.2 5	41.5 5	51.0 6	59.4 6	93.2 6	103.0 6
1928	32.0 6	34.0 6	34.6 6	36.4 6	38.8 6	41.6 6	43.1 5	50.0 5	59.5 5	86.9 5
1929	8.0 2	9.3 2	10.6 1	11.6 1	18.0 3	22.3 3	26.2 3	31.6 3	44.7 3	67.9 2
MEAN	14.833	16.050	17.733	19.583	22.933	28.117	33.367	37.967	52.117	77.283
VARIANCE	84.967	89.851	82.687	85.686	81.462	118.462	129.427	194.643	545.669	289.845
STD DEV	9.218	9.479	9.093	9.257	9.026	10.884	11.377	13.951	23.360	17.025
SKEWNESS	1.660	1.753	1.591	1.437	1.215	.627	.843	.749	1.123	.145
SE OF SKEW	.845	.845	.845	.845	.845	.845	.845	.845	.845	.845
SER CORR	-.293	-.248	-.225	-.247	-.006	.118	.094	.185	.257	.091
C OF VAR	.621	.591	.513	.473	.394	.387	.341	.367	.448	.220

LOGS

MEAN OF	1.113	1.154	1.209	1.257	1.335	1.423	1.503	1.556	1.682	1.879
VAR OF	.055	.049	.039	.035	.025	.027	.020	.025	.036	.01
STD DEV OF	.234	.221	.197	.186	.160	.164	.142	.157	.190	.0
SKEW OF	.998	1.046	.975	.828	.670	.397	.562	.262	.170	-
SE OF SKEW OF	.845	.845	.845	.845	.845	.845	.845	.845	.845	
SER CORR OF	-.291	-.237	-.230	-.269	.031	.105	.100	.203	.333	
C OF VAR OF	.211	.191	.163	.148	.119	.116	.094	.101	.113	

1-4040.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

GREEN BROOK AT BOUND BROOK, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1924	800.0 5	498.0 5	346.0 4	247.0 4	174.0 4	156.0 2	145.0 1	129.0 1	118.0 1	79.7 3
1925	800.0 6	663.0 2	429.0 2	278.0 3	201.0 3	141.0 4	113.0 5	96.0 5	76.2 7	52.1 7
1926	1100.0 3	547.0 4	302.0 6	204.0 6	156.0 5	107.0 6	93.1 6	90.0 6	78.4 6	64.5 4
1927	1400.0 2	660.0 3	375.0 3	316.0 1	235.0 1	178.0 1	129.0 3	112.0 3	97.9 3	93.7 2
1928	1500.0 1	867.0 1	459.0 1	301.0 2	206.0 2	144.0 3	132.0 2	117.0 2	117.0 2	107.0 1
1929	800.0 4	451.0 6	307.0 5	225.0 5	154.0 6	137.0 5	123.0 4	110.0 4	92.3 4	63.9 5
1930	410.0 7	296.0 7	181.0 7	141.0 7	118.0 7	91.6 7	91.3 7	84.5 7	78.8 5	65.1 6

MEAN	972.857	568.857	342.714	244.571	177.714	136.371	118.057	105.500	94.086	73.714
VARIANCE	147157.062	33316.457	8517.566	3694.284	1539.570	844.232	404.813	253.083	319.048	423.015
STD DEV	383.610	182.528	92.291	60.781	39.237	29.056	20.120	15.909	17.862	20.567
SKEWNESS	.135	.222	-.621	-.627	-.051	-.331	-.319	.059	.516	.719
SE OF SKEW	.794	.794	.794	.794	.794	.794	.794	.794	.794	.794
SER CORR	.420	.069	.028	.056	.072	-.233	-.046	-.067	-.050	.184
C OF VAR	.394	.321	.269	.249	.221	.213	.170	.151	.190	.279

LOGS

MEAN OF	2.955	2.734	2.519	2.375	2.240	2.126	2.066	2.019	1.967	1.854
VAR OF	.036	.022	.018	.015	.010	.010	.006	.004	.007	.014
STD DEV OF	.191	.149	.134	.121	.100	.098	.077	.066	.081	.117
SKEW OF	-.745	-.634	-1.299	-1.127	-.497	-.731	-.518	-.141	.377	.432
SE OF SKEW OF	.794	.794	.794	.794	.794	.794	.794	.794	.794	.794
SER CORR OF	.456	.216	.151	.100	.138	-.220	-.062	-.064	-.030	.175
C OF VAR OF	.065	.055	.053	.051	.045	.046	.037	.033	.041	.063

STATISTICS OF MONTHLY MEANS, 1924-1930

STATISTICS OF LOGS OF MONTHLY MEANS, 1924-1930

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	61.97	44.08	2.017	.7114	6.976	.402	1.720	.2578	.8606	.1499	8.015	.505
NOV	61.17	35.30	.5310	.5770	6.886	.461	1.717	.2754	-.2277	.1604	8.002	.583
DEC	78.32	28.36	.1918	.3622	8.817	.761	1.867	.1682	-.4201	.0901	8.704	.739
JAN	74.58	29.28	1.210	.3926	8.396	.217	1.847	.1597	.5187	.0865	8.607	.369
FEB	121.0	36.54	.4103	.3020	13.62	-.771	2.065	.1347	-.2589	.0652	9.627	-.820
MAR	99.86	14.73	.5786	.1475	11.24	-.310	1.995	.0629	.4096	.0315	9.302	-.368
APR	93.99	45.22	.8887	.4811	10.58	.824	1.933	.1994	.5401	.1032	9.008	.784
MAY	67.82	35.80	1.347	.5278	7.635	.858	1.786	.2086	.7174	.1168	8.324	.820
JUN	46.34	27.59	1.504	.5954	5.217	.316	1.611	.2271	.8909	.1410	7.508	.450
JUL	55.78	60.61	2.068	1.086	6.280	.936	1.573	.3984	.8324	.2532	7.335	.910
AUG	70.85	74.89	1.961	1.057	7.977	.193	1.677	.4071	.6223	.2428	7.816	.379
SEP	56.58	36.56	.4065	.6462	6.370	.697	1.663	.3130	-.1155	.1882	7.751	.838

1-4053.00 MATCHAPONIX BROOK AT SPOTSWOOD, N. J.

Location.--Lat 40°22'52", long 74°22'51", 0.9 mile southeast of Spotswood.

Drainage area.--43.9 sq mi.

Remarks.--Occasional regulation; probably not significant. Diversion from wells may be significant at low flow.

DURATION TABLE OF DAILY DISCHARGE

[illegible]

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	3652	100.0	9	11.00	117	3345	91.6	18	280	23	89	2.4	27	280	23	89	2.4
1	2.50	0	3652	100.0	10	13.00	78	3228	88.4	19	66.0	239	38.3	26.4	28	340	24	66	1.8
2	3.00	1	3652	100.0	11	15.00	143	3150	86.3	20	79.0	154	72.4	19.8	29	400	13	42	1.1
3	3.60	18	3651	100.0	12	18.00	204	3007	82.3	21	94.0	118	570	15.6	30	480	7	29	0.8
4	4.30	41	3633	99.5	13	22.00	178	2803	76.8	22	110.0	170	452	12.4	31	580	8	22	0.6
5	5.20	56	3592	98.4	14	26.00	283	2625	71.9	23	140.0	66	282	7.7	32	700	8	14	0.4
6	6.20	41	3536	96.8	15	32.00	279	2342	64.1	24	160.0	66	216	5.9	33	830	4	6	0.2
7	7.40	41	3495	95.7	16	38.00	365	2063	56.5	25	200.0	40	150	4.1	34	1000	2	2	0.1
8	8.90	109	3454	94.6	17	46.00	426	1698	46.5	26	230.0	21	110	3.0					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MATCH-AFCNIX BROOK AT SPOTSWOOD, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1958	10.0 7	10.3 7	11.0 7	12.6 7	19.2 6	24.3 6	27.6 6	28.9 5	48.1 7	68.8
1959	5.4 5	6.1 5	7.0 5	9.3 5	12.7 5	19.0 5	27.5 5	35.5 6	40.6 5	64.0
1960	13.0 8	13.3 8	16.3 8	30.1 9	38.8 9	48.8 9	51.9 9	56.3 9	71.1 9	87.2
1961	20.0 9	21.0 9	22.9 9	24.4 8	34.2 8	40.5 8	42.4 8	46.1 8	54.7 8	80.5
1962	10.0 6	10.0 6	10.1 6	11.6 6	24.0 7	35.0 7	36.2 7	38.8 7	40.7 6	58.3
1963	3.6 2	3.7 1	4.3 2	4.4 2	6.0 2	7.0 2	7.7 2	10.7 1	14.7 1	44.0
1964	4.5 4	4.7 3	5.0 3	5.5 3	6.7 3	11.4 3	16.7 4	18.0 4	22.4 3	48.1
1965	4.3 3	4.9 4	5.6 4	7.8 4	9.6 4	13.0 4	13.8 3	14.7 2	19.2 2	35.9
1966	3.5 1	3.8 2	3.8 1	4.3 1	5.9 1	6.2 1	7.6 1	17.5 3	35.2 4	56.4

MEAN	7.680	8.060	8.900	11.330	16.150	21.050	23.750	27.350	35.790	60.350
VARIANCE	30.948	32.625	40.922	81.924	155.556	242.405	255.865	269.489	367.498	249.629
STD DEV	5.563	5.712	6.397	9.051	12.472	15.569	15.996	16.416	19.170	15.800
SKEWNESS	1.358	1.451	1.392	1.386	.938	.739	.531	.504	.427	.257
SE OF SKEW	.687	.687	.687	.687	.687	.687	.687	.687	.687	.687
SER CORR	.357	.352	.385	.409	.441	.420	.464	.544	.371	.562
C OF VAR	.724	.709	.719	.799	.772	.740	.674	.600	.536	.262

LOGS

MEAN OF	.793	.820	.860	.943	1.089	1.204	1.270	1.355	1.489	1.767
VAR OF	.086	.079	.083	.104	.116	.123	.113	.087	.069	.014
STD DEV OF	.292	.282	.287	.322	.341	.351	.337	.294	.263	.117
SKEW OF	.467	.499	.481	.442	.261	-.013	-.228	-.351	-.421	-.313
SE OF SKEW OF	.687	.687	.687	.687	.687	.687	.687	.687	.687	.687
PUR CORR OF	.293	.309	.344	.358	.356	.287	.283	.372	.254	.538
C OF VAR OF	.369	.343	.334	.342	.313	.292	.265	.217	.177	.066

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	1.638	1.859	1.970	1.991	2.298	2.417	2.695	3.945	6.272	29.34
20.00	2.260	2.512	2.691	2.860	3.584	4.215	4.955	6.980	10.649	36.65
10.00	2.730	3.003	3.235	3.533	4.598	5.665	6.775	9.311	13.877	41.07
5.00	3.491	3.792	4.112	4.646	6.288	8.098	9.790	13.005	18.818	46.84
2.00	5.896	6.264	6.872	8.299	11.865	16.013	19.163	23.583	32.142	59.28
1.25	10.724	11.166	12.378	16.017	23.497	31.582	35.977	40.434	51.697	73.58
1.11	15.118	15.590	17.369	23.320	34.253	44.997	49.198	52.452	64.771	81.76
1.04	22.330	22.811	25.536	35.684	51.981	65.586	67.866	68.139	81.007	90.99
1.02	29.116	29.575	33.203	47.628	68.631	83.624	82.996	80.005	92.768	97.11
1.01	37.301	37.710	42.436	62.336	88.624	104.022	99.037	91.919	104.189	102.70

1-4053.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MATCHAFENIX BROOK AT SPOTSWOOD, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1958	798.0 6	554.0 4	364.0 2	269.0 1	221.0 1	177.0 2	172.0 1	164.0 1	134.0 1	80.5 2
1959	1000.0 2	633.0 2	330.0 4	204.0 5	132.0 6	94.9 8	78.7 9	75.7 9	77.2 7	60.1 6
1960	1420.0 1	768.0 1	380.0 1	225.0 3	152.0 4	118.0 4	110.0 4	107.0 4	91.3 3	78.7 3
1961	856.0 4	520.0 5	324.0 5	229.0 2	202.0 2	194.0 1	182.0 2	138.0 2	117.0 2	89.1 1
1962	854.0 5	493.0 6	284.0 6	205.0 4	176.0 3	139.0 3	113.0 3	109.0 3	89.5 4	64.8 5
1963	453.0 10	274.0 10	192.0 10	143.0 9	119.0 7	96.5 7	82.4 8	76.4 7	67.0 8	43.0 9
1964	648.0 8	449.0 8	234.0 9	144.0 8	116.0 8	99.6 6	95.1 6	93.5 5	86.2 5	53.8 7
1965	560.0 9	390.0 9	238.0 8	141.0 10	109.0 10	94.5 9	84.0 7	75.7 8	65.8 9	44.0 8
1966	760.0 7	453.0 7	275.0 7	152.0 7	112.0 9	73.6 10	62.7 10	65.2 10	53.9 10	37.4 10
1967	896.0 3	617.0 3	336.0 3	203.0 6	151.0 5	112.0 5	105.0 5	93.0 6	85.7 6	73.1 4
MEAN	835.500	515.100	295.700	191.500	149.000	119.910	106.490	99.750	86.760	62.510
VARIANCE	77231.375	19141.414	3758.676	1969.389	1553.555	1506.170	1259.504	967.732	575.175	313.752
STD DEV	277.905	138.352	61.308	44.378	39.415	38.809	35.489	31.108	23.983	17.713
SKEWNESS	1.245	.127	-.305	.238	.815	1.061	.995	1.107	.805	.010
SE OF SKEW	.687	.687	.687	.687	.687	.687	.687	.687	.687	.687
SER CORR	.308	.399	.611	.620	.299	.175	.008	.017	.113	.331
C OF VAR	.333	.269	.207	.232	.265	.324	.333	.312	.276	.283

LOGS

MEAN OF	2.902	2.697	2.462	2.272	2.160	2.060	2.007	1.982	1.924	1.779
VAR OF	.019	.016	.009	.010	.012	.017	.019	.016	.014	.017
STD DEV OF	.139	.125	.095	.102	.110	.131	.137	.126	.117	.129
SKEW OF	.096	-.710	-.629	-.030	.540	.607	.449	.627	.188	-.321
SE OF SKEW OF	.687	.687	.687	.687	.687	.687	.687	.687	.687	.687
SER CORR OF	.311	.340	.587	.637	.358	.205	.015	.037	.142	.307
C OF VAR OF	.048	.046	.039	.045	.051	.064	.068	.064	.061	.073

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECUORENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	387.451	220.803	157.486	107.838	88.938	65.162	54.221	55.773	46.528	28.110
1.05	475.307	294.983	194.928	126.899	99.580	73.983	63.188	62.879	54.669	35.957
1.11	531.020	339.254	216.280	138.337	106.552	79.940	69.107	67.678	59.758	40.737
1.25	608.376	396.589	243.127	153.512	116.493	88.648	77.615	74.690	66.752	47.106
2.00	793.474	514.373	296.298	187.091	141.414	111.433	99.311	93.004	83.234	61.113
5.00	1042.361	635.960	349.560	227.633	177.272	146.257	131.389	120.890	105.030	77.521
10.00	1205.633	698.073	376.510	252.042	202.191	171.674	154.207	141.172	119.184	87.025
25.00	1411.132	761.437	404.037	280.822	235.082	206.573	184.900	168.935	136.890	97.819
50.00	1564.052	800.203	420.974	301.055	260.647	234.665	209.156	191.223	150.011	105.132
100.00	1717.123	833.326	435.553	320.439	287.154	264.615	234.639	214.933	163.110	111.922

STATISTICS OF MONTHLY MEANS, 1958-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1958-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
JAN	40.58	29.10	1.135	.7172	5.397	.297	1.506	.3194	.0396	.2120	7.401	.566
FEB	49.40	22.43	-.0337	.4541	6.571	.368	1.643	.2367	-.7817	.1441	8.072	.450
MAR	61.71	17.40	-.1351	.2819	8.208	.003	1.772	.1376	-1.121	.0776	8.708	.264
APR	80.20	36.14	.6636	.4507	10.67	.701	1.863	.2016	-.1320	.1082	9.155	.739
MAY	94.34	23.92	.4153	.2536	12.55	.349	1.962	.1104	-.0011	.0563	9.640	.337
JUN	115.0	46.71	.4644	.4061	15.30	.179	2.027	.1831	-.1845	.0903	9.959	.089
JUL	84.86	40.00	.4171	.4714	11.29	.651	1.880	.2270	-.5165	.1208	9.235	.595
AUG	61.61	34.23	1.009	.5556	8.195	.487	1.733	.2313	.3975	.1335	8.513	.320
SEP	32.42	13.72	-.1976	.4231	4.312	.350	1.472	.1972	-.2188	.1339	7.234	.485
OCT	49.08	29.84	-.0356	.6081	6.528	.360	1.569	.4015	-1.178	.2559	7.709	.441
NOV	39.30	34.80	1.217	.8854	5.227	.609	1.414	.4480	-.2144	.3169	6.945	.783
DEC	43.31	41.42	2.331	.9564	5.760	.178	1.512	.3225	.9394	.2133	7.429	.345

1-4054.00 MANALAPAN BROOK AT SPOTSWOOD, N. J.

Location.--Lat 40°23'22", long 74°23'27", at Devoe Lake Dam.

Drainage area.--40.7 sq mi.

Remarks.--Regulation reduces flood peaks and is significant at low flow.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1958			1											3	3	3	20	15	50	29	44	29	30	29	23	20	24	15	6	8	8	3		2	28320.4	
1959	1		1							3	1	2	12	7	2	9	13	15	35	37	74	45	36	22	17	16	6	2	3	2	2		2		19876.9	
1960		1															8	18	44	26	30	45	53	47	28	23	20	6	9	2	2	2	1	1	26715.1	
1961																	2	6	22	37	60	53	41	48	27	16	18	10	7	4	6	3	4	1	29179.0	
1962																	5	27	11	34	27	70	33	57	31	22	13	12	9	6	2	4		1	1	23931.0
1963					1			4			4	9	9	13	13	6	19	11	10	18	35	27	52	37	12	44	13	14	6	2	4	2			20319.1	
1964										5	8	19	19	12	18	38	19	6	28	18	36	38	28	25	11	12	10	6	5	3	2				17571.8	
1965								2		6	5	13	15	11	7	26	34	24	32	11	26	47	35	27	18	13	7	2	2	1		1			16813.3	
1966			5			18		22		10	12	8	8	16	11	34	40	31	47	15	25	16	11	9	6	7	4	2	3	1		1	3		12821.0	
1967																1	6	9	30	63	53	53	44	37	18	18	13	6	4	4	2	2	1	1	24657.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1	3652	100.0	9	5.00	28	3596	98.5	18	27.0	340	2846	77.9	27	150	64	200	5.
1	1.10	1	3651	100.0	10	6.00	35	3568	97.7	19	33.0	298	2506	68.6	28	180	47	136	3.
2	1.30	7	3650	99.9	11	7.30	51	3533	96.7	20	40.0	445	2208	60.5	29	220	31	89	2.
3	1.60	0	3643	99.8	12	8.80	67	3482	95.3	21	48.0	411	1763	48.3	30	260	28	58	1.
4	1.90	0	3643	99.8	13	11.00	62	3415	93.5	22	58.0	372	1352	37.0	31	320	12	30	
5	2.30	19	3643	99.8	14	13.00	47	3353	91.8	23	70.0	287	980	26.8	32	390	11	18	
6	2.80	0	3624	99.2	15	16.00	135	3306	90.5	24	85.0	214	693	19.0	33	470	5	7	
7	3.40	28	3624	99.2	16	19.00	180	3171	86.8	25	100.0	151	479	13.1	34	560	2	2	
8	4.10	0	3596	98.5	17	23.00	145	2991	81.9	26	120.0	128	328	9.0					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MANALAPAN BROOK AT SPOTSWOOD, N.J.

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL
1958	1.4	4	16.5	6	24.1	8	26.4	7	33.4	7	37.2	6	39.0	6	41.3	6	51.0	7	66.5
1959	0.0	1	2.1	2	4.4	3	7.8	5	11.9	5	27.4	5	34.1	5	41.0	5	41.1	5	62.8
1960	1.1	2	21.3	8	24.0	7	32.7	9	38.0	9	44.2	9	49.3	8	51.2	8	60.1	9	76.9
1961	20.0	9	22.3	9	24.6	9	26.9	8	34.5	8	41.6	8	50.3	9	53.3	9	56.7	8	74.2
1962	17.0	8	18.7	7	19.4	6	20.4	6	30.5	6	39.9	7	40.1	7	42.9	7	45.5	6	67.8
1963	2.4	5	3.2	3	4.2	2	5.6	2	7.8	3	14.6	4	14.5	3	17.5	3	26.2	3	44.1
1964	5.0	7	5.5	5	6.1	5	6.3	3	7.7	2	11.4	3	16.6	4	18.8	4	24.0	2	50.3
1965	3.6	6	4.1	4	4.8	4	6.5	4	8.1	4	10.4	2	12.9	2	13.9	2	17.3	1	35.6
1966	1.4	3	1.7	1	2.0	1	2.1	1	3.2	1	4.5	1	5.7	1	13.5	1	29.4	4	49.5

1-4054.00 MANALAFAN BROOK AT SPOTSWOOD, N. J.

LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1 ^a	3	7	14	30	60	90	120	183	ANNUAL
MEAN		9.720	11.930	14.190	18.300	24.080	27.300	30.520	36.910	58.720
VARIANCE		77.330	94.313	124.761	192.351	241.782	288.273	283.235	256.312	181.617
STD DEV		8.794	9.712	11.170	13.869	15.549	16.979	16.830	16.010	13.477
SKEWNESS		.530	.507	.648	.464	.140	.162	.148	.183	-.332
SE OF SKEW		.687	.687	.687	.687	.687	.687	.687	.687	.687
SER CORR		.153	.106	.189	.237	.504	.566	.599	.458	.588
C OF VAR		.905	.814	.787	.758	.646	.622	.551	.434	.230

LOGS -

MEAN OF	.783	.923	1.011	1.129	1.275	1.339	1.416	1.527	1.757
VAR OF	.217	.159	.150	.140	.119	.107	.070	.041	.011
STD DEV OF	.465	.399	.388	.374	.346	.328	.265	.202	.107
SKEW OF	.138	.070	-.166	-.073	-.462	-.458	-.085	-.221	-.713
SE OF SKEW OF	.687	.687	.687	.687	.687	.687	.687	.687	.687
SER CORR OF	-.093	.131	.295	.342	.561	.529	.536	.415	.539
C OF VAR OF	.594	.432	.383	.332	.271	.245	.187	.133	.061

^a Statistics not computed, less than ten non-zero input values.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1 ^b	3	7	14	30	60	90	120	183	ANNUAL
100.00		.560	1.037	1.154	1.730	2.270	2.942	6.063	10.546	28.456
20.00		1.088	1.884	2.267	3.203	4.622	5.767	9.409	15.188	36.514
10.00		1.564	2.600	3.219	4.431	6.583	8.061	11.854	18.321	41.182
5.00		2.448	3.856	4.877	6.538	9.873	11.832	15.631	22.850	47.102
2.00		5.923	8.288	10.506	13.604	20.012	23.120	26.284	34.211	58.900
1.25		14.838	18.087	21.860	27.889	37.196	41.641	43.663	49.992	70.672
1.11		24.322	27.363	31.625	40.349	49.763	54.907	56.655	60.380	76.553
1.04		41.645	42.748	46.411	59.562	66.268	72.100	74.524	73.326	82.471
1.02		59.299	57.173	59.133	76.415	78.731	84.949	88.787	82.813	86.054
1.01		81.818	74.391	73.259	95.459	91.173	97.688	103.797	92.158	89.093

^b Not computed, less than ten non-zero input values.

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MANALAFAN BROOK AT SPOTSWOOD, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1958	521.0 3	363.0 5	263.0 2	195.0 1	172.0 1	151.0 2	143.0 1	137.0 1	119.0 1	77.6 2
1959	456.0 6	318.0 7	206.0 7	134.0 8	94.4 10	76.0 9	66.7 9	67.5 9	65.6 9	54.5 7
1960	564.0 2	423.0 2	237.0 4	153.0 5	112.0 7	108.0 4	103.0 3	101.0 3	89.2 3	73.0 3
1961	473.0 5	373.0 3	276.0 1	192.0 2	165.0 2	161.0 1	135.0 2	118.0 2	100.0 2	79.9 1
1962	500.0 4	363.0 4	224.0 5	157.0 4	135.0 3	121.0 3	99.6 4	98.5 4	85.6 4	65.6 5
1963	280.0 10	257.0 8	192.0 8	147.0 6	121.0 5	104.0 5	92.7 6	88.4 5	80.5 5	55.7 6
1964	285.0 9	247.0 10	166.0 10	122.0 9	104.0 8	82.5 8	81.3 8	81.5 7	72.7 7	48.0 8
1965	340.0 8	254.0 9	187.0 9	121.0 10	101.0 9	91.6 7	84.0 7	79.7 8	71.0 8	46.1 9
1966	451.0 7	334.0 6	223.0 6	138.0 7	114.0 6	74.6 10	63.5 10	62.0 10	51.4 10	35.1 10
1967	621.0 1	433.0 1	249.0 3	159.0 3	124.0 4	96.2 6	95.1 5	85.4 6	79.0 6	67.6 4

1-4054.00 MANALAPAN BROOK AT SPOTSWOOD, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	449.100	336.500	222.300	151.800	124.240	106.590	96.390	91.900	81.400	60.310
VARIANCE	13173.414	4557.387	1230.232	658.844	684.841	891.235	675.217	515.828	353.140	218.765
STD DEV	114.775	67.508	35.075	25.668	26.169	29.854	25.985	22.712	18.792	14.791
SKEWNESS	-.316	-.070	-.033	.674	.988	.897	.728	.783	.573	-.248
SE OF SKEW	.687	.687	.687	.687	.687	.687	.687	.687	.687	.687
SER CORR	.417	.402	.359	.167	-.080	.104	-.109	-.055	-.002	.309
C OF VAR	.256	.201	.158	.169	.211	.280	.270	.247	.231	.245

LOGS

MEAN OF	2.638	2.519	2.342	2.176	2.086	2.013	1.970	1.952	1.900	1.768
VAR OF	.014	.008	.005	.005	.008	.013	.013	.011	.010	.013
STD DEV OF	.120	.090	.070	.072	.087	.116	.114	.104	.101	.114
SKEW OF	-.671	-.310	-.300	.403	.714	.532	.221	.264	-.136	-.671
SE OF SKEW OF	.687	.687	.687	.687	.687	.687	.687	.687	.687	.687
SER CORR OF	.467	.449	.403	.217	-.069	.094	-.133	-.053	.016	.289
C OF VAR OF	.046	.036	.030	.033	.042	.057	.058	.054	.053	.065

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	199.969	194.804	145.910	107.342	85.212	61.672	52.849	53.620	45.330	27.976
1.05	263.141	230.969	166.457	116.648	91.880	69.534	61.618	61.415	53.841	36.324
1.11	300.609	251.828	177.992	122.396	96.342	74.703	67.106	66.272	58.892	41.227
1.25	348.990	278.521	192.463	130.212	102.782	82.096	74.657	72.930	65.522	47.515
2.00	448.245	333.756	221.528	148.276	119.115	100.739	92.495	88.567	79.895	60.285
5.00	551.121	393.938	252.099	171.514	142.745	127.810	116.179	109.178	96.701	73.374
10.00	604.078	427.094	268.538	186.275	159.143	146.768	131.615	122.540	106.537	80.062
25.00	658.550	463.528	286.317	204.440	180.713	171.949	150.989	139.249	117.873	86.911
50.00	692.166	487.568	297.903	217.714	197.414	191.631	165.389	151.630	125.680	91.123
100.00	721.109	509.475	308.366	230.826	214.668	212.128	179.799	163.995	133.037	94.741

STATISTICS OF MONTHLY MEANS, 1958-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1958-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	41.12	21.61	.5005	.5257	5.672	.523	1.554	.2474	-.2243	.1592	7.596	.753
NOV	51.79	20.83	.4646	.4022	7.145	.455	1.680	.1893	-.5249	.1127	8.207	.595
DEC	64.85	18.32	-.4155	.2825	8.947	.165	1.793	.1410	-1.195	.0786	8.763	.343
JAN	75.72	24.98	.1106	.3299	10.45	.791	1.855	.1600	-.9323	.0863	9.064	.832
FEB	86.46	19.15	.6644	.2215	11.93	.155	1.928	.0939	.2975	.0487	9.419	.132
MAR	101.4	35.82	.4063	.3533	13.98	.198	1.981	.1562	-.0198	.0789	9.680	.203
APR	81.16	31.53	-.0610	.3884	11.20	.584	1.874	.1930	-.7541	.1030	9.159	.511
MAY	61.91	28.10	1.707	.4540	8.541	.419	1.759	.1702	.9572	.0968	8.595	.283
JUN	36.23	13.52	.3600	.3732	4.999	.090	1.530	.1713	-.3295	.1119	7.477	.080
JUL	42.61	21.27	-.5622	.4992	5.879	.259	1.537	.3634	-1.909	.2363	7.513	.519
AUG	41.72	34.76	.9056	.8333	5.755	.749	1.445	.4478	-.3159	.3099	7.061	.797
SEP	39.92	25.26	1.629	.6328	5.508	.325	1.528	.2698	-.1451	.1766	7.468	.491

1-4060.00 DEEP RUN NEAR BROWNTOWN, N. J.

Location.--Lat 40°22'30", long 74°18'14", 5 ft upstream from highway bridge, 0.7 mile downstream from Middlesex-Monmouth county line.

Drainage area.--8.07 sq mi.

Remarks.--Occasional regulation; probably not significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1933			3	2		6	7	7	6	13	15	7	15	19	21	41	58	39	33	11	17	15	7	9	3	2	3	1	2	2		1				5313.4
1934						11	19	11	16	25	23	50	33	16	23	29	29	27	14	10	3	5	3	2	3	4	3	2	1			1		1	1	4880.4
1935			1	5	4	6	11	18	12	12	6	11	16	22	33	47	53	37	31	8	9	9	1	5	1	1	1	3		2						4701.2
1936	1	15	11	7	9	10	16	14	19	14	20	7	23	21	22	33	27	15	21	11	15	6	8	6	5		4		1	3	1	1			5183.1	
1937		1	3	7	11	5	3	3	10	12	31	21	33	15	19	36	51	29	13	17	13	8	9	5	3	3	2		1	1					5105.8	
1938							7	3	12	15	22	18	34	37	41	57	39	23	7	13	9	3	6	4	2	3	2	1		2	1	3		1		5966.4
1939		7	6	10	14	12	14	14	15	6	5	6	7	8	18	49	39	42	19	18	14	12	11	5	2	4	2	2	1	1	2				5789.1	
1940						5	3	8	17	32	36	28	30	27	20	19	32	24	20	19	12	12	5	4	3	1	2	3	3			1				4396.1

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2922	100.0	9	2.90	129	2557	87.5	18	15.0	220	758	25.9	27	75	70	59	2.0
1	0.70	1	2922	100.0	10	3.50	129	2428	83.1	19	18.0	112	538	18.4	28	89	10	39	1.3
2	0.80	27	2921	100.0	11	4.20	147	2299	78.7	20	21.0	107	426	14.6	29	110	7	29	.9
3	1.00	27	2894	99.0	12	5.00	163	2152	73.6	21	25.0	90	319	10.9	30	130	7	22	.7
4	1.20	28	2867	98.1	13	6.00	198	1989	68.1	22	30.0	47	229	7.8	31	150	8	15	.5
5	1.40	51	2839	97.2	14	7.20	171	1791	61.3	23	36.0	55	182	6.2	32	180	4	7	.2
6	1.70	59	2788	95.4	15	8.60	230	1620	55.4	24	44.0	29	127	4.3	33	220	1	3	.1
7	2.10	92	2729	93.4	16	10.00	347	1390	47.6	25	52.0	19	98	3.4	34	260	2	2	.0
8	2.50	80	2637	90.2	17	12.00	285	1043	35.7	26	62.0	20	79	2.7					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

DEEP RUN NEAR BROWNTOWN, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1933	1.5 5	1.6 5	1.9 5	2.1 5	3.1 6	4.3 5	6.6 6	8.3 6	7.7 4	13.1 4
1934	1.7 6	1.8 6	2.1 6	2.2 6	2.9 5	4.8 6	5.0 5	6.4 5	12.0 6	14.5 6
1935	0.9 3	1.0 3	1.1 3	1.2 3	1.6 3	2.9 3	4.1 3	4.0 3	5.6 2	14.1 5
1936	0.7 1	0.8 1	0.9 1	1.0 1	1.5 2	1.7 1	3.0 1	3.7 2	7.1 3	13.0 3
1937	0.9 4	1.0 4	1.2 4	1.6 4	2.0 4	3.1 4	4.7 4	6.4 4	8.3 5	12.2 2
1938	2.1 7	2.2 7	2.3 7	2.8 7	3.5 7	8.3 7	13.7 7	17.3 7	17.8 7	21.1 7
1939	0.8 2	0.9 2	0.9 2	1.0 2	1.2 1	2.0 2	3.0 2	3.4 1	4.7 1	9.6

MEAN	1.229	1.329	1.486	1.700	2.257	3.871	5.729	7.071	9.029	13.943
VARIANCE	.289	.289	.355	.477	.810	5.069	13.906	23.552	20.379	12.509
STD DEV	.538	.538	.596	.690	.900	2.251	3.729	4.853	4.514	3.537
SKEWNESS	.735	.735	.398	.502	.278	1.422	2.073	1.949	1.445	1.467
SE OF SKEW	.794	.794	.794	.794	.794	.794	.794	.794	.794	.794
SER CORR	-.202	-.202	-.142	-.187	-.178	-.294	-.277	-.225	-.468	-.686
C OF VAR	.438	.405	.401	.406	.399	.582	.651	.686	.500	.254

LOGS

MEAN OF	.055	.094	.142	.199	.323	.531	.699	.782	.915	1.134
VAR OF	.034	.029	.031	.032	.032	.056	.052	.061	.039	.011
STD DEV OF	.185	.170	.175	.178	.179	.236	.228	.248	.196	.103
SKEW OF	.424	.447	.204	.101	-.034	.409	1.234	1.019	.701	.732
SE OF SKEW OF	.794	.794	.794	.794	.794	.794	.794	.794	.794	.794
SER CORR OF	-.102	-.110	-.089	-.131	-.174	-.214	-.289	-.204	-.533	-.787
C OF VAR OF	3.351	1.806	1.236	.895	.555	.444	.327	.317	.214	.091

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	.483	.569	.576	.627	.797	1.134	2.363	2.461	3.638	8.926
20.00	.596	.688	.731	.815	1.063	1.489	2.620	2.863	4.324	9.742
10.00	.674	.769	.834	.939	1.238	1.744	2.837	3.184	4.819	10.297
5.00	.789	.888	.984	1.118	1.487	2.137	3.214	3.721	5.585	11.108
2.00	1.102	1.206	1.367	1.571	2.107	3.275	4.503	5.498	7.807	13.216
1.25	1.605	1.707	1.937	2.231	2.975	5.290	7.335	9.307	11.757	16.378
1.11	1.988	2.082	2.342	2.690	3.559	6.945	10.119	13.000	15.028	18.638
1.04	2.531	2.608	2.885	3.294	4.304	9.441	15.045	19.459	20.015	21.686
1.02	2.982	3.039	3.313	3.760	4.864	11.620	20.041	25.934	24.423	24.098
1.01	3.474	3.504	3.760	4.241	5.427	14.095	26.485	34.200	29.491	26.635

1-4060.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DEEP RUN NEAR BROWN TOWN, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1933	150.0 7	88.3 6	52.4 6	37.5 6	31.9 5	25.6 5	23.5 5	21.4 6	18.8 5	14.6 3
1934	262.0 2	124.0 2	59.6 3	54.7 3	32.9 4	24.1 8	21.7 7	19.2 7	16.5 7	13.4 6
1935	125.0 8	94.7 5	56.0 5	37.0 8	27.9 8	24.3 7	20.5 8	18.7 8	15.7 8	11.5 8
1936	195.0 3	101.0 4	57.3 4	48.9 4	39.7 3	30.4 2	26.3 3	24.1 2	22.2 2	14.2 4
1937	163.0 6	73.0 8	48.4 7	39.3 5	28.2 7	27.3 4	23.9 4	21.9 5	20.5 3	14.0 5
1938	474.0 1	215.0 1	108.0 1	57.9 1	45.3 1	29.1 3	27.0 2	23.3 3	18.8 4	16.3 1
1939	158.0 4	103.0 3	83.4 2	56.5 2	41.0 2	34.9 1	32.3 1	28.6 1	25.6 1	15.9 2
1940	163.0 5	76.7 7	42.1 8	37.1 7	29.3 6	24.8 6	23.4 6	22.3 4	17.7 6	12.0 7
MEAN	212.500	109.462	63.400	46.112	34.525	27.562	24.825	22.437	19.475	13.987
VARIANCE	12797.426	2075.936	470.751	87.601	43.648	14.063	13.699	9.617	10.451	2.844
STD DEV	113.126	45.562	21.697	9.360	6.607	3.750	3.701	3.101	3.233	1.686
SKEWNESS	2.204	2.178	1.523	.225	.629	1.144	1.179	.970	.929	-.153
SE OF SKEW	.752	.752	.752	.752	.752	.752	.752	.752	.752	.752
SER CORR	-.324	-.330	-.010	-.494	-.302	-.023	.141	.185	-.142	.081
C OF VAR	.532	.416	.342	.203	.191	.136	.149	.138	.166	.121

LOGS

MEAN OF	2.288	2.014	1.783	1.656	1.531	1.437	1.391	1.348	1.285	1.143
VAR OF	.033	.022	.018	.008	.007	.003	.004	.003	.005	.003
STD DEV OF	.182	.148	.132	.088	.081	.056	.062	.058	.069	.053
SKEW OF	1.605	1.574	1.073	.161	.476	.949	.862	.618	.628	-.348
SE OF SKEW OF	.752	.752	.752	.752	.752	.752	.752	.752	.752	.752
SER CORR OF	-.407	-.398	-.089	-.534	-.353	.007	.167	.222	-.100	.056
C OF VAR OF	.080	.073	.074	.053	.053	.039	.044	.043	.054	.047

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	117.781	68.357	37.992	28.964	23.544	22.143	19.348	17.339	14.299	10.131
1.05	122.947	70.948	40.961	32.769	25.716	22.993	20.253	18.330	15.273	11.230
1.11	128.130	73.476	43.235	35.068	27.088	23.592	20.874	18.965	15.902	11.831
1.25	137.947	78.154	46.852	38.139	28.985	24.481	21.782	19.848	16.787	12.567
2.00	174.564	94.868	57.526	45.045	33.498	26.804	24.108	21.956	18.936	13.996
5.00	257.688	130.224	76.233	53.611	39.532	30.208	27.460	24.766	21.870	15.431
10.00	338.960	162.550	91.306	58.902	43.482	32.559	29.757	26.591	23.815	16.176
25.00	480.954	215.549	113.659	65.277	48.455	35.619	32.737	28.869	26.285	16.962
50.00	623.033	265.486	132.919	69.849	52.163	37.959	35.012	30.553	28.137	17.463
100.00	804.311	326.010	154.607	74.302	55.883	40.350	37.333	32.230	30.003	17.908

STATISTICS OF MONTHLY MEANS, 1933-1940

STATISTICS OF LOGS OF MONTHLY MEANS, 1933-1940

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	9.217	4.051	.2943	.4395	5.479	.832	.9262	.1967	.0948	.2124	7.329	.786
NOV	14.80	7.761	.2243	.5244	8.797	-.210	1.111	.2483	-.1290	.2234	8.795	-.191
DEC	13.49	6.857	.9754	.5082	8.020	-.052	1.080	.2302	-.3924	.2132	8.544	.077
JAN	18.07	7.047	-.0883	.3899	10.74	.571	1.224	.1883	-.5522	.1539	9.685	.637
FEB	18.09	9.148	.8557	.5056	10.75	.029	1.199	.2629	-1.283	.2192	9.490	-.102
MAR	22.97	7.978	.2143	.3473	13.66	-.007	1.336	.1604	-.4212	.1200	10.58	-.142
APR	20.84	4.835	-.7662	.2320	12.39	.357	1.307	.1144	-1.360	.0875	10.34	.530
MAY	12.75	4.415	.4586	.3461	7.582	.545	1.083	.1498	.2046	.1383	8.570	.541
JUN	10.56	6.686	1.449	.6333	6.276	-.002	.9586	.2448	.7458	.2554	7.586	.112
JUL	7.680	9.708	2.711	1.264	4.565	.822	.7175	.3513	1.731	.4897	5.678	.705
AUG	5.646	3.378	.2328	.5982	3.356	.139	.6661	.3109	-.4891	.4666	5.272	.135
SEP	14.10	11.08	1.099	.7855	8.382	-.092	1.028	.3598	-.1899	.3501	8.133	-.027

1-4080.00 MANASQUAN RIVER AT SQUANKUM, N. J.

Location.--Lat 40°09'47", long 74°09'21", 20 ft downstream from bridge on State Highway 547.

Drainage area.--43.4 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1932	31	13	43	34	45	23	29	25	34	31	20	11	4	3	8	3	1	3			2			2	1										15584.3		
1933	5	6	14	7	27	12	11	17	23	48	57	29	29	17	19	14	6	10	2	4	1	1	4	1	1										26628.2		
1934		9	23	15	20	7	31	67	37	35	27	29	25	7	13	4	5	3			2	3		1	1				1						21692.2		
1935			10	15	30	21	55	43	24	39	29	25	22	10	17	7	6	3	2			1	3	2		1									21858.4		
1936			5	31	23	28	38	18	20	17	23	25	28	20	9	25	11	12	5	7	8	3	2	3	1	2			1	1					27976.7		
1937				7	20	25	37	28	27	19	31	32	30	23	31	13	8	13	2	5	4	5	2	1	1				1						29858.0		
1938					6	27	33	23	38	49	55	35	23	20	13	8	5	4	3	4	3	3	3	2	4	1				2	2		1	1	37943.0		
1939				8	18	28	19	14	17	5	20	44	33	28	26	30	15	17	13	8	4	3	2	2	3			3							31816.1		
1940					2	42	59	57	25	15	27	37	18	23	13	17	5	5	5	2	2	3	3	2	1	2			1						24266.0		
1941				20	6	16	34	38	26	29	66	35	28	18	10	11	9	3	4	3	3	1			2	2									23340.8		
1942				4	18	49	67	40	39	39	26	18	21	9	9	5	4	2	2	3	7	2	1												19117.6		
1943				1	30	20	9	31	20	27	30	53	45	36	19	7	11	7	5	3	2	1	2	1	3	1									27829.7		
1944				1	25	25	25	15	14	34	30	52	22	21	27	16	16	6	8	1	8	5	3	2	3	3				2					29805.5		
1945								14	24	47	31	50	37	38	29	15	23	14	7	11	6	3	3	3	4	2	1	2				1			32073.0		
1946											15	36	49	39	41	65	32	15	22	12	11	7	6	1	3	2		2	3	2	1			1	32459.0		
1947											10	32	81	31	26	41	43	37	14	13	12	11	4	5	3										21777.0		
1948											12	12	4	15	19	50	32	38	29	32	35	28	16	10	6	11	4	4	4	1	2	2				36607.0	
1949											1	41	16	48	30	17	25	23	33	25	17	28	20	12	12	5	4	3	1						1	28512.0	
1950											1	6	32	38	56	63	47	40	32	16	7	8	9	2	2		1								18302.0		
1951																																				23875.4	
1952											2	22	39	28	31	27	26	27	25	50	25	18	17	9	4	3	4	3	2		1	1				37622.8	
1953											4	1	1	8	18	17	22	36	25	42	36	30	40	24	11	11	12	9	7	3	4	1	2	1		1	30803.0
1954																																				18757.0	
1955											1	22	36	32	24	22	33	54	49	34	20	10	5	9	4	3	2		1	1						20514.0	
1956											3	12	11	10	11	64	39	32	24	49	43	22	12	5	9	6	1	5	1	3							24257.0
1957																																				21036.0	
1958																																				33016.0	
1959																																				23577.0	
1960																																				28246.0	
1961																																				34551.0	
1962																																				25357.0	
1963																																				70742.0	
1964																																				22257.0	
1965																																				19373.0	
1966																																				14783.0	
1967																																				27689.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	13149	100.0	9	44.00	1050	8079	61.4	18	160.0	213	802	6.1	27	600	13	35	.2
1	13.60	39	13149	100.0	10	50.00	1289	7029	53.5	19	190.0	159	589	4.5	28	690	6	22	.1
2	16.00	74	13110	99.7	11	58.00	1201	5740	43.7	20	270.0	102	430	3.3	29	800	6	16	.1
3	19.00	368	13036	99.1	12	67.00	1102	4539	34.5	21	250.0	85	328	2.5	30	920	5	10	.0
4	21.00	526	12668	96.3	13	78.00	834	3437	26.1	22	290.0	65	243	1.8	31	1100	1	5	.0
5	24.00	804	12142	92.3	14	90.00	509	2603	19.8	23	330.0	63	178	1.4	32	1200	1	4	.0
6	28.00	1003	11338	86.2	15	100.00	665	2094	15.9	24	390.0	31	115	0.9	33	1400	3	3	.0
7	33.00	1121	10335	78.6	16	120.00	393	1429	10.9	25	450.0	33	84	0.6	34	1700			
8	38.00	1135	9214	70.1	17	140.00	234	1036	7.9	26	520.0	16	51	0.4					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MANASQUAN RIVER AT SQUANKUM, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1932	13.6 1	13.6 1	13.9 1	15.2 1	15.7 1	16.2 1	18.1 1	20.5 1	28.3 3	57.5 6
1933	17.2 8	18.3 9	20.3 16	20.5 13	22.7 14	28.4 17	37.7 24	48.2 29	52.5 25	66.4 17
1934	16.4 4	16.7 4	17.0 4	18.3 4	20.1 5	20.9 3	26.1 10	33.6 13	42.0 15	62.1 10
1935	18.8 13	19.3 15	19.7 13	21.8 15	25.3 18	28.8 18	32.6 16	35.1 16	39.9 13	77.3 25
1936	17.0 5	17.5 6	17.9 5	18.3 5	20.4 10	22.3 7	23.9 7	26.8 7	44.0 20	75.2 22
1937	21.0 19	21.3 18	22.1 18	23.9 18	26.7 19	31.3 21	39.5 26	46.8 28	58.1 28	76.2 24
1938	33.0 34	34.0 34	34.9 33	36.4 33	40.6 32	52.1 34	75.3 35	85.8 35	103.0 35	117.0 35
1939	18.8 14	19.2 14	19.6 12	21.8 16	22.9 15	27.1 16	33.8 20	33.8 14	36.2 8	58.6 7
1940	22.0 20	23.0 21	24.7 24	25.7 24	29.8 26	38.2 28	43.2 29	42.3 26	50.3 23	75.7 23
1941	18.4 12	18.9 12	19.1 10	19.4 9	20.2 6	21.6 5	24.3 8	25.8 5	30.9 5	51.1 3
1942	25.0 26	25.3 27	26.3 26	28.1 27	31.9 27	38.6 29	41.8 28	44.4 27	46.5 21	68.1 19
1943	17.7 7	18.2 8	18.9 7	19.1 7	19.4 4	20.9 4	23.0 5	27.2 8	35.4 6	66.5 18
1944	17.7 10	18.4 10	19.1 11	19.9 10	20.2 7	25.2 13	29.3 14	36.4 17	52.9 27	84.5 29
1945	29.0 30	30.3 30	32.4 30	39.5 35	42.3 33	51.3 33	54.9 33	62.1 33	69.3 33	88.3 31
1946	33.0 31	31.3 31	32.4 31	33.0 29	35.2 29	35.7 26	39.8 27	41.3 24	52.8 26	69.1 20
1947	25.0 27	25.0 25	26.1 25	26.8 25	27.4 21	29.5 19	33.5 18	40.4 22	51.7 24	78.6 27
1948	34.0 35	34.3 35	35.0 34	36.2 32	37.3 30	41.4 30	45.1 30	53.1 30	67.1 32	102.0 34
1949	23.0 23	23.7 24	24.0 23	25.4 22	28.1 24	33.6 25	33.8 19	36.9 18	37.0 9	54.0 4
1950	20.0 17	20.7 17	21.4 17	24.2 20	28.0 23	33.0 24	36.4 23	41.7 25	43.2 16	65.0 15
1951	19.4 16	19.4 16	19.9 14	21.1 14	21.6 12	23.9 11	25.6 9	29.2 9	39.2 10	78.5 26
1952	30.0 32	31.3 32	36.1 35	36.8 34	38.1 31	42.3 31	51.8 31	63.9 34	64.7 31	97.6 33
1953	23.0 24	23.0 22	23.4 21	24.1 19	24.5 17	25.9 14	31.3 15	33.2 12	40.7 14	62.6 12
1954	17.0 6	17.7 7	19.0 8	19.1 8	20.4 8	23.7 10	26.4 11	33.1 11	39.3 12	55.7 5
1955	15.0 2	15.0 2	16.0 2	16.6 2	19.3 3	24.5 12	27.6 12	35.1 15	46.9 22	62.2 11
1956	26.0 28	26.0 28	26.7 28	27.6 26	29.6 25	32.0 23	35.2 21	38.6 20	43.7 19	64.8 14
1957	17.0 7	17.3 5	18.0 6	18.9 6	20.4 9	22.3 8	22.9 4	23.5 3	26.5 2	70.7 21
1958	25.0 25	25.3 26	26.4 27	28.2 28	32.3 28	38.0 27	38.9 25	40.4 23	58.8 29	78.8 28
1959	22.0 21	23.0 23	23.3 20	24.9 21	26.6 20	29.5 20	33.2 17	37.7 19	43.6 17	64.7 13
1960	27.0 29	27.7 29	29.3 29	34.3 30	46.3 35	52.2 35	56.3 34	58.4 32	71.7 34	91.1 32
1961	32.0 33	33.0 33	34.1 32	36.2 31	42.7 34	48.1 32	54.9 32	56.0 31	60.3 30	85.7 30
1962	22.0 22	22.7 20	23.9 22	25.7 23	27.5 22	31.5 22	35.9 22	38.8 21	43.7 18	66.4 16
1963	18.0 11	18.7 11	19.1 9	20.3 12	21.6 13	22.5 9	23.4 6	23.6 4	29.1 4	50.4 2
1964	21.0 18	22.0 19	22.4 19	23.2 17	23.6 16	25.9 15	29.1 13	29.8 10	35.4 7	60.0 8
1965	19.0 15	19.0 13	19.9 15	19.9 11	20.5 11	21.7 6	22.4 3	22.7 2	24.7 1	41.3 1
1966	16.0 3	16.0 3	16.4 3	17.1 3	18.7 2	19.1 2	19.9 2	26.1 6	39.2 11	60.0 9
MEAN	21.914	22.460	23.391	24.786	27.068	30.834	35.054	39.220	47.103	70.963
VARIANCE	29.555	31.634	36.344	44.210	63.103	95.673	151.837	190.368	241.677	246.676
STD DEV	5.436	5.624	6.029	6.649	7.944	9.781	12.322	13.797	15.546	15.706
SKEWNESS	.729	.717	.758	.777	.903	.854	1.267	1.354	1.454	.857
SE OF SKEW	.398	.398	.398	.398	.398	.398	.398	.398	.398	.398
SER CORR	.194	.183	.139	.178	.158	.068	.070	.016	.062	.108
C OF VAR	.248	.250	.258	.268	.293	.317	.352	.352	.330	.221

LOGS

MEAN OF	1.328	1.339	1.356	1.380	1.416	1.469	1.521	1.570	1.653	1.841
VAR OF	.011	.011	.012	.012	.014	.017	.020	.020	.018	.009
STD DEV OF	.104	.105	.108	.111	.120	.132	.142	.141	.133	.093
SKEW OF	.346	.305	.344	.389	.471	.317	.383	.376	.320	.161
SE OF SKEW OF	.398	.398	.398	.398	.398	.398	.398	.398	.398	.398
SER CORR OF	.222	.207	.158	.197	.148	.065	.067	.028	.073	.153
C OF VAR OF	.078	.078	.079	.081	.085	.090	.093	.090	.081	.051

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	12.991	13.125	13.583	14.217	15.069	15.625	17.053	19.089	23.696	43.153
20.00	14.740	14.981	15.488	16.207	17.191	18.413	20.163	22.582	27.959	49.198
10.00	15.843	16.145	16.692	17.479	18.576	20.209	22.205	24.873	30.712	52.870
5.00	17.369	17.749	18.363	19.259	20.548	22.743	25.129	28.149	34.599	57.800
2.00	21.010	21.552	22.369	23.589	25.487	28.989	32.536	36.431	44.209	68.970
1.25	25.915	26.628	27.803	29.582	32.598	37.797	43.389	48.529	57.810	82.972
1.11	29.152	29.953	31.407	33.622	37.547	43.824	51.051	57.049	67.143	91.691
1.04	33.256	34.144	35.997	38.832	44.091	51.682	61.292	68.415	79.341	102.259
1.02	36.334	37.272	39.452	42.798	49.185	57.722	69.338	77.329	88.736	109.878
1.01	39.438	40.413	42.946	46.844	54.473	63.928	77.751	86.636	98.403	117.326

1-4080.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MANASQUAN RIVER AT SQUANKUM, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1932	436.0 31	272.0 31	180.0 31	132.0 30	117.0 28	93.0 31	77.9 32	74.1 32	63.0 34	42.6 35
1933	492.0 27	330.0 27	208.0 28	163.0 22	144.0 17	117.0 20	104.0 20	95.6 22	90.7 18	73.0 16
1934	660.0 16	389.0 16	233.0 21	160.0 23	126.0 26	104.0 26	96.5 26	86.3 27	77.4 29	59.4 27
1935	482.0 28	379.0 19	249.0 17	176.0 18	140.0 18	120.0 18	104.0 21	92.3 25	79.4 27	59.9 25
1936	735.0 10	403.0 14	315.0 9	224.0 8	174.0 8	149.0 8	139.0 8	126.0 9	113.0 9	76.4 14
1937	608.0 20	346.0 22	238.0 19	185.0 16	153.0 14	146.0 9	131.0 9	121.0 10	110.0 10	81.8 10
1938	1650.0 2	1090.0 1	611.0 1	347.0 1	252.0 1	182.0 3	175.0 2	148.0 2	118.0 7	104.0 3
1939	592.0 21	385.0 17	340.0 5	259.0 3	195.0 3	174.0 4	167.0 3	145.0 3	126.0 3	87.2 8
1940	635.0 18	352.0 21	210.0 24	174.0 19	147.0 15	118.0 19	115.0 16	115.0 13	92.4 16	66.3 18
1941	758.0 11	369.0 20	209.0 27	153.0 26	128.0 22	114.0 21	101.0 24	92.8 23	83.1 24	63.9 22
1942	322.0 35	211.0 35	131.0 36	118.0 34	111.0 31	96.1 30	87.2 29	77.7 31	67.9 32	52.4 32
1943	656.0 17	385.0 18	235.0 20	154.0 25	110.0 32	106.0 24	104.0 22	101.0 19	88.4 20	62.5 23
1944	1690.0 1	795.0 2	420.0 2	263.0 2	169.0 10	135.0 13	117.0 15	112.0 15	105.0 12	81.4 11
1945	1030.0 4	546.0 6	326.0 7	235.0 5	180.0 5	133.0 14	119.0 13	120.0 12	106.0 11	87.9 7
1946	988.0 6	563.0 5	356.0 4	231.0 6	164.0 12	155.0 7	131.0 10	121.0 11	103.0 13	88.9 6
1947	278.0 36	193.0 36	169.0 34	122.0 33	105.0 34	90.0 32	87.1 30	80.8 29	78.2 28	59.7 26
1948	551.0 24	332.0 25	266.0 15	207.0 11	164.0 13	143.0 12	129.0 11	137.0 8	123.0 6	100.0 3
1949	739.0 12	452.0 11	266.0 16	199.0 14	166.0 11	156.0 6	148.0 5	136.0 5	116.0 8	78.1 12
1950	336.0 34	240.0 34	155.0 35	106.0 36	85.9 35	83.1 33	74.1 34	69.7 34	60.4 35	50.1 34
1951	590.0 22	335.0 24	226.0 22	157.0 24	127.0 25	123.0 16	112.0 17	102.0 18	94.5 15	65.4 20
1952	855.0 9	474.0 10	286.0 13	205.0 12	170.0 9	145.0 10	145.0 6	136.0 6	134.0 2	103.0 7
1953	713.0 13	422.0 12	312.0 10	231.0 7	179.0 6	158.0 5	142.0 7	136.0 7	125.0 4	84.4 9
1954	515.0 25	320.0 28	172.0 33	108.0 35	79.0 36	69.1 36	68.4 35	67.5 35	64.3 33	51.4 33
1955	1030.0 5	611.0 4	320.0 8	184.0 17	112.0 30	81.8 34	74.4 33	74.0 33	68.8 31	56.2 30
1956	473.0 29	337.0 23	217.0 24	151.0 27	145.0 16	128.0 15	119.0 12	106.0 16	86.1 21	66.3 19
1957	357.0 33	255.0 33	192.0 29	140.0 28	128.0 23	112.0 22	101.0 23	92.8 24	85.2 23	57.6 28
1958	879.0 7	511.0 8	327.0 6	245.0 4	212.0 2	184.0 2	178.0 1	167.0 1	141.0 1	90.5 5
1959	855.0 8	497.0 9	298.0 12	189.0 15	127.0 24	97.5 29	83.6 31	79.5 30	80.0 26	64.5 21
1960	1170.0 3	714.0 3	366.0 3	211.0 9	133.0 20	120.0 17	110.0 18	105.0 17	91.3 17	77.2 13
1961	708.0 14	404.0 13	284.0 14	205.0 13	193.0 4	185.0 1	161.0 4	143.0 4	124.0 5	94.7 4
1962	681.0 15	521.0 7	301.0 11	208.0 10	175.0 7	143.0 11	117.0 14	113.0 14	95.2 14	69.5 17
1963	375.0 32	317.0 29	221.0 23	167.0 21	129.0 21	105.0 25	91.6 28	87.6 26	80.3 25	56.8 29
1964	568.0 23	267.0 32	173.0 32	131.0 31	125.0 27	101.0 28	96.8 25	97.6 21	85.4 22	60.8 24
1965	470.0 30	278.0 30	190.0 30	127.0 32	114.0 29	102.0 27	92.2 27	85.1 28	75.0 30	53.1 31
1966	507.0 26	330.0 26	212.0 25	133.0 29	108.0 33	74.4 35	65.8 36	63.4 36	52.5 36	40.5 36
1967	624.0 19	401.0 15	244.0 18	168.0 20	140.0 19	112.0 23	109.0 19	99.5 20	88.6 19	75.9 15
MEAN	696.055	417.250	262.722	182.444	145.192	123.750	113.156	105.481	93.669	70.647
VARIANCE	102713.625	30755.000	8058.352	2640.527	1307.584	969.805	877.181	686.695	498.948	281.910
STD DEV	320.490	175.371	89.768	51.386	36.161	31.142	29.617	26.205	22.337	16.790
SKENESS	1.605	1.987	1.739	.914	.704	.353	.529	.352	.304	.314
SE OF SKEN	.393	.393	.393	.393	.393	.393	.393	.393	.393	.393
SER CORR	.084	.041	.170	.251	.187	.160	.154	.127	.176	.219
C OF VAR	.460	.420	.342	.282	.249	.252	.262	.248	.238	.238

LOGS

MEAN OF	2.804	2.591	2.398	2.245	2.149	2.079	2.039	2.010	1.959	1.837
VAR OF	.033	.025	.018	.014	.012	.012	.013	.012	.011	.011
STD DEV OF	.181	.157	.134	.119	.107	.111	.113	.109	.105	.105
SKEN OF	.312	.616	.430	.134	-.048	-.148	-.005	-.100	-.168	-.145
SE OF STEW OF	.393	.393	.393	.393	.393	.393	.393	.393	.393	.393
SER CORR OF	.061	.085	.188	.219	.162	.155	.142	.127	.175	.211
C OF VAR OF	.065	.061	.056	.053	.050	.053	.056	.054	.054	.057

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	266.259	197.916	134.436	95.608	78.670	64.426	59.610	56.003	50.304	38.228
1.05	333.953	230.140	156.605	113.336	93.594	77.997	71.253	67.219	60.448	45.775
1.11	379.692	252.380	171.163	124.371	102.596	86.150	78.357	73.970	66.490	50.274
1.25	446.770	285.518	192.001	139.473	114.581	96.952	87.906	82.935	74.435	56.200
2.00	623.864	375.383	244.745	174.797	141.243	120.700	109.509	102.755	91.692	69.107
5.00	898.273	520.158	321.928	220.959	173.623	148.937	136.379	126.566	111.869	84.283
10.00	1100.536	630.592	376.370	250.627	193.189	165.656	152.935	140.803	123.659	93.195
25.00	1379.940	787.803	449.110	287.429	216.308	185.074	172.795	157.479	137.217	103.489
50.00	1605.726	918.497	506.253	314.490	232.588	198.530	186.965	169.126	146.532	110.589
100.00	1846.932	1061.481	566.000	341.341	248.200	211.269	200.693	180.222	155.292	117.289

STATISTICS OF LOGS OF MONTHLY MEANS. 1932-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	48.21	24.08	1.246	.4994	5.675	.304	1.638	.1963	.4909	.1199	7.623	.400
NOV	67.82	30.48	.1183	.4495	7.984	.244	1.787	.2036	-.2346	.1139	8.318	.393
DEC	71.99	28.35	.7543	.3939	8.475	.430	1.824	.1771	-.3336	.0971	8.489	.538
JAN	84.59	32.85	.4641	.3884	9.958	.548	1.894	.1751	-.2019	.0925	8.817	.617
FEB	97.29	29.61	.2578	.3043	11.45	.426	1.967	.1420	-.5875	.0722	9.156	.374
MAR	110.4	30.49	.6608	.2762	13.00	.405	2.027	.1178	.1056	.0581	9.438	.359
APR	93.99	30.09	.2929	.3202	11.07	.731	1.950	.1457	-.3275	.0747	9.078	.704
MAY	74.62	29.63	1.374	.3970	8.785	.511	1.844	.1549	.5924	.0840	8.585	.485
JUN	50.89	24.56	1.841	.4827	5.991	.567	1.670	.1701	1.111	.1019	7.783	.590
JUL	50.16	36.83	2.460	.7343	5.905	.545	1.622	.2482	.8040	.1530	7.550	.561
AUG	48.24	27.03	.9377	.5603	5.679	.438	1.621	.2343	.2528	.1445	7.546	.497
SEP	51.22	34.25	2.180	.6686	6.030	.314	1.639	.2413	.5317	.1473	7.627	.375

Location.--Lat 39°59'10", long 74°13'29", 2.6 miles northwest of Toms River, N.J.

Drainage area.--124 sq mi.

Remarks.--Diversion since July 1966 significant at low flow only.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1929	6 17 13 27 4 11 58 68 13 37 24 15 17 17 14 2 9 3 3 2 3 1 1																																		72238.0
1930	8 28 12 4 21 9 19 59 24 43 53 25 21 17 8 9 3 1 1																																		63364.0
1931	16 15 18 10 51 26 25 60 31 36 25 17 17 4 3 10 1																																		56235.0
1932	6 24 27 25 17 56 30 18 35 16 26 28 11 10 10 4 7 5 2 2 2 1 2 2																																		57001.0
1933	4 1 11 11 5 28 10 16 26 22 36 48 29 29 18 22 20 8 9 5 2 1 2 1 1																																		76742.0
1934	6 10 10 8 39 46 42 49 7 31 15 22 28 14 20 7 4 3 1 3																																		63599.0
1935	3 17 16 7 44 32 12 28 18 48 36 28 26 11 14 10 4 2 2 3 2 1 1																																		67093.0
1936	1 15 22 10 33 13 16 33 3 13 35 27 23 11 34 26 21 9 10 2 2 5 2																																		81517.0
1937	17 23 23 29 12 28 23 30 32 25 55 32 16 10 3 5 2																																		86408.0
1938	4 1 33 21 49 32 64 38 19 31 18 13 7 5 12 1 3 2 1 1 2 2 4 1 1																																		98851.0
1939	3 3 35 11 17 9 6 15 51 41 20 39 25 24 11 12 16 7 5 1 1 2																																		97850.0
1940	1 8 40 40 30 43 13 26 26 27 35 12 16 16 10 10 5 3 2 2 1																																		74583.0
1941	3 19 4 14 9 20 17 17 27 21 52 36 34 39 16 11 19 4 2 1																																		67911.0
1942	7 35 21 20 61 22 19 45 14 17 16 25 20 15 18 9 1																																		57356.0
1943	22 22 8 8 7 24 12 12 22 57 45 27 33 10 12 15 3 2 1 1																																		65076.0
1944	6 13 15 20 14 5 13 13 11 37 17 22 35 29 27 15 22 19 6 4 8 3 6 2 2 1 1																																		75529.0
1945	7 21 23 39 11 29 39 23 48 25 29 29 9 7 7 7 4 3 4 1																																		88518.0
1946	1 21 20 17 35 20 30 40 30 61 24 16 18 8 7 3 3 3 3 2 2 1																																		83007.0
1947	1 10 12 37 36 29 30 20 57 33 35 35 8 5 5 2 4 4 2																																		65512.0
1948	10 13 3 7 5 8 25 17 34 26 26 43 77 32 30 18 14 16 9 6 1 1																																		92496.0
1949	2 9 13 5 31 30 16 26 14 33 13 20 31 15 21 17 27 21 8 7 3 2 1																																		82817.0
1950	3 8 11 11 12 45 21 26 63 37 43 25 20 25 6 4 6 4																																		58480.0
1951	15 17 24 7 31 14 8 28 28 33 34 30 52 13 7 8 3 2 4 3 4																																		67588.0
1952	3 3 2 10 12 31 11 26 21 19 33 20 37 41 20 17 13 9 6 5 4 2 1 1																																		102935.0
1953	6 13 38 28 15 15 6 12 16 27 25 21 31 42 17 15 21 10 2 1 2																																		92476.0
1954	9 21 25 35 5 5 34 31 48 24 34 31 18 12 8 3 10 7 1 2 2																																		70672.0
1955	6 11 19 10 7 41 27 29 30 13 38 45 21 31 4 18 6 4 1 1 1 1																																		63386.0
1956	4 62 27 26 37 22 27 22 18 32 17 25 15 11 6 4 5 6																																		75085.0
1957	4 10 25 24 17 7 25 15 7 14 11 37 28 35 41 15 22 14 3 5 4 2																																		67241.0
1958	2 4 7 6 2 5 6 14 28 14 24 20 22 36 20 22 23 21 18 18 14 12 8 11 5 1 1 1																																		107847.0
1959	7 7 24 15 10 20 9 35 39 35 52 20 28 28 13 10 1 3 2 3 1 1 1 1																																		85153.0
1960	3 9 15 29 12 8 20 21 41 34 22 41 28 31 22 8 7 7 1 3 2 1 1																																		81768.0
1961	14 7 10 42 18 27 29 32 38 13 21 33 13 19 17 15 9 2 2 1 2 1																																		98247.0
1962	6 6 18 27 33 33 23 36 29 37 27 12 22 16 11 13 8 3 1 1 1 1																																		79063.0
1963	2 7 26 20 16 17 9 10 44 15 49 32 32 29 17 11 13 8 2 4 2																																		76720.0
1964	3 12 18 14 28 9 29 33 20 18 20 31 25 22 15 22 11 8 6 2 4 2 1																																		66044.0
1965	19 32 20 6 49 21 19 15 4 27 22 22 43 15 22 14 9 2 2 2																																		65334.0
1966	13 15 15 9 14 49 34 10 48 25 18 35 8 14 8 6 18 8 5 3 4 1 3 1 1 1																																		48741.0
1967	11 19 17 37 25 43 54 31 50 12 17 20 7 4 7 2 3 2 1 1 2																																		81782.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	14244	100.0	9	100.00	1143	12676	89.0	18	260.0	602	3336	23.4	27	630	42	100	1.0
1	47.23	13	14244	100.0	10	120.00	745	11533	81.0	19	280.0	786	2734	19.2	28	700	18	58	0.5
2	52.00	15	14231	99.9	11	130.00	663	10788	75.7	20	310.0	678	1945	17.7	29	770	17	40	0.4
3	57.00	28	14216	99.8	12	140.00	1300	10155	72.1	21	340.0	888	1270	8.9	30	850	9	23	0.3
4	63.00	92	14188	99.6	13	160.00	701	9425	62.0	22	380.0	279	922	6.5	31	940	3	14	0.1
5	70.00	248	14096	99.0	14	170.00	1269	8124	57.0	23	420.0	217	643	4.5	32	1000	7	11	0.1
6	77.00	430	13848	97.2	15	190.00	1169	6855	48.1	24	470.0	158	426	3.0	33	1100	3	4	0.0
7	86.00	447	13418	94.2	16	210.00	1072	5686	39.9	25	520.0	101	268	1.9	34	1300	1	1	0.0
8	95.00	295	12971	91.1	17	230.00	1278	4616	32.4	26	570.0	67	167	1.2					

1-4085.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

TOMS RIVER NEAR TOMS RIVER, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1929	84.0 24	84.0 24	88.3 25	88.6 21	99.0 23	105.0 20	118.0 19	129.0 18	148.0 17	196.0 18
1930	70.0 12	71.0 11	72.6 11	72.9 9	76.7 8	85.0 8	91.1 7	100.0 7	111.0 4	142.0 2
1931	75.0 17	75.7 16	78.4 16	80.6 14	86.9 13	98.0 14	101.0 10	104.0 8	120.0 6	162.0 5
1932	63.0 5	65.3 6	68.7 7	71.8 8	73.4 7	78.8 4	85.0 4	94.4 4	123.0 7	185.0 12
1933	77.0 20	78.0 20	85.6 22	88.9 22	95.3 19	108.0 22	130.0 23	157.0 27	160.0 24	189.0 14
1934	74.0 14	75.7 17	78.1 15	79.9 13	87.1 15	95.7 13	119.0 20	131.0 21	136.0 13	186.0 13
1935	75.0 18	75.3 14	79.9 18	82.4 15	86.9 14	99.0 15	117.0 17	130.0 19	150.0 18	218.0 24
1936	76.0 19	76.7 14	79.0 17	85.8 18	98.1 22	104.0 19	112.0 15	126.0 15	152.0 19	220.0 27
1937	100.0 32	107.0 33	111.0 33	120.0 34	130.0 34	154.0 36	172.0 36	175.0 35	207.0 36	234.0 32
1938	140.0 38	143.0 38	147.0 38	149.0 37	163.0 37	193.0 37	216.0 37	255.0 38	273.0 38	300.0 38
1939	94.0 28	95.0 28	97.6 29	105.0 28	111.0 26	129.0 27	141.0 27	150.0 26	158.0 22	204.0 19
1940	94.0 29	95.0 29	96.6 28	106.0 29	116.0 27	133.0 29	143.0 28	144.0 25	164.0 26	216.0 25
1941	69.0 10	69.3 9	70.1 8	70.2 7	72.9 6	79.2 6	86.6 6	93.9 3	110.0 3	160.0 3
1942	74.0 15	77.0 19	82.3 19	87.9 20	100.0 24	123.0 25	130.0 24	128.0 17	139.0 15	183.0 10
1943	64.0 6	65.3 7	67.0 6	68.5 4	69.7 3	73.9 2	85.2 5	108.0 9	131.0 10	183.0 11
1944	58.0 2	61.3 4	64.1 4	66.6 2	69.4 2	93.6 10	103.0 11	122.0 14	152.0 20	230.0 30
1945	108.0 34	109.0 34	112.0 34	125.0 36	133.0 35	142.0 33	144.0 29	162.0 30	183.0 32	231.0 31
1946	99.0 31	101.0 31	103.0 30	111.0 31	127.0 32	129.0 26	139.0 25	140.0 23	162.0 25	193.0 16
1947	93.0 23	83.0 23	83.4 20	84.6 17	90.2 16	94.4 11	106.0 12	118.0 13	159.0 23	209.0 20
1948	115.0 36	116.0 36	118.0 36	123.0 35	124.0 31	138.0 32	147.0 31	166.0 32	188.0 34	271.0 35
1949	74.0 16	75.3 15	77.0 14	82.7 16	103.0 25	113.0 23	120.0 21	127.0 16	133.0 11	176.0 6
1950	67.0 8	68.0 3	70.7 9	66.1 19	92.7 17	107.0 21	108.0 14	111.0 10	127.0 8	176.0 7
1951	70.0 11	71.3 12	72.6 10	73.7 10	77.9 11	95.4 12	100.0 9	111.0 11	138.0 14	224.0 28
1952	109.0 35	110.0 35	114.0 35	118.0 33	121.0 29	137.0 30	167.0 35	191.0 36	209.0 35	275.0 36
1953	85.0 25	85.3 25	87.7 23	92.6 24	96.7 20	99.1 16	125.0 22	135.0 22	166.0 27	217.0 23
1954	79.0 22	81.7 22	87.7 24	90.5 23	93.6 18	101.0 17	115.0 16	143.0 24	152.0 21	195.0 17
1955	64.0 7	64.0 5	66.4 5	70.0 6	77.6 9	103.0 18	118.0 18	130.0 20	146.0 16	180.0 8
1956	97.0 30	98.0 30	104.0 31	107.0 30	121.0 30	137.0 31	149.0 32	163.0 31	176.0 28	216.0 22
1957	58.0 3	59.3 2	62.6 2	64.6 5	72.1 5	76.8 3	81.3 3	85.9 2	102.0 2	211.0 21
1958	138.0 37	140.0 37	146.0 37	157.0 38	194.0 38	215.0 38	220.0 38	233.0 37	248.0 37	285.0 37
1959	90.0 27	92.0 27	92.7 27	94.1 25	97.8 21	116.0 24	139.0 26	156.0 29	182.0 31	274.0 29
1960	78.0 21	79.3 21	85.1 21	103.0 27	116.0 28	130.0 28	146.0 30	153.0 28	186.0 33	238.0 33
1961	106.0 33	106.0 32	111.0 32	117.0 32	140.0 36	153.0 35	166.0 34	172.0 34	178.0 29	250.0 34
1962	87.0 26	88.0 26	92.6 26	101.0 26	128.0 33	147.0 34	159.0 33	167.0 33	178.0 30	219.0 26
1963	63.0 9	71.0 10	74.9 13	79.6 12	86.3 12	87.8 9	92.6 8	95.7 5	112.0 5	162.0 4
1964	60.0 4	61.0 3	63.9 3	67.1 3	70.4 4	82.9 7	106.0 13	112.0 12	127.0 9	191.0 15
1965	72.0 13	72.7 13	74.7 12	77.1 11	77.7 10	78.0 5	79.9 2	81.6 1	88.4 1	136.0 1
1966	47.0 1	47.0 1	48.4 1	50.0 1	57.7 1	60.4 1	73.9 1	98.9 8	135.0 12	183.0 9

MEAN	82.632	84.039	87.255	92.179	100.739	112.974	125.042	136.695	155.274	207.158
VARIANCE	431.210	444.358	469.919	539.473	814.455	1058.741	1178.388	1398.499	1407.612	1386.729
STD DEV	20.766	21.080	21.678	23.227	28.539	32.538	34.328	37.396	37.518	37.239
SKEWNESS	1.047	1.064	1.044	.915	1.128	1.121	.930	1.183	1.032	.513
SE OF SKEW	.383	.383	.383	.383	.383	.383	.383	.383	.383	.383
SER CORR	.110	.124	.084	.111	.103	.129	.163	.149	.233	.316
C OF VAR	.251	.251	.248	.252	.283	.288	.275	.274	.242	.180

LOGS

MEAN OF	1.905	1.912	1.929	1.952	1.988	2.037	2.082	2.121	2.179	2.310
VAR OF	.011	.011	.011	.011	.014	.014	.013	.013	.010	.006
STD DEV OF	.103	.103	.103	.105	.117	.118	.115	.112	.101	.078
SKEW OF	.375	.376	.340	.245	.294	.306	.230	.367	.188	-.007
SE OF SKEW OF	.383	.383	.383	.383	.383	.383	.383	.383	.383	.383
SER CORR OF	.124	.131	.093	.126	.142	.156	.170	.163	.235	.345
C OF VAR OF	.054	.054	.053	.054	.059	.058	.055	.053	.046	.034

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	49.302	50.227	51.993	53.243	55.158	61.394	68.334	77.882	90.899	134.490
20.00	55.759	56.781	58.948	61.170	63.963	71.256	79.636	89.045	104.454	151.985
10.00	59.846	60.928	63.322	66.100	69.540	77.524	86.720	96.157	112.785	162.210
5.00	65.520	66.685	69.363	72.848	77.288	86.258	96.478	106.087	124.077	175.505
2.00	79.131	80.493	83.732	88.655	95.910	107.352	119.579	130.150	150.081	204.004
1.25	97.605	99.226	103.009	109.410	121.255	136.259	150.347	163.276	183.413	237.064
1.11	109.865	111.657	115.686	122.825	138.110	155.592	170.452	185.517	204.539	256.395
1.04	125.481	127.485	131.716	139.555	159.606	180.355	195.735	214.099	230.492	278.727
1.02	137.242	139.404	143.713	151.926	175.811	199.095	214.561	235.795	249.424	294.163
1.01	149.138	151.458	155.787	164.256	192.212	218.120	233.427	257.875	268.100	308.766

1-4085.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

TOMS RIVER NEAR TOMS RIVER, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1929	803.0 13	700.0 14	561.0 14	454.0 12	380.0 12	332.0 17	319.0 10	296.0 15	258.0 16	198.0 21
1930	429.0 36	393.0 35	330.0 36	287.0 37	281.0 31	247.0 35	231.0 35	219.0 35	207.0 35	174.0 33
1931	362.0 39	353.0 38	322.0 38	271.0 39	228.0 39	217.0 38	209.0 38	201.0 38	186.0 38	154.0 38
1932	663.0 22	618.0 21	491.0 21	373.0 24	352.0 19	290.0 23	259.0 29	233.0 13	213.0 33	156.0 37
1933	787.0 14	715.0 11	567.0 13	429.0 17	328.0 24	293.0 22	273.0 23	262.0 21	246.0 22	210.0 17
1934	586.0 31	453.0 33	375.0 33	312.0 33	273.0 34	264.0 29	262.0 26	240.0 28	218.0 32	174.0 34
1935	771.0 16	643.0 18	479.0 23	352.0 25	307.0 29	282.0 27	266.0 25	249.0 26	226.0 30	184.0 27
1936	632.0 21	620.0 20	530.0 16	445.0 14	372.0 13	343.0 17	334.0 9	320.0 9	294.0 10	227.0 14
1937	542.0 29	514.0 29	452.0 26	393.0 21	359.0 16	337.0 15	317.0 11	306.0 11	296.0 8	237.0 9
1938	1500.0 1	1230.0 1	870.0 1	615.0 2	487.0 3	405.0 6	366.0 7	337.0 7	289.0 11	271.0 3
1939	835.0 12	720.0 10	607.0 9	530.0 5	454.0 4	434.0 3	424.0 3	387.0 3	343.0 4	268.0 5
1940	644.0 23	580.0 25	468.0 25	415.0 19	354.0 17	342.0 13	315.0 13	302.0 13	257.0 17	204.0 20
1941	433.0 35	373.0 36	329.0 37	291.0 35	276.0 33	258.0 32	253.0 31	240.0 29	226.0 31	186.0 23
1942	371.0 38	329.0 39	298.0 39	289.0 36	281.0 32	255.0 33	236.0 34	220.0 34	192.0 37	157.0 36
1943	472.0 34	440.0 34	371.0 34	293.0 34	257.0 36	251.0 34	249.0 32	239.0 31	228.0 28	178.0 31
1944	1030.0 5	864.0 5	589.0 5	417.0 18	342.0 22	322.0 18	290.0 18	272.0 19	248.0 20	206.0 18
1945	712.0 19	652.0 17	581.0 12	500.0 8	449.0 5	362.0 9	317.0 12	316.0 10	295.0 9	243.0 8
1946	839.0 11	686.0 15	612.0 8	476.0 9	372.0 14	347.0 11	313.0 15	294.0 16	267.0 13	227.0 11
1947	479.0 33	464.0 31	422.0 30	338.0 27	319.0 27	260.0 31	246.0 33	234.0 32	226.0 29	179.0 30
1948	699.0 20	582.0 22	518.0 17	466.0 11	426.0 8	362.0 10	338.0 8	331.0 8	310.0 7	253.0 6
1949	763.0 17	656.0 16	516.0 18	442.0 15	406.0 9	386.0 7	374.0 6	356.0 6	314.0 6	227.0 12
1950	391.0 37	372.0 37	335.0 35	282.0 38	247.0 38	233.0 36	219.0 37	218.0 36	197.0 36	161.0 35
1951	566.0 27	558.0 27	510.0 19	394.0 20	320.0 26	296.0 21	274.0 22	260.0 22	243.0 23	185.0 24
1952	1100.0 3	980.0 2	716.0 3	509.0 6	447.0 7	411.0 5	398.0 4	374.0 4	364.0 2	281.0 2
1953	846.0 10	776.0 8	656.0 5	539.0 4	449.0 6	429.0 4	394.0 5	367.0 5	341.0 5	253.0 7
1954	639.0 24	581.0 23	441.0 28	351.0 26	345.0 20	283.0 26	261.0 27	240.0 30	232.0 27	194.0 22
1955	857.0 9	712.0 12	502.0 20	316.0 31	253.0 37	230.0 37	223.0 36	218.0 37	212.0 34	174.0 32
1956	620.0 26	580.0 24	483.0 22	384.0 23	369.0 15	333.0 16	312.0 17	286.0 17	255.0 18	205.0 19
1957	446.0 32	457.0 32	410.0 32	333.0 28	296.0 30	285.0 25	269.0 24	259.0 24	251.0 19	184.0 25
1958	1070.0 4	945.0 3	731.0 2	617.0 1	540.0 1	501.0 1	484.0 1	451.0 1	397.0 1	295.0 1
1959	913.0 7	830.0 6	657.0 4	508.0 7	389.0 11	372.0 19	348.0 19	274.0 18	267.0 14	233.0 10
1960	1270.0 2	932.0 4	639.0 7	429.0 16	344.0 21	339.0 14	313.0 16	304.0 12	272.0 12	223.0 15
1961	890.0 8	779.0 7	653.0 6	544.0 3	498.0 2	477.0 2	440.0 2	405.0 2	351.0 3	269.0 4
1962	925.0 6	775.0 9	604.0 9	470.0 10	404.0 10	368.0 8	314.0 14	301.0 14	265.0 15	217.0 16
1963	547.0 28	515.0 28	441.0 29	387.0 22	332.0 23	279.0 28	254.0 30	247.0 27	240.0 25	184.0 26
1964	621.0 25	573.0 26	451.0 27	328.0 29	324.0 25	261.0 30	259.0 28	260.0 23	236.0 26	180.0 28
1965	518.0 30	485.0 30	415.0 31	326.0 30	309.0 28	301.0 20	282.0 20	266.0 20	243.0 24	179.0 29
1966	723.0 18	638.0 19	469.0 24	315.0 32	270.0 35	205.0 39	194.0 39	195.0 39	169.0 39	134.0 39
1967	776.0 15	702.0 13	543.0 15	448.0 13	354.0 18	286.0 24	278.0 21	258.0 25	247.0 21	224.0 13
MEAN	719.743	635.256	511.385	406.872	353.667	318.667	298.641	283.000	259.513	207.282
VARIANCE	62729.629	37234.656	16065.844	8793.617	5593.777	4945.891	4291.586	3506.105	2642.138	1532.311
STD DEV	250.459	192.963	126.751	93.774	74.792	70.327	65.510	59.212	51.402	39.145
SKEWNESS	.967	.784	.501	.459	.540	.730	.961	.908	.769	.431
SE OF SKEW	.378	.378	.378	.378	.378	.378	.378	.378	.378	.378
SER CORR	.149	.202	.310	.317	.231	.257	.194	.231	.275	.334
C OF VAR	.348	.304	.248	.230	.211	.221	.219	.209	.198	.189

LOGS

MEAN OF	2.833	2.784	2.696	2.598	2.539	2.493	2.466	2.443	2.406	2.309
VAR OF	.022	.017	.012	.010	.008	.009	.008	.008	.007	.007
STD DEV OF	.147	.131	.108	.099	.091	.093	.091	.087	.083	.081
SKEW OF	.063	-.072	-.136	.090	.097	.247	.440	.465	.281	.063
SE OF SKEW OF	.378	.378	.378	.378	.378	.378	.378	.378	.378	.378
SER CORR OF	.194	.253	.336	.326	.239	.269	.220	.268	.302	.339
C OF VAR OF	.052	.047	.040	.038	.036	.037	.037	.035	.035	.035

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	313.920	296.274	270.734	236.538	216.151	196.746	192.463	186.813	169.657	132.883
1.05	391.814	367.592	325.965	273.891	246.967	222.401	213.148	205.527	188.811	150.195
1.11	441.537	411.810	359.081	296.536	265.484	238.167	226.234	217.382	200.526	160.444
1.25	510.899	471.921	402.893	326.866	290.115	259.536	244.379	233.828	216.344	173.916
2.00	677.977	610.047	499.058	395.252	345.028	308.766	287.757	273.155	252.536	203.352
5.00	904.214	784.601	613.264	480.265	412.292	371.954	346.255	326.159	298.558	238.432
10.00	1053.221	893.097	680.866	532.789	453.392	412.067	384.852	361.101	327.556	259.407
25.00	1241.178	1023.824	759.400	596.028	502.477	461.423	433.775	405.347	363.040	284.055
50.00	1381.244	1117.357	813.845	641.343	537.408	497.488	470.464	438.500	388.845	301.351
100.00	1521.561	1208.103	865.408	685.417	571.208	533.113	507.449	471.896	414.241	317.908

1-4085.00 TOMS RIVER NEAR TOMS RIVER, N. J.

	STATISTICS OF MONTHLY MEANS, 1929-1967						STATISTICS OF LOSS OF MONTHLY MEANS, 1929-1967					
	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	153.7	53.53	1.175	.3483	6.170	.507	2.163	.1417	.3394	.0655	7.895	.548
NOV	194.8	57.11	.2968	.2932	7.821	.392	2.271	.1326	-.3468	.0584	8.286	.403
DEC	206.0	63.94	.7093	.3104	8.272	.394	2.294	.1353	-.1331	.0590	8.371	.500
JAN	234.6	65.82	.5008	.2805	9.420	.581	2.354	.1233	-.1648	.0524	8.589	.665
FEB	250.3	60.36	.8377	.2412	10.05	.507	2.386	.1037	-.1082	.0435	8.709	.475
MAR	292.4	76.98	1.285	.2633	11.74	.543	2.453	.1055	.6051	.0430	8.952	.536
APR	273.1	72.34	.6295	.2649	10.97	.792	2.422	.1136	.0643	.0469	8.838	.752
MAY	245.4	72.83	1.095	.2967	9.854	.577	2.373	.1204	.4739	.0508	8.660	.521
JUN	180.1	54.49	1.174	.3025	7.233	.648	2.238	.1208	.6041	.0540	8.169	.631
JUL	155.5	68.98	2.184	.4437	6.242	.433	2.160	.1606	.8299	.0744	7.882	.447
AUG	156.4	70.32	.8038	.4496	6.280	.482	2.153	.1914	.1494	.8890	7.857	.520
SEP	148.3	63.12	1.054	.4256	5.954	.385	2.135	.1785	.1413	.0836	7.792	.418

1-4090.00 CEDAR CREEK AT LANOKA HARBOR, N. J.

Location.--Lat 39°52'05", long 74°10'06", 20 ft upstream from bridge on U.S. Highway 9.

Drainage area.--56.0 sq mi.

Remarks.--Occasional regulation by cranberry bogs significant but erratic.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1913						1		2			2	3	9	10	22	38	43	43	56	29	17	31	20	21	5	3	4	4			1	1					39561.0	
1934										1		3	8	10	61	58	72	46	31	28	16	15	11	1	1	1											34998.0	
1935						1	2	2	5		1	3	1	24	30	66	22	39	73	31	10	29	8	9	3	2			3	1							34358.0	
1936						2	2	4	2			3	2	30	17	46	31	38	53	13	26	25	21	33	3	7	5			1							38987.0	
1937									1	2			2	10	16	62	27	41	49	23	28	53	22	20	4	3	1										38795.0	
1938											3	2	1	1	9	16	27	40	64	37	44	33	29	20	10	8	4	3	6	2	3	1			2		48425.0	
1939														3	10	8	30	39	40	35	39	42	48	31	26	7	4					1	1	1			55422.0	
1940								1	1	2	1			4			9	62	67	74	32	17	34	20	26	8	6	1	3								41389.0	
1941																																					36388.0	
1942									2	1		4	1	10	17	33	48	46	76	40	24	29	24	8														30101.3
1943													1	4	4	25	32	63	45	68	40	31	28	11	8	1											35407.7	
1944										1	2	1	1	7	19	15	27	27	39	42	44	23	26	33	25	10	9								2	1		45051.6
1945								4	1					4		4	2	47	46	32	68	15	29	48	31	14	5	8	4		7	2						40937.2
1946																																					39979.5	
1947																																					30533.2	
1948																																						46619.3
1949																																						44019.0
1950																																						28558.2
1951																																						28998.2
1952																																						47432.4
1953																																						47285.0
1954																																						35631.6
1955																																						37399.0
1956																																						33041.0
1957																																						28156.0
1958																																						61551.0

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	9496	100.0	9	35.00	39	9307	98.0	18	110.0	733	666	38.6	27	320	28	67	.7
1	13.00	8	9496	100.0	10	39.00	133	9268	97.6	19	120.0	568	2933	30.9	28	360	19	39	.4
2	15.00	21	9488	99.7	11	45.00	159	9135	95.5	20	130.0	571	2655	24.9	29	410	10	20	.2
3	17.00	33	9467	99.7	12	50.00	380	8970	94.5	21	150.0	562	1594	16.8	30	460	1	10	.1
4	19.00	11	9454	99.6	13	57.00	479	8590	93.5	22	170.0	507	1032	10.9	31	520	2	9	.0
5	21.00	29	9443	99.4	14	64.00	999	8111	85.4	23	200.0	168	525	5.5	32	590	1	7	.0
6	24.00	29	9414	99.1	15	73.00	1024	7112	74.9	24	220.0	164	357	3.8	33	670	5	6	.0
7	27.00	36	9385	98.8	16	82.00	1156	6088	64.1	25	250.0	74	193	2.0	34	760	1	1	.0
8	31.00	42	9349	98.5	17	93.00	1266	4932	51.9	26	280.0	52	119	1.3					

1-4090.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

CEDAR CREEK AT LANOKA HARBOR, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1933	23.0 18	44.7 20	53.7 19	63.3 21	68.5 20	70.2 17	75.8 18	84.7 19	92.9 18	105.0 14
1934	22.0 15	35.0 14	46.6 13	57.6 17	64.4 18	66.2 13	70.2 14	74.6 13	75.2 7	97.7 11
1935	23.0 16	29.7 11	47.3 15	51.6 11	53.3 6	58.8 5	67.8 11	74.6 14	80.6 11	107.0 15
1936	26.0 21	38.0 15	47.1 14	50.9 10	54.9 7	60.4 8	65.9 7	72.8 11	77.3 10	103.0 13
1937	28.0 21	50.0 22	52.7 17	56.2 16	62.5 15	71.6 19	78.3 19	83.6 18	93.2 19	111.0 17
1938	36.0 25	51.3 24	66.7 24	74.2 25	83.9 25	86.3 25	92.4 25	112.0 25	140.0 25	153.0 25
1939	27.0 20	44.0 19	55.6 20	68.2 22	77.7 23	82.8 23	85.2 20	94.5 22	101.0 22	122.0 22
1940	23.0 17	42.7 17	57.7 23	69.8 23	80.0 24	83.8 24	89.7 23	91.7 20	94.6 20	113.0 18
1941	18.7 12	30.6 13	45.4 11	53.1 12	55.0 8	58.8 6	61.6 5	64.9 4	67.2 4	85.2 2
1942	15.0 10	25.9 8	42.0 9	50.8 9	63.5 16	74.6 20	74.1 17	78.7 16	83.1 16	96.4 10
1943	22.0 13	42.7 18	52.9 18	59.8 18	62.3 14	66.0 12	68.0 12	70.9 7	81.7 15	113.0 19
1944	15.3 7	19.2 2	35.5 4	50.1 7	55.5 9	70.0 16	73.9 16	78.2 15	87.0 17	119.0 21
1945	14.1 3	26.5 10	37.5 6	54.3 15	60.8 13	67.3 14	70.2 13	74.5 12	81.3 14	108.0 16
1946	15.3 8	38.7 16	45.4 12	50.0 6	58.3 12	61.5 9	64.5 6	65.1 5	73.4 5	89.9 4
1947	14.1 4	21.7 4	36.6 5	47.1 4	50.9 3	55.4 3	61.4 4	67.4 6	80.9 13	102.0 12
1948	27.0 23	58.0 25	67.1 25	72.9 24	77.4 22	79.2 21	87.0 21	98.8 24	111.0 24	139.0 24
1949	24.0 19	51.0 23	57.0 21	61.1 19	63.5 17	67.5 15	72.7 15	72.0 9	74.8 6	92.5 7
1950	14.1 5	22.2 5	29.4 1	46.9 3	51.8 4	56.9 4	57.8 3	58.4 3	62.0 2	78.1 1
1951	14.8 6	22.3 6	34.7 2	38.0 1	40.7 2	46.1 2	50.2 2	55.1 2	65.8 3	95.6 9
1952	26.0 20	45.0 21	57.4 22	62.7 20	71.6 21	79.4 22	89.8 24	96.7 23	108.0 23	135.0 23
1953	22.0 14	26.0 9	38.6 7	54.2 14	64.7 19	70.8 18	88.7 22	94.0 21	97.5 21	117.0 20
1954	18.0 11	25.3 7	48.4 16	54.1 13	57.5 11	60.2 7	66.3 8	78.8 17	80.7 12	94.4 8
1955	13.0 1	18.7 1	40.4 8	50.2 8	53.1 5	62.2 10	67.1 10	72.3 10	75.5 8	87.5 3
1956	16.0 9	30.3 12	43.6 10	48.9 5	57.2 10	63.3 11	66.6 9	71.6 8	76.1 9	90.1 5
1957	13.0 2	20.7 3	35.4 3	38.6 2	40.0 1	41.5 1	43.1 1	44.6 1	50.5 1	91.9 6
MEAN	20.456	34.408	46.988	55.384	61.160	66.432	71.532	77.220	84.452	105.852
VARIANCE	35.464	137.701	99.383	88.420	122.577	122.015	155.560	225.352	329.646	320.357
STD DEV	5.955	11.735	9.969	9.403	11.071	11.046	12.472	15.018	18.156	17.899
SKEWNESS	.630	.348	.325	.336	.239	-.171	-.125	.207	1.099	.958
SE OF SKEW	.464	.464	.464	.464	.464	.464	.464	.464	.464	.464
SER CORR	.538	.174	.117	.272	.246	.204	.206	.272	.264	.254
C OF VAR	.291	.341	.212	.170	.181	.166	.174	.194	.215	.169

LOGS

MEAN OF	1.294	1.512	1.663	1.737	1.780	1.816	1.848	1.880	1.918	2.019
VAR OF	.016	.023	.009	.005	.006	.006	.006	.008	.008	.005
STD DEV OF	.125	.151	.093	.074	.080	.076	.079	.087	.090	.070
SKEW OF	.139	-.025	-.099	-.127	-.300	-.709	-.685	-.481	.196	.558
SE OF SKEW OF	.464	.464	.464	.464	.464	.464	.464	.464	.464	.464
SER CORR OF	.520	.130	.105	.260	.211	.171	.189	.264	.278	.287
C OF VAR OF	.096	.100	.056	.043	.045	.042	.043	.046	.047	.035

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	10.388	14.385	27.526	36.151	37.661	39.976	42.093	44.332	52.667	76.708
20.00	12.408	18.302	32.151	41.010	43.793	47.673	50.526	53.133	59.555	82.364
10.00	13.674	20.797	34.879	43.800	47.285	51.904	55.196	58.128	63.744	85.966
5.00	15.416	24.266	38.446	47.372	51.711	57.074	60.938	64.418	69.373	90.973
2.00	19.529	32.544	46.138	54.818	60.744	66.855	71.909	77.006	82.151	102.942
1.25	24.974	43.558	55.095	63.111	70.429	76.069	82.391	89.985	98.217	118.987
1.11	28.508	50.686	60.330	67.797	75.708	80.508	87.501	96.779	108.248	129.489
1.04	32.926	59.542	66.363	73.068	81.470	84.882	92.581	103.936	120.434	142.697
1.02	36.195	66.047	70.521	76.626	85.252	87.488	95.634	108.479	129.240	152.529
1.01	39.456	72.488	74.442	79.930	88.685	89.677	98.213	112.490	137.861	162.380

1-4090.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CEDAR CREEK AT LANDKA HARBOR, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1913	456.0 5	383.0 5	312.0 5	269.0 5	208.0 5	153.0 12	126.0 17	123.0 15	118.0 14	108.0 12
1934	271.0 18	222.0 19	181.0 20	148.0 20	136.0 17	133.0 17	131.0 14	127.0 16	110.0 18	95.9 18
1915	329.0 10	307.0 9	233.0 12	167.0 14	146.0 16	138.0 15	130.0 15	125.0 14	114.0 16	94.1 19
1936	321.0 11	284.0 14	240.0 10	186.0 12	161.0 12	155.0 11	150.0 9	145.0 10	133.0 10	106.0 13
1937	267.0 19	249.0 17	222.0 14	166.0 15	150.0 15	149.0 14	142.0 12	138.0 13	129.0 12	106.0 14
1938	757.0 2	662.0 2	437.0 2	282.0 3	256.0 2	195.0 3	186.0 3	165.0 6	140.0 8	133.0 3
1939	631.0 3	622.0 3	384.0 3	278.0 4	223.0 4	218.0 2	210.0 2	196.0 2	173.0 2	152.0 2
1940	307.0 14	289.0 12	213.0 17	173.0 13	157.0 13	150.0 13	142.0 13	141.0 11	128.0 13	112.0 9
1941	138.0 26	183.0 22	174.0 21	149.0 19	132.0 18	130.0 18	126.0 18	120.0 19	113.0 17	99.7 15
1942	234.0 23	182.0 23	149.0 23	133.0 23	115.0 25	109.0 25	103.0 26	97.5 26	91.0 25	82.5 23
1943	203.0 25	192.0 21	170.0 22	142.0 22	126.0 21	124.0 21	123.0 19	122.0 17	116.0 15	97.0 17
1944	996.0 1	835.0 1	571.0 1	341.0 1	233.0 3	179.0 7	163.0 7	152.0 8	149.0 6	123.0 7
1945	276.0 17	265.0 16	238.0 11	212.0 9	181.0 10	162.0 9	147.0 10	146.0 9	137.0 9	112.0 10
1946	320.0 12	305.0 10	256.0 8	207.0 10	169.0 11	159.0 10	147.0 11	141.0 12	132.0 11	110.0 11
1947	256.0 21	169.0 25	129.0 26	129.0 25	118.0 23	110.0 24	105.0 24	103.0 24	98.3 23	83.7 22
1948	368.0 7	313.0 8	254.0 9	205.0 11	194.0 7	170.0 8	163.0 8	157.0 7	149.0 7	127.0 6
1949	260.0 20	239.0 18	231.0 13	214.0 8	194.0 8	185.0 5	179.0 5	171.0 3	158.0 4	121.0 8
1950	231.0 24	170.0 24	148.0 24	129.0 26	113.0 26	107.0 26	105.0 25	99.8 25	90.1 26	78.2 25
1951	216.0 22	203.0 20	182.0 19	152.0 18	131.0 20	127.0 19	117.0 21	111.0 20	100.0 22	79.4 24
1952	390.0 4	340.0 6	293.0 6	222.0 6	199.0 6	189.0 4	181.0 4	170.0 4	156.0 5	130.0 4
1953	344.0 8	318.0 7	256.0 7	217.0 7	186.0 9	183.0 6	174.0 6	168.0 5	159.0 3	130.0 5
1954	299.0 15	268.0 15	217.0 16	162.0 16	137.0 19	126.0 20	118.0 20	111.0 21	108.0 19	97.6 16
1955	310.0 9	297.0 11	220.0 15	146.0 21	121.0 22	112.0 22	107.0 22	107.0 22	102.0 21	88.8 21
1956	314.0 13	286.0 13	209.0 18	162.0 17	155.0 14	136.0 16	127.0 16	121.0 18	108.0 20	90.3 20
1957	288.0 16	166.0 26	144.0 25	131.0 24	116.0 24	112.0 23	106.0 23	103.0 23	97.6 24	77.1 26
1958	562.0 4	471.0 4	382.0 4	336.0 2	279.0 1	258.0 1	228.0 1	226.0 1	223.0 1	169.0 1
MEAN	364.769	317.500	246.385	194.538	166.577	152.654	143.692	137.819	128.154	107.858
VARIANCE	35246.957	26880.098	8864.617	3825.450	2112.492	1371.754	1125.420	1006.424	908.161	531.144
STD DEV	187.742	163.952	94.152	61.850	45.962	37.037	33.547	31.724	30.136	23.047
SKEWNESS	2.156	1.882	1.423	1.094	.847	1.008	.865	.979	1.280	.839
SE OF SKEW	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR	-.008	.039	.009	-.023	.010	.046	.087	.055	-.001	.075
C OF VAR	.515	.516	.382	.318	.276	.243	.233	.230	.235	.214

LOGS

	2.523	2.459	2.365	2.270	2.207	2.172	2.147	2.129	2.097	2.024
MEAN OF	.031	.034	.022	.016	.013	.010	.009	.009	.009	.008
VAR OF	.175	.185	.149	.127	.114	.100	.097	.095	.095	.089
STD DEV OF	1.265	.902	.611	.640	.428	.456	.452	.482	.619	.361
SKEW OF	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SE OF SKEW OF	.008	.035	.010	-.012	.013	.056	.086	.068	.032	.082
SER CORR OF	.069	.075	.063	.056	.052	.046	.045	.045	.045	.044
C OF VAR OF										

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	189.245	141.945	122.033	108.325	94.944	94.112	89.962	87.531	83.140	69.157
1.05	204.046	161.752	140.867	122.027	108.107	105.158	100.211	97.032	91.053	77.009
1.11	216.480	176.569	153.771	131.312	116.594	112.224	106.744	103.112	96.263	81.901
1.25	237.616	200.028	172.876	144.911	128.553	122.112	115.857	111.618	103.702	88.607
2.00	306.802	270.281	224.078	180.575	157.990	146.128	137.880	132.260	122.335	104.340
5.00	445.828	399.660	305.144	235.169	199.390	179.247	168.028	160.656	148.989	125.037
10.00	571.146	509.669	366.090	275.040	227.663	201.497	188.164	179.688	167.380	138.433
25.00	775.885	681.151	451.823	329.801	264.487	230.103	213.929	204.103	191.498	155.167
50.00	968.627	835.898	522.342	373.890	292.773	251.825	233.415	222.608	210.129	167.557
100.00	1202.228	1016.932	598.836	420.904	321.830	273.938	253.187	241.417	229.350	179.922

STATISTICS OF MONTHLY MEANS, 1933-1958

STATISTICS OF LOGS OF MONTHLY MEANS, 1933-1958

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	82.87	30.19	1.880	.3643	6.399	.472	1.897	.1334	1.115	.0703	7.871	.457
NOV	101.5	27.15	.2869	.2676	7.835	.453	1.991	.1177	-.0415	.0591	8.263	.446
DEC	99.69	27.16	.7720	.2724	7.698	.369	1.984	.1141	.2951	.0575	8.233	.416
JAN	115.5	30.25	-.1582	.2620	8.915	.633	2.047	.1229	-.5859	.0601	8.493	.693
FEB	121.9	30.44	1.555	.2497	9.412	.579	2.074	.0997	.5787	.0481	8.609	.586
MAR	136.5	33.23	1.389	.2435	10.54	.739	2.124	.0959	.9412	.0451	8.815	.729
APR	131.8	31.35	.8568	.2379	10.18	.936	2.109	.0983	.4947	.0466	8.751	.920
MAY	120.6	36.38	1.232	.3017	9.311	.789	2.064	.1221	.4599	.0592	8.566	.751
JUN	102.5	31.63	1.218	.3086	7.915	.816	1.993	.1222	.6916	.0613	8.272	.761
JUL	89.59	37.07	2.254	.4138	6.918	.677	1.925	.1483	.9639	.0770	7.989	.718
AUG	102.0	52.74	1.544	.5170	7.876	.823	1.962	.1980	.5661	.1009	8.143	.773
SEP	90.75	37.39	1.321	.4120	7.007	.746	1.927	.1652	.3459	.0858	7.995	.672

1-4094.00 MULLICA RIVER NEAR BATSTO, N. J.

Location.--Lat 39°40'28", long 74°39'55", 2.5 miles north of Batsto, N.J.

Drainage area.--46.1 sq mi.

Remarks.--Occasional slight regulation by cranberry bogs; not significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1958										3	4	10	5	9	1	6	9	13	19	22	19	31	31	19	35	34	13	27	21	9	15	5	2	1	1	1	60870.0
1959										3	14	15	22	13	13	11	40	45	69	39	31	24	11	5	3	3	2	2								39708.0	
1960										9	18	27	24	33	12	12	30	36	24	46	27	23	16	14	9	1	2				1	1	1			34901.0	
1961																																				45920.0	
1962																																				37047.0	
1963																																				33745.0	
1964																																				33829.0	
1965																																				24811.0	
1966																																				18385.4	
1967																																				43958.0	
1968																																				39052.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	4018	100.0	9	23.00	98	3887	96.7	18	79.0	343	2246	55.9	27	280	48	119	2.9
1	7.50	2	4018	100.0	10	26.00	108	3789	94.3	19	91.0	236	1903	47.4	28	320	31	71	1.7
2	8.60	5	4016	100.0	11	30.00	146	3681	91.6	20	100.0	421	1667	41.5	29	360	22	40	.9
3	9.90	2	4011	99.8	12	34.00	212	3535	88.0	21	120.0	346	1246	31.0	30	420	9	18	.4
4	11.00	3	4009	99.8	13	40.00	144	3323	82.7	22	140.0	243	900	22.4	31	480	4	9	.2
5	13.00	2	4006	99.7	14	45.00	194	3179	79.1	23	160.0	177	657	16.4	32	550	3	5	.1
6	15.00	3	4004	99.7	15	52.00	205	2985	74.3	24	180.0	171	480	11.9	33	630	1	2	.0
7	17.00	22	4031	99.6	16	60.00	252	2780	69.2	25	210.0	100	309	7.7	34	730	1	1	.0
8	20.00	62	3979	99.0	17	69.00	282	2528	62.9	26	240.0	90	209	5.2					

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	4018	100.0	9	23.00	98	3887	96.7	18	79.00	343	2246	55.9	27	280	48	119	2.9					
1	7.50	2	4018	100.0	10	26.00	108	3789	94.3	19	91.00	236	1903	47.4	28	320	31	71	1.7					
2	8.60	5	4016	100.0	11	30.00	146	3681	91.6	20	100.00	421	1667	41.5	29	360	22	40	.9					
3	9.90	2	4011	99.8	12	34.00	212	3535	88.0	21	120.00	346	1246	31.0	30	420	9	18	.4					
4	11.00	3	4009	99.8	13	40.00	144	3323	82.7	22	140.00	243	900	22.4	31	480	4	9	.2					
5	13.00	2	4006	99.7	14	45.00	194	3179	79.1	23	160.00	177	657	16.4	32	550	3	5	.1					
6	15.00	3	4004	99.7	15	52.00	205	2985	74.3	24	180.00	171	480	11.9	33	630	1	2	.0					
7	17.00	22	4031	99.6	16	60.00	252	2780	69.2	25	210.00	100	309	7.7	34	730	1	1	.0					
8	20.00	42	3979	99.0	17	69.00	282	2528	62.9	26	240.00	90	209	5.2										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MULLICA RIVER NEAR BATSTO, N.J.	1	3	7	14	30	60	90	120	183	ANNUAL
1958	64.0 10	68.7 10	75.7 10	79.1 10	83.7 10	108.0 10	110.0 10	116.0 10	133.0 10	161.0 10
1959	32.0 6	33.0 6	33.3 6	34.1 6	36.2 6	40.8 5	47.2 5	57.1 6	68.6 6	94.7 5
1960	27.0 5	27.7 5	29.0 5	30.6 5	33.0 5	41.6 6	49.1 6	54.4 5	81.1 7	118.0 8
1961	33.0 7	37.0 7	37.6 7	40.1 7	55.8 9	58.6 7	60.5 7	66.5 7	67.2 5	105.0 6
1962	36.0 8	40.3 9	42.4 9	43.9 8	52.0 7	69.7 9	68.4 8	78.5 8	81.2 8	113.0 7
1963	26.0 4	26.7 4	28.0 4	29.0 4	32.1 4	33.1 4	36.1 4	36.5 4	45.6 3	83.0 3
1964	13.0 2	15.0 2	18.0 2	19.1 2	21.8 3	24.4 3	30.5 3	31.5 2	37.6 2	79.3 2
1965	18.0 3	18.7 3	19.9 3	19.9 3	21.0 2	21.9 2	22.8 1	22.6 1	26.6 1	50.8 1
1966	7.5 1	7.9 1	8.6 1	10.5 1	15.2 1	20.5 1	23.8 2	24.2 2	45.4 4	86.0 4
1967	37.0 9	38.0 8	39.9 8	45.6 9	54.1 8	64.7 8	69.6 9	94.8 9	100.0 9	125.0 9
MEAN	29.350	31.300	33.240	35.190	40.490	48.130	51.800	59.210	69.030	101.580
VARIANCE	246.003	285.129	334.767	366.585	436.985	726.132	712.105	910.439	1007.896	911.250
STD DEV	15.684	16.886	18.297	19.146	20.904	26.947	26.685	30.173	31.747	30.187
SKEWNESS	.939	.988	1.283	1.255	.868	1.086	1.082	.698	.726	.384
SE OF SKEW	.687	.687	.687	.687	.687	.687	.687	.687	.687	.687
SER CORR	.270	.274	.227	.177	.158	.142	.189	.179	.285	.207
C OF VAR	.534	.539	.550	.544	.516	.560	.515	.510	.460	.297

LOGS

MEAN OF	1.404	1.432	1.460	1.488	1.554	1.624	1.664	1.720	1.796	1.988
VAR OF	.069	.069	.065	.059	.053	.057	.049	.052	.044	.019
STD DEV OF	.263	.262	.255	.244	.229	.238	.221	.228	.209	.136
SKEW OF	-.772	-.740	-.634	-.373	-.087	.181	.083	-.069	-.284	-.614
SE OF SKEW OF	.687	.687	.687	.687	.687	.687	.687	.687	.687	.687
SER CORR OF	.177	.201	.178	.185	.242	.294	.335	.360	.426	.263
C OF VAR OF	.187	.183	.175	.164	.148	.147	.133	.133	.116	.069

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	4.460	4.841	5.651	7.181	10.144	12.645	14.600	15.029	18.475	40.876
20.00	8.365	8.981	10.008	11.582	14.845	17.574	20.255	21.866	27.297	55.340
10.00	11.308	12.091	13.221	14.733	18.132	21.071	24.181	26.642	33.306	64.159
5.00	15.802	16.837	18.085	19.461	23.038	26.398	30.039	33.769	42.024	75.798
2.00	27.416	29.133	30.696	31.885	36.124	41.350	45.833	52.797	63.938	100.547
1.25	42.623	45.388	47.734	49.724	56.033	66.304	70.626	81.845	94.195	127.459
1.11	51.658	55.051	58.193	61.547	70.185	85.674	88.892	102.573	113.909	141.850
1.04	61.405	65.821	70.230	76.202	88.948	113.426	113.948	130.161	138.217	157.076
1.02	67.758	72.847	78.341	86.828	103.477	136.515	133.999	151.603	155.836	166.708
1.01	73.360	79.101	85.765	97.171	118.424	161.712	155.207	173.730	173.025	175.160

1-4094.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MULLICA RIVER NEAR BATSTO, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1958	733.0 1	668.0 1	505.0 1	377.0 1	312.0 1	280.0 1	269.0 1	251.0 1	214.0 1	167.0 1
1959	387.0 5	360.0 5	293.0 7	214.0 9	185.0 8	163.0 7	147.0 8	138.0 9	134.0 6	109.0 4
1960	370.0 2	303.0 2	359.0 3	243.0 5	165.0 9	162.0 8	151.0 5	140.0 7	122.0 9	95.4 7
1961	350.0 7	345.0 6	331.0 5	282.0 2	257.0 2	243.0 2	216.0 2	199.0 2	172.0 2	126.0 2
1962	346.0 8	335.0 8	287.0 9	231.0 7	207.0 4	189.0 3	156.0 4	146.0 5	125.0 8	101.0 6
1963	342.0 9	330.0 9	293.0 6	234.0 6	188.0 7	156.0 9	142.0 9	145.0 6	131.0 7	92.5 8
1964	378.0 6	343.0 7	291.0 8	220.0 8	197.0 6	168.0 6	150.0 6	157.0 4	142.0 4	92.4 9
1965	225.0 11	211.0 11	190.0 11	162.0 10	135.0 10	123.0 10	121.0 10	116.0 10	100.0 10	88.0 10
1966	271.0 10	248.0 10	208.0 10	158.0 11	133.0 11	96.0 11	89.3 11	89.1 11	72.6 11	50.4 11
1967	553.0 3	494.0 3	381.0 2	278.0 3	245.0 3	175.0 5	150.0 7	139.0 8	136.0 5	120.0 3
1968	451.0 4	415.0 4	338.0 4	258.0 4	201.0 5	183.0 4	169.0 3	169.0 3	146.0 3	107.0 5

MEAN	418.727	386.545	316.000	241.545	202.273	176.182	160.027	153.555	135.873	102.609
VARIANCE	21863.980	16532.637	7256.797	3628.471	2812.815	2556.162	2240.746	1814.381	1317.736	924.042
STD DEV	147.865	128.579	85.187	60.237	53.036	50.558	47.337	42.596	36.301	30.398
SKEWNESS	.953	.953	.750	.831	.710	.700	1.205	1.094	.567	.431
SE OF SKEW	.661	.661	.661	.661	.661	.661	.661	.661	.661	.661
SER CORR	.055	.101	.140	.075	-.049	.179	.131	.053	.106	.240
C OF VAR	.353	.333	.270	.249	.262	.287	.296	.277	.267	.296

LOGS

MEAN OF	2.599	2.566	2.485	2.371	2.293	2.230	2.188	2.172	2.119	1.993
VAR OF	.022	.020	.014	.011	.013	.016	.015	.014	.014	.019
STD DEV OF	.148	.141	.117	.107	.112	.126	.123	.116	.120	.137
SKEW OF	.218	.107	-.145	.018	.100	-.231	.179	.138	-.536	-.688
SE OF SKEW OF	.661	.661	.661	.661	.661	.661	.661	.661	.661	.661
SER CORR OF	.138	.188	.219	.160	.020	.239	.198	.138	.152	.246
C OF VAR OF	.057	.055	.047	.045	.049	.056	.056	.054	.057	.069

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	189.778	177.881	158.709	133.081	109.653	82.476	82.910	81.896	62.127	40.520
1.05	231.608	218.408	194.156	157.044	129.255	103.555	98.295	96.681	80.295	55.508
1.11	258.703	244.183	215.631	171.581	141.324	116.396	107.961	105.863	91.114	64.639
1.25	297.040	280.061	244.259	191.044	157.692	133.550	121.296	118.407	105.192	76.651
2.00	392.019	366.302	307.833	234.825	195.369	171.612	152.932	147.663	134.674	101.923
5.00	526.495	483.026	384.390	288.933	243.517	217.081	195.123	185.756	166.505	128.793
10.00	618.639	560.013	430.143	322.143	273.906	243.958	222.698	210.171	183.600	142.822
25.00	738.759	657.326	483.635	361.885	311.081	275.040	257.359	240.398	201.845	157.351
50.00	831.003	730.015	520.910	390.197	338.083	296.463	283.146	262.589	213.512	166.355
100.00	925.665	802.991	556.341	417.598	364.618	316.639	308.969	284.580	223.857	174.122

STATISTICS OF MONTHLY MEANS, 1958-1968

STATISTICS OF LOGS OF MONTHLY MEANS, 1958-1968

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	76.64	50.13	1.097	.6541	6.222	.761	1.801	.2839	.1199	.1576	7.744	.793
NOV	78.69	38.26	.5116	.4862	6.388	.624	1.842	.2405	-.7501	.1305	7.919	.652
DEC	104.1	34.13	-.4004	.3279	8.448	.469	1.987	.1902	-2.092	.0957	8.543	.690
JAN	131.9	42.24	-.5436	.3203	10.71	.752	2.093	.1785	-1.827	.0853	8.996	.874
FEB	135.1	30.96	1.407	.2291	10.97	.528	2.122	.0911	1.050	.0429	9.121	.519
MAR	173.2	64.74	.7756	.3739	14.06	.477	2.211	.1634	-.0934	.0739	9.505	.428
APR	128.3	51.66	.6584	.4025	10.42	.677	2.076	.1775	-.0947	.0855	8.925	.580
MAY	111.9	54.91	1.882	.4907	9.084	.699	2.011	.1834	.7531	.0912	8.643	.533
JUN	69.77	31.09	1.483	.4456	5.664	.258	1.810	.1742	.6370	.0962	7.781	.328
JUL	68.28	34.69	1.228	.5080	5.543	.405	1.788	.2093	.2046	.1171	7.685	.496
AUG	86.26	81.75	1.525	.9477	7.002	.767	1.784	.3699	.5637	.2073	7.668	.744
SEP	67.72	47.21	1.058	.6971	5.498	.645	1.738	.2983	.2339	.1717	7.470	.764

1-4095.00 BATSTO RIVER AT BATSTO, N. J.

Location.--Lat 39°38'33", long 74°39'00", 30 ft downstream from highway bridge at Batsto, N.J.

Drainage area.--70.5 sq mi.

Remarks.--Regulation reduces flood peaks and is significant at low flow.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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
YEAR																																			CFS_DAYS
1928																																			53631.0
1929																																			41317.0
1930																																			33766.0
1931																																			29457.0
1932																																			33982.0
1933																																			53440.0
1934																																			42484.0
1935																																			43633.0
1936																																			55134.0
1937																																			46320.0
1938																																			51660.0
1940																																			52451.0
1941																																			42256.0
1942																																			33987.0
1943																																			42353.0
1944																																			48431.0
1945																																			51157.0
1946																																			50638.0
1947																																			18997.0
1948																																			59943.0
1949																																			54958.0
1950																																			31804.0
1951																																			42275.0
1952																																			66679.0
1953																																			60406.0
1954																																			38577.0
1955																																			37403.0
1956																																			42044.0
1957																																			38278.0
1958																																			70390.0
1959																																			50788.0
1960																																			45640.7
1961																																			52167.0
1962																																			47871.0
1963																																			40459.0
1964																																			38615.0
1965																																			32105.0
1966																																			24156.0
1967																																			44138.0

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	14245	100.0	9	21.00	4	14236	99.9	18	87.0	1605	2219	64.7	27	30	98	254	1.7
1	5.70	1	14245	100.0	10	24.00	2	14232	99.9	19	100.0	1177	7614	53.5	28	430	68	152	1.0
2	6.70	0	14244	100.0	11	28.00	9	14230	99.9	20	120.0	1522	5437	38.2	29	510	34	84	0.5
3	7.90	0	14244	100.0	12	33.00	25	14221	99.8	21	140.0	1511	3915	27.5	30	600	22	50	0.3
4	9.20	0	14244	100.0	13	39.00	223	14196	99.7	22	170.0	564	2404	16.9	31	700	12	28	0.1
5	11.00	1	14244	100.0	14	46.00	596	13973	99.8	23	190.0	750	1840	12.9	32	820	9	16	0.1
6	13.00	0	14243	100.0	15	54.00	1084	13377	93.9	24	230.0	425	1090	7.7	33	960	4	7	0.0
7	15.00	3	14243	100.0	16	63.00	1426	12293	86.3	25	270.0	240	665	4.7	34	1100	3	3	0.0
8	18.00	4	14240	100.0	17	74.00	1648	10867	76.3	26	310.0	175	425	3.0					

1-4095.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

BATSTO RIVER AT BATSTO, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1928	65.0 34	69.0 34	70.9 34	78.1 36	90.2 37	91.3 35	91.3 31	99.4 32	110.0 30	134.0 27
1929	32.0 8	44.3 11	52.7 22	52.9 17	50.7 18	58.8 14	59.3 10	64.7 13	75.1 11	103.0 9
1930	22.0 6	47.0 14	48.3 11	49.1 10	51.6 10	54.2 7	55.1 6	56.2 4	59.3 3	75.3 2
1931	45.0 15	45.0 12	47.0 9	48.1 9	54.5 13	61.2 17	61.5 14	61.9 10	66.4 7	91.1 3
1932	37.0 10	42.0 9	43.9 6	44.3 5	46.4 5	49.5 5	53.8 4	58.2 6	75.4 12	118.0 16
1933	15.0 3	40.7 4	58.0 26	68.1 32	71.1 29	79.1 30	92.4 32	98.3 29	104.0 28	131.0 26
1934	60.0 32	60.7 30	63.6 30	65.6 29	74.6 32	76.0 27	85.0 28	96.7 28	96.2 23	124.0 23
1935	37.0 11	47.3 15	50.3 14	52.6 16	54.8 14	61.2 18	76.1 22	92.0 27	104.0 29	153.0 33
1936	50.0 24	51.0 22	51.7 19	54.4 20	57.5 19	61.0 16	72.8 20	79.9 19	84.7 17	123.0 22
1937	22.0 7	29.7 3	42.0 5	47.9 7	57.9 21	70.9 24	80.2 24	81.6 21	99.0 25	118.0 17
1938	69.0 36	70.7 36	71.6 36	74.3 34	84.8 35	98.5 37	111.0 37	151.0 38	163.0 38	192.0 36
1940	16.0 4	34.7 4	52.6 21	64.1 28	73.4 30	87.5 32	110.0 36	113.0 34	124.0 34	153.0 34
1941	50.0 25	52.0 26	52.9 23	53.4 18	54.4 12	58.4 13	59.7 12	62.2 11	67.4 10	94.5 4
1942	57.0 29	62.0 31	63.0 29	64.0 27	66.0 25	72.6 25	80.8 26	86.3 22	90.0 19	112.0 13
1943	49.0 22	49.3 19	51.1 16	51.7 14	55.3 17	59.8 15	64.8 15	81.4 20	96.1 27	119.0 18
1944	55.0 29	55.3 27	56.3 25	58.4 24	61.2 23	77.6 29	80.5 25	90.1 25	102.0 27	140.0 29
1945	67.0 35	69.0 35	70.9 35	74.1 33	80.2 33	85.6 31	88.6 30	110.0 33	120.0 32	143.0 32
1946	58.0 30	59.3 29	61.0 28	63.4 26	66.9 26	67.4 23	70.6 18	71.5 15	84.8 18	113.0 14
1947	51.0 26	51.7 25	53.6 24	56.5 23	57.6 20	61.6 19	70.6 19	74.7 17	83.7 15	120.0 20
1948	47.0 37	83.0 37	84.1 37	86.9 37	88.3 36	94.8 36	103.0 35	128.0 35	152.0 36	200.0 38
1949	37.0 12	47.7 17	48.7 13	51.2 13	52.4 11	55.0 8	58.5 8	59.5 8	67.1 8	96.9 7
1950	48.0 20	48.0 18	48.3 12	50.7 12	51.3 9	56.5 9	58.9 9	59.9 9	66.2 6	103.0 10
1951	46.0 16	46.0 13	46.3 8	48.1 8	50.2 7	56.7 10	60.7 13	64.4 12	80.3 13	140.0 30
1952	47.0 18	51.0 23	65.3 31	66.3 30	68.4 27	76.5 28	100.0 34	130.0 36	136.0 35	188.0 35
1953	49.0 21	50.3 20	51.6 17	53.9 19	54.8 15	57.2 12	66.1 16	71.4 14	90.3 20	130.0 24
1954	40.0 17	47.3 16	47.9 10	49.3 11	49.7 6	51.7 6	57.3 7	74.3 16	82.8 14	109.0 12
1955	43.0 14	43.7 10	45.3 7	46.4 6	51.0 8	62.0 20	67.1 17	76.8 18	84.7 16	107.0 11
1956	64.0 33	64.0 32	65.3 32	67.5 31	68.8 28	75.5 26	84.1 27	87.5 24	93.0 21	123.0 21
1957	47.0 13	40.0 7	40.0 4	40.0 3	41.6 4	42.8 1	44.5 2	45.9 2	53.4 2	115.0 15
1958	81.0 38	83.3 38	92.4 38	101.0 38	107.0 38	124.0 38	129.0 38	138.0 37	162.0 37	194.0 37
1959	5.7 1	39.2 6	50.8 15	55.7 22	61.6 24	66.5 22	79.0 23	86.3 23	98.0 24	119.0 19
1960	51.0 27	51.0 24	51.7 18	54.5 21	58.4 22	64.3 21	75.3 21	90.7 26	120.0 33	143.0 31
1961	48.0 19	67.3 33	70.9 33	75.9 35	83.5 34	87.6 33	95.0 33	98.8 30	99.1 26	130.0 25
1962	53.0 31	53.3 28	59.0 27	61.1 25	73.7 31	88.7 34	88.0 29	99.3 31	115.0 31	138.0 28
1963	50.0 23	50.7 21	52.1 20	52.5 15	55.3 16	57.1 11	59.5 11	59.4 7	65.5 5	95.7 5
1964	18.0 5	28.7 2	37.1 3	39.5 2	41.5 3	47.8 4	55.9 5	56.6 5	62.2 4	98.2 8
1965	12.0 2	26.3 1	36.9 1	40.4 4	41.1 2	43.3 2	44.4 1	44.3 1	47.1 1	68.3 1
1966	36.0 9	36.3 5	36.9 2	37.2 1	39.3 1	44.0 3	46.1 3	54.8 3	67.4 9	96.7 6
MEAN	45.176	51.126	55.053	57.871	61.921	68.005	74.671	83.026	93.347	125.045
VARIANCE	323.872	178.670	154.402	184.949	233.097	309.139	393.787	657.183	803.935	944.393
STD DEV	17.996	13.367	12.426	13.600	15.268	17.582	19.844	25.636	28.354	30.731
SKEWNESS	-.306	.522	1.013	1.082	.928	1.003	.679	.817	.828	.849
SE OF SKEW	.383	.383	.383	.383	.383	.383	.383	.383	.383	.383
SER CORR	-.168	-.088	-.086	-.065	.010	.004	.058	.059	.092	.161
C OF VAR	.398	.261	.226	.235	.247	.259	.266	.309	.304	.246

LOGS

MEAN OF	1.604	1.694	1.731	1.752	1.780	1.819	1.859	1.900	1.951	2.085
VAR OF	.059	.013	.009	.009	.010	.011	.013	.017	.017	.011
STD DEV OF	.244	.115	.093	.097	.102	.107	.113	.130	.129	.104
SKEW OF	-1.685	-.268	.389	.424	.347	.343	.103	.161	.099	.091
SE OF SKEW OF	.383	.383	.383	.383	.383	.383	.383	.383	.383	.383
SER CORR OF	-.123	.010	-.004	.007	.084	.060	.105	.126	.171	.254
C OF VAR OF	.152	.068	.054	.055	.058	.059	.061	.069	.066	.050

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	5.849	25.292	34.717	36.084	36.990	39.605	40.130	40.972	45.870	70.781
20.00	13.306	31.316	38.742	40.291	41.896	45.131	47.371	49.191	55.397	82.518
10.00	19.120	34.927	41.273	42.959	44.983	48.623	51.837	54.386	61.372	89.671
5.00	27.728	39.689	44.764	46.667	49.251	53.464	57.903	61.586	69.593	99.293
2.00	46.665	50.022	53.052	55.573	59.415	65.056	71.898	78.795	88.982	121.138
1.25	63.309	61.997	64.127	67.667	73.073	80.754	89.843	101.965	114.560	148.546
1.11	69.401	68.908	71.384	75.695	82.066	91.154	101.198	117.213	131.100	165.599
1.04	73.728	76.758	80.537	85.919	93.450	104.383	115.117	136.473	151.698	186.238
1.02	75.507	82.084	87.371	93.619	101.977	114.334	125.245	150.862	166.890	201.093
1.01	76.581	87.040	94.236	101.407	110.566	124.389	135.211	165.313	181.993	215.590

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BATSTO RIVER AT BATSTO, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1928	361.0 30	339.0 28	326.0 21	257.0 23	206.0 24	182.0 22	173.0 18	170.0 16	159.0 14	147.0 7
1929	441.0 23	404.0 22	328.0 20	304.0 15	274.0 18	194.0 15	188.0 12	173.0 13	150.0 19	113.0 26
1930	238.0 35	229.0 35	194.0 35	153.0 37	150.0 35	131.0 36	119.0 37	114.0 37	108.0 35	92.5 35
1931	303.0 32	244.0 33	181.0 38	149.0 38	121.0 39	117.0 38	116.0 38	110.0 38	97.6 38	80.7 38
1932	385.0 27	356.0 26	305.0 26	250.0 24	231.0 17	186.0 20	162.0 22	143.0 30	127.0 32	92.8 34
1933	1310.0 1	1080.0 1	743.0 1	488.0 1	318.0 6	203.0 14	172.0 19	168.0 17	159.0 15	146.0 8
1934	380.0 29	345.0 27	286.0 29	223.0 27	185.0 28	173.0 25	174.0 17	156.0 22	138.0 27	116.0 24
1935	618.0 13	570.0 11	412.0 12	265.0 18	201.0 27	174.0 23	162.0 23	155.0 24	140.0 24	120.0 20
1936	474.0 22	421.0 20	363.0 18	319.0 12	273.0 10	250.0 8	242.0 5	228.0 6	211.0 6	151.0 6
1937	336.0 31	333.0 29	293.0 27	234.0 25	215.0 20	188.0 18	175.0 15	174.0 12	167.0 9	127.0 17
1938	1060.0 5	933.0 3	626.0 4	374.0 9	284.0 9	226.0 9	217.0 9	196.0 9	163.0 12	142.0 11
1940	924.0 6	713.0 7	508.0 8	375.0 8	316.0 7	256.0 7	222.0 8	206.0 8	179.0 8	143.0 9
1941	291.0 33	269.0 32	255.0 30	211.0 30	171.0 30	164.0 29	156.0 27	148.0 28	139.0 25	116.0 21
1942	226.0 38	207.0 38	172.0 39	168.0 34	161.0 33	144.0 32	132.0 34	125.0 35	108.0 36	93.1 33
1943	274.0 34	237.0 34	217.0 33	194.0 32	167.0 31	159.0 30	151.0 30	150.0 27	141.0 23	116.0 22
1944	601.0 14	491.0 15	365.0 15	287.0 16	239.0 16	222.0 10	200.0 10	177.0 11	159.0 13	132.0 15
1945	636.0 11	533.0 13	489.0 9	333.0 11	271.0 11	184.0 21	161.0 24	167.0 18	158.0 16	140.0 12
1946	644.0 10	596.0 10	481.0 10	337.0 10	245.0 12	217.0 11	190.0 11	180.0 10	166.0 10	139.0 13
1947	382.0 28	308.0 30	246.0 31	216.0 28	206.0 25	165.0 28	154.0 29	146.0 29	137.0 28	107.0 28
1948	833.0 7	791.0 6	615.0 5	377.0 7	343.0 2	263.0 6	235.0 6	230.0 5	213.0 5	164.0 4
1949	563.0 17	515.0 14	446.0 11	378.0 6	319.0 5	244.0 3	264.0 4	248.0 3	224.0 4	151.0 5
1950	233.0 36	219.0 36	196.0 34	164.0 35	138.0 37	127.0 37	122.0 36	121.0 36	107.0 37	87.1 37
1951	567.0 16	401.0 23	360.0 19	259.0 21	205.0 26	190.0 16	171.0 20	167.0 19	155.0 17	116.0 23
1952	1130.0 2	918.0 4	664.0 3	427.0 4	327.0 3	284.0 4	273.0 3	247.0 4	238.0 2	182.0 2
1953	721.0 8	680.0 8	586.0 6	429.0 3	324.0 4	295.0 2	275.0 2	254.0 2	232.0 3	165.0 3
1954	573.0 15	448.0 17	322.0 22	215.0 29	165.0 32	141.0 34	137.0 32	128.0 34	129.0 31	106.0 29
1955	393.0 26	286.0 31	217.0 32	178.0 33	153.0 34	143.0 33	133.0 33	133.0 32	125.0 33	102.0 32
1956	528.0 18	444.0 19	320.0 23	257.0 22	214.0 21	187.0 19	174.0 16	156.0 23	137.0 29	115.0 25
1957	412.0 24	363.0 25	287.0 28	205.0 31	179.0 29	166.0 26	159.0 25	154.0 25	150.0 18	105.0 31
1958	1100.0 3	992.0 2	678.0 2	472.0 2	362.0 1	304.0 1	296.0 1	272.0 1	255.0 1	193.0 1
1959	516.0 20	463.0 16	380.0 14	311.0 13	240.0 15	209.0 13	187.0 13	172.0 14	165.0 11	139.0 14
1960	1060.0 4	873.0 5	576.0 7	387.0 5	242.0 13	189.0 17	163.0 21	154.0 26	139.0 26	125.0 18
1961	521.0 19	447.0 18	363.0 16	311.0 14	284.0 8	269.0 5	233.0 7	211.0 7	183.0 7	143.0 10
1962	634.0 12	535.0 12	363.0 17	275.0 17	240.0 14	212.0 12	176.0 14	170.0 15	147.0 21	131.0 16
1963	498.0 21	414.0 21	316.0 24	263.0 19	213.0 22	173.0 24	156.0 28	160.0 21	149.0 20	111.0 27
1964	408.0 25	390.0 24	315.0 25	229.0 26	207.0 23	166.0 27	159.0 26	167.0 20	146.0 22	106.0 30
1965	210.0 39	205.0 39	184.0 36	154.0 36	145.0 36	131.0 35	131.0 35	128.0 33	114.0 34	88.0 36
1966	230.0 37	210.0 37	183.0 37	146.0 39	131.0 38	102.0 39	97.1 39	98.3 39	83.6 39	66.2 39
1967	713.0 9	607.0 9	407.0 13	263.0 20	218.0 19	155.0 31	148.0 31	136.0 31	133.0 30	121.0 19
MEAN	557.103	482.282	373.538	277.872	226.487	192.949	178.336	168.931	154.646	123.856
VARIANCE	79464.000	55536.867	23923.801	8500.820	4102.340	2665.566	2223.635	1738.636	1517.388	762.604
STD DEV	281.894	235.663	154.673	92.200	64.049	51.629	47.155	41.697	38.954	27.615
SKENNESS	1.021	.998	.765	.521	.382	.546	.824	.790	.835	.342
SE OF SKEW	.378	.378	.378	.378	.378	.378	.378	.378	.378	.378
SER CORR	.033	.030	.125	.157	.183	.210	.185	.220	.272	.255
C OF VAR	.506	.489	.414	.332	.283	.268	.264	.247	.252	.223

LOGS

MEAN OF	2.695	2.636	2.537	2.420	2.338	2.270	2.237	2.215	2.177	2.082
VAR OF	.046	.042	.032	.021	.016	.013	.012	.011	.011	.010
STD DEV OF	.214	.204	.178	.146	.125	.116	.111	.104	.106	.099
SKEW OF	.095	.180	.066	-.066	-.120	-.015	.213	.216	.114	-.306
SE OF SKEW OF	.378	.378	.378	.378	.378	.378	.378	.378	.378	.378
SER CORR OF	.152	.144	.211	.221	.216	.252	.222	.264	.304	.295
C OF VAR OF	.079	.077	.070	.060	.053	.051	.050	.047	.049	.048

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	163.010	154.286	135.581	118.732	108.821	99.982	99.213	97.831	86.675	67.609
1.05	223.274	204.661	177.044	150.724	134.438	120.111	115.255	112.525	101.153	81.521
1.11	264.802	239.153	204.445	170.922	150.139	132.417	125.250	121.616	110.024	89.652
1.25	326.442	290.190	243.742	198.771	171.269	148.982	138.950	134.007	122.011	100.160
2.00	491.239	426.484	342.830	264.244	218.954	186.532	171.108	162.814	149.447	122.237
5.00	747.381	639.412	485.250	349.449	277.651	233.329	213.430	200.238	184.262	146.749
10.00	934.831	796.587	583.370	403.579	313.346	262.196	240.822	224.217	206.128	160.436
25.00	1190.796	1013.243	711.333	469.839	355.624	296.844	275.014	253.922	232.782	175.616
50.00	1394.890	1187.677	809.421	517.878	385.420	321.575	300.308	275.754	252.089	185.709
100.00	1610.207	1373.266	909.811	564.953	413.987	345.542	325.328	297.413	271.024	194.956

1-4100.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

OSWEGO RIVER AT HARRISVILLE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1931	26.0 13	26.7 12	28.0 13	30.6 12	33.8 11	39.6 14	39.6 9	41.0 9	46.2 6	61.5 3
1932	14.0 5	32.7 24	33.4 22	33.7 16	34.5 12	36.3 10	41.1 12	44.6 11	52.9 12	78.4 14
1933	41.0 34	41.3 32	43.3 32	45.3 30	50.5 29	52.2 26	65.4 28	72.5 29	78.4 30	95.8 27
1934	37.0 31	47.3 34	50.0 34	54.1 34	56.7 33	61.7 30	65.2 27	71.9 28	72.9 24	92.1 23
1935	37.0 32	37.3 28	38.4 28	39.9 27	45.0 26	47.9 24	58.4 25	62.2 23	73.0 25	106.0 31
1936	29.0 18	29.3 16	33.1 21	36.8 23	40.1 22	45.1 21	51.8 22	58.2 22	67.2 20	96.1 28
1937	24.0 11	24.0 9	26.3 9	29.1 9	33.7 10	41.8 18	50.5 21	57.2 21	70.7 21	88.7 19
1938	29.0 19	30.0 19	36.0 25	45.6 31	50.1 28	58.8 29	65.5 29	101.0 36	110.0 35	123.0 34
1939	35.0 29	38.0 30	40.1 30	42.7 29	50.6 30	63.3 33	65.5 30	80.6 32	88.6 32	107.0 32
1940	26.0 14	30.3 19	31.7 16	36.6 22	45.9 27	52.9 27	65.5 31	64.0 24	72.1 22	90.9 22
1941	5.7 2	23.0 7	25.1 6	27.7 6	28.3 5	30.3 5	34.4 5	37.7 5	41.2 4	61.8 4
1942	8.4 3	25.1 9	29.7 15	33.1 17	34.7 13	42.8 19	46.7 17	54.6 19	55.6 15	74.8 17
1943	26.0 15	26.7 13	27.3 10	28.4 8	30.0 7	33.8 6	39.0 8	49.2 13	57.5 17	81.9 18
1944	27.0 16	27.3 15	28.7 14	31.4 14	35.0 15	46.3 23	48.4 18	54.0 17	62.7 19	93.7 25
1945	33.0 25	33.7 25	34.6 24	35.1 20	39.6 21	41.5 16	44.3 15	52.5 16	55.6 16	80.0 16
1946	29.0 20	29.7 17	31.9 17	34.4 18	37.9 19	38.9 13	39.9 10	40.6 8	51.9 10	68.5 7
1947	32.0 23	32.0 21	32.1 18	33.1 15	35.0 16	35.3 8	36.9 6	39.9 6	51.2 9	88.7 19
1948	51.0 36	52.3 35	55.1 35	57.6 35	60.6 35	65.1 34	73.7 35	92.9 34	102.0 34	133.0 36
1949	33.0 26	35.7 26	36.1 26	36.9 24	40.7 23	44.0 20	50.4 20	55.0 20	60.5 18	76.0 13
1950	27.0 17	27.0 14	27.6 12	30.5 11	32.4 9	35.3 9	38.1 7	40.2 7	44.0 5	64.9 5
1951	22.0 9	22.7 5	23.1 4	23.8 4	24.1 3	27.4 3	32.1 4	37.5 4	46.8 7	79.3 15
1952	32.0 24	32.7 22	34.4 23	35.2 21	38.1 20	45.5 22	52.6 23	69.6 26	77.6 29	112.0 33
1953	30.0 21	31.0 20	32.3 19	34.4 19	36.3 18	38.0 12	50.0 19	54.5 18	72.4 23	88.9 20
1954	22.0 10	22.3 4	23.1 5	31.3 13	35.2 17	37.3 11	41.0 11	50.3 15	53.6 13	74.4 9
1955	4.4 1	22.8 6	27.3 11	27.7 7	30.6 8	41.6 17	45.3 16	49.8 14	53.7 14	66.2 6
1956	38.0 33	41.3 31	42.4 31	45.6 32	53.9 32	62.5 31	67.8 32	69.8 27	74.5 26	89.4 21
1957	19.0 7	19.0 3	19.4 3	20.6 2	22.2 2	23.9 1	27.4 1	29.1 2	34.3 2	75.9 11
1958	35.0 30	53.3 36	67.0 36	72.4 36	87.0 36	88.7 36	90.3 36	95.2 35	113.0 36	128.0 35
1959	34.0 27	37.3 29	38.1 27	39.3 26	43.5 25	57.8 28	69.7 33	83.5 33	90.7 33	102.0 30
1960	32.0 22	32.7 23	33.0 20	37.1 25	41.4 24	49.1 25	58.3 24	66.4 25	76.7 28	94.6 26
1961	45.0 35	46.3 33	49.3 33	53.7 33	59.4 34	67.1 35	73.2 34	73.8 30	75.9 27	99.0 29
1962	35.0 28	36.0 27	38.7 29	41.2 28	50.8 31	63.3 32	63.4 26	73.8 31	80.3 31	93.1 24
1963	25.0 12	25.3 10	26.0 7	30.1 10	34.8 14	40.0 15	42.4 13	43.6 10	49.2 8	74.1 8
1964	22.0 8	25.3 11	26.0 8	27.0 5	29.5 6	34.0 7	43.4 14	45.0 12	52.3 11	76.0 12
1965	16.0 6	16.7 2	18.6 2	22.1 3	26.5 4	28.1 4	28.4 3	28.6 1	29.6 1	44.6 1
1966	10.0 4	13.3 1	13.9 1	15.7 1	20.5 1	26.6 2	27.5 2	31.1 3	40.2 3	60.7 2
MEAN	27.542	31.317	33.364	36.133	40.247	45.661	50.919	57.539	64.917	86.455
VARIANCE	110.281	86.025	110.323	122.298	167.977	196.630	226.805	349.607	400.688	380.312
STD DEV	10.501	9.275	10.503	11.059	12.961	14.022	15.060	18.698	20.017	19.502
SKEWNESS	-.387	.584	1.078	1.146	1.416	.888	.461	.550	.595	.440
SE OF SKEW	.393	.393	.393	.393	.393	.393	.393	.393	.393	.393
SER CORR	.280	.221	.125	.061	.028	.108	.179	.211	.229	.276
C OF VAR	.381	.296	.315	.306	.322	.307	.296	.325	.308	.226

LOGS

MEAN OF	1.393	1.477	1.503	1.539	1.585	1.641	1.688	1.738	1.792	1.926
VAR OF	.056	.017	.018	.017	.017	.017	.017	.020	.018	.010
STD DEV OF	.236	.131	.134	.129	.131	.130	.130	.143	.136	.100
SKEW OF	-1.756	-.326	-.133	-.054	.277	.113	-.140	-.101	-.175	-.292
SE OF SKEW OF	.393	.393	.393	.393	.393	.393	.393	.393	.393	.393
SER CORR OF	.244	.303	.215	.137	.078	.108	.181	.217	.235	.336
C OF VAR OF	.170	.089	.089	.084	.082	.079	.077	.082	.076	.052

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	3.729	13.807	15.080	17.143	20.328	22.363	23.512	24.849	28.818	47.121
20.00	8.424	17.754	18.960	21.143	24.048	27.002	29.411	31.549	36.542	56.798
10.00	12.043	20.165	21.365	23.619	26.430	29.919	33.047	35.755	41.325	62.465
5.00	17.338	23.385	24.628	26.983	29.773	33.941	37.961	41.523	47.804	69.800
2.00	28.693	30.486	32.082	34.709	37.939	43.464	49.113	54.946	62.536	85.261
1.25	38.225	38.831	41.392	44.478	49.303	56.100	62.915	72.147	80.766	102.515
1.11	41.540	43.672	47.108	50.558	56.994	64.312	71.333	82.929	91.856	112.194
1.04	43.790	49.176	53.924	57.895	66.934	74.580	81.316	95.985	104.970	122.968
1.02	44.672	52.907	58.752	63.153	74.514	82.178	88.356	105.360	114.188	130.155
1.01	45.184	56.372	63.397	68.261	82.253	89.754	95.109	114.477	123.003	136.758

1-4100.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

OSWEGO RIVER AT HARRISVILLE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1931	170.0 36	158.0 35	143.0 34	119.0 34	93.4 36	79.5 36	74.0 36	69.9 36	64.7 36	54.6 36
1932	298.0 25	286.0 22	235.0 16	188.0 18	174.0 13	127.0 21	111.0 24	98.5 29	88.0 30	64.8 32
1933	823.0 2	757.0 2	573.0 1	390.0 1	250.0 1	162.0 10	126.0 15	114.0 20	114.0 11	101.0 11
1934	345.0 13	300.0 14	227.0 22	162.0 23	134.0 24	123.0 22	117.0 21	106.0 22	96.0 23	85.1 19
1935	487.0 5	415.0 6	313.0 7	197.0 14	156.0 18	135.0 16	126.0 16	120.0 16	105.0 19	87.4 17
1936	372.0 9	346.0 9	285.0 9	241.0 7	204.0 7	178.0 4	170.0 4	158.0 4	142.0 4	104.0 8
1937	330.0 17	281.0 24	230.0 21	193.0 17	176.0 11	165.0 8	149.0 10	139.0 9	125.0 9	94.7 12
1938	813.0 3	715.0 3	476.0 3	321.0 3	222.0 4	157.0 11	153.0 9	134.0 10	110.0 15	107.0 6
1939	1220.0 1	951.0 1	567.0 2	380.0 2	244.0 2	195.0 2	190.0 2	170.0 2	147.0 3	127.0 1
1940	234.0 30	224.0 27	194.0 27	162.0 24	133.0 25	128.0 20	123.0 17	122.0 14	106.0 18	93.1 15
1941	344.0 15	294.0 17	232.0 20	155.0 25	121.0 30	117.0 26	111.0 25	103.0 24	95.6 24	76.8 26
1942	200.0 33	150.0 36	138.0 35	127.0 32	117.0 32	104.0 32	93.4 33	83.0 34	72.2 35	61.0 35
1943	187.0 34	173.0 34	150.0 32	135.0 31	118.0 31	111.0 30	107.0 28	103.0 25	95.6 25	75.6 27
1944	358.0 11	333.0 11	268.0 13	214.0 12	160.0 17	155.0 12	134.0 11	127.0 12	114.0 12	91.1 16
1945	345.0 14	325.0 12	279.0 10	224.0 10	170.0 14	138.0 15	120.0 20	119.0 17	108.0 17	85.6 18
1946	307.0 22	300.0 15	251.0 15	196.0 15	149.0 19	131.0 19	121.0 19	115.0 19	103.0 20	82.9 20
1947	228.0 31	211.0 30	182.0 29	153.0 29	146.0 20	121.0 23	108.0 26	102.0 26	94.3 26	68.0 29
1948	465.0 6	435.0 5	333.0 5	236.0 8	214.0 5	170.0 5	154.0 8	148.0 7	138.0 7	109.0 3
1949	303.0 21	268.0 20	279.0 11	244.0 6	204.0 8	182.0 3	173.0 3	167.0 3	151.0 2	107.0 4
1950	184.0 35	174.0 33	148.0 33	119.0 35	99.6 35	93.9 34	86.8 35	81.8 35	79.2 34	63.4 34
1951	238.0 29	227.0 26	202.0 25	155.0 26	129.0 27	121.0 24	107.0 27	99.4 28	92.5 29	67.9 30
1952	440.0 7	391.0 8	313.0 8	222.0 11	176.0 12	165.0 9	161.0 5	149.0 5	139.0 5	107.0 5
1953	326.0 18	319.0 13	279.0 12	227.0 9	182.0 9	170.0 6	155.0 6	148.0 6	139.0 6	102.0 10
1954	336.0 16	294.0 18	233.0 17	155.0 27	131.0 26	115.0 27	103.0 29	96.4 30	94.2 27	77.9 22
1955	246.0 28	222.0 29	171.0 30	114.0 36	107.0 33	93.0 35	90.0 34	90.0 33	85.4 31	67.9 31
1956	321.0 19	284.0 23	196.0 26	154.0 28	143.0 21	121.0 25	113.0 27	104.0 23	92.9 28	77.6 23
1957	212.0 32	194.0 31	167.0 31	144.0 30	126.0 29	113.0 29	111.0 23	107.0 21	101.0 21	71.1 28
1958	517.0 4	475.0 4	348.0 4	263.0 5	224.0 3	206.0 1	198.0 1	183.0 1	162.0 1	125.0 2
1959	439.0 8	402.0 7	314.0 6	279.0 4	210.0 6	151.0 13	132.0 12	127.0 15	114.0 13	106.0 7
1960	370.0 10	287.0 21	215.0 24	163.0 22	143.0 22	133.0 17	123.0 18	119.0 18	111.0 14	93.4 14
1961	312.0 20	295.0 16	232.0 18	199.0 13	180.0 10	169.0 7	154.0 7	142.0 8	130.0 8	103.0 9
1962	351.0 12	334.0 10	255.0 14	194.0 16	166.0 16	148.0 14	127.0 14	125.0 13	109.0 16	93.8 13
1963	263.0 26	223.0 28	187.0 28	164.0 20	137.0 23	114.0 28	103.0 30	101.0 27	98.8 22	77.2 24
1964	304.0 23	289.0 19	232.0 19	175.0 19	167.0 15	132.0 18	128.0 13	130.0 11	115.0 10	82.0 21
1965	147.0 37	141.0 37	136.0 36	122.0 34	104.0 34	98.7 33	96.6 32	91.2 32	82.7 33	63.6 33
1966	246.0 27	196.0 32	128.0 37	98.8 37	90.5 37	68.2 37	60.1 37	58.4 37	49.8 37	41.4 37
1967	303.0 24	275.0 25	219.0 23	163.0 21	128.0 28	105.0 31	101.0 31	92.1 31	85.0 32	77.2 25
MEAN	361.865	323.486	252.162	193.184	157.581	135.008	124.592	117.235	106.754	85.759
VARIANCE	42227.082	28459.617	10980.602	4618.453	1806.234	1039.592	941.337	791.731	613.142	377.478
STD DEV	205.492	168.700	104.788	67.959	42.500	32.243	30.681	28.138	24.762	19.429
SKEWNESS	2.647	2.217	1.703	1.316	.469	.179	.452	.341	.205	.053
SE OF SKEW	.388	.388	.388	.388	.388	.388	.388	.388	.388	.388
SER CORR	.223	.216	.193	.218	.249	.268	.268	.268	.270	.351
C OF VAR	.568	.522	.416	.352	.270	.239	.246	.240	.232	.227

LOGS

MEAN OF	2.512	2.467	2.372	2.263	2.182	2.118	2.082	2.057	2.016	1.922
VAR OF	.036	.034	.025	.020	.014	.012	.012	.011	.011	.011
STD DEV OF	.190	.184	.159	.140	.117	.108	.109	.107	.106	.104
SKEW OF	.939	.768	.577	.446	-.019	-.433	-.337	-.366	-.613	-.610
SE OF SKEW OF	.388	.388	.388	.388	.388	.388	.388	.388	.388	.388
SER CORR OF	.200	.206	.228	.266	.269	.310	.302	.312	.315	.357
C OF VAR OF	.075	.075	.067	.062	.054	.051	.052	.052	.052	.054

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	159.578	139.230	117.643	96.103	80.850	68.034	63.340	60.087	52.968	43.110
1.05	181.363	161.977	137.760	112.468	97.415	84.687	78.154	74.098	66.988	54.284
1.11	197.853	178.460	151.561	123.298	107.555	94.469	86.921	82.351	75.126	60.751
1.25	224.186	203.994	172.036	138.900	121.221	107.115	98.347	93.060	85.494	68.974
2.00	304.155	278.047	227.194	178.846	152.247	133.508	122.621	115.628	106.445	85.548
5.00	454.204	409.137	315.293	238.250	190.985	162.232	149.864	140.640	127.955	102.521
10.00	583.750	517.213	382.039	280.706	214.909	177.894	165.159	154.528	139.035	111.252
25.00	788.345	681.366	476.526	338.027	243.645	194.885	182.159	169.828	150.492	120.274
50.00	975.183	826.032	554.677	383.478	264.169	205.939	193.471	179.929	157.613	125.881
100.00	1195.921	991.987	639.824	431.348	284.066	215.886	203.838	189.128	163.788	130.742

1-4100.00 OSWEGO RIVER AT HARRISVILLE, N. J.

STATISTICS OF MONTHLY MEANS, 1931-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1931-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	65.67	29.15	1.654	.4439	6.374	.543	1.781	.1766	.2747	.0992	7.846	.585
NOV	82.84	29.21	.2077	.3527	8.041	.520	1.889	.1663	-.5120	.0880	8.322	.582
DEC	82.20	27.44	.3397	.3338	7.979	.418	1.889	.1578	-.7044	.0836	8.321	.578
JAN	99.37	35.16	.7297	.3539	9.646	.600	1.970	.1608	-.5143	.0816	8.677	.697
FEB	106.1	32.89	1.180	.3100	10.30	.620	2.007	.1287	.1234	.0641	8.840	.610
MAR	120.4	32.42	.9719	.2693	11.69	.516	2.066	.1131	.1060	.0547	9.101	.506
APR	108.3	32.09	.3920	.2962	10.52	.779	2.015	.1341	-.4420	.0665	8.878	.765
MAY	90.78	35.05	1.365	.3861	8.812	.609	1.931	.1524	.4872	.0789	8.505	.624
JUN	68.03	23.76	.9373	.3492	6.604	.582	1.809	.1444	.2958	.0799	7.968	.538
JUL	64.99	37.29	2.478	.5738	6.308	.204	1.765	.1914	.9850	.1084	7.777	.368
AUG	75.99	46.95	1.444	.6178	7.376	.315	1.812	.2418	.3789	.1335	7.982	.491
SEP	65.50	32.45	.9804	.4955	6.358	.435	1.767	.2107	.1129	.1193	7.782	.538

1-4110.00 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.

Location.--Lat 39°35'42", long 74°51'06", 25 ft upstream from bridge on State Highway 54.

Drainage area.--56.3 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1927						5	16	30	45	18	30	52	46	31	17	19	19	11	4	17	5														24790.0			
1928						5	11			6	30	47	39	38	47	33	32	10	40	22	6														35349.0			
1929						1	17	25	32	7	33	34	37	31	30	34	23	20	2	10	8	13	5	3											29287.0			
1930						10	15	37	13	10	31	13	35	46	44	30	20	17	17	18	2	7													22497.0			
1931						10	24	16	39	45	20	49	47	49	21	20	9	5	4	2	5														16209.0			
1932						13	27	48	38	26	37	21	29	22	32	9	13	10	5	16	3	8	3	2	4										20519.0			
1933						5	5	4	11	21	11	16	21	27	30	30	32	26	40	15	41	18	7	3		1		2			1	1	2		36733.0			
1934										4	15	33	54	42	30	28	45	26	36	15	14	16	5	2										32777.0				
1935										1	18	24	8	10	22	48	34	41	39	34	36	10	11	9	3	4	5	4		1		2	1		34804.0			
1936										21	15	17	18	9	28	21	21	19	10	37	26	18	10	25	14	20	12	10		2	1				37817.0			
1937						1	17	20	20	11	15	28	28	25	16	13	34	24	19	41	16	19	10	5	3										29295.0			
1938						5		4	12	16	27	32	84	36	42	22	16	16	10	8	7	4	3	3	1	1	4		5	2	2		2	1		36078.0		
1939								8	11	14	12	18	15	10	25	30	29	48	23	24	21	14	21	19	11	4	4	1	1	1	1				47275.0			
1940						1	3	6	9	21	50	37	36	27	25	36	16	25	8	15	10	12	5	7	5	4	1	3	1		1		1	2		38115.0		
1941						4	12	10	15	9	13	26	22	40	20	35	41	25	40	11	22	13	3	4												31598.0		
1942						3	21	23	47	40	45	36	34	26	17	17	18	12	25	1																21307.0		
1943						5	17	26	10	16	12	22	22	29	43	44	36	26	15	20	6	9	3	4												25541.0		
1944						1	6	47	22	13	12	35	17	24	38	17	23	13	19	10	17	14	5	4	5											28019.0		
1945										7	21	56	31	29	25	43	35	45	19	26	5	9	8	2	4											28659.0		
1946											10	18	20	17	30	44	38	50	25	37	14	20	12	10	7	4	3	2	2	2						37359.0		
1947										2	18	19	38	53	16	18	34	45	47	15	30	13	11	5	1											28456.0		
1948											16	18	12	13	10	32	32	15	25	49	27	37	14	25	16	13	6	8		1	1	1				36033.0		
1949											11	13	15	30	34	16	14	10	17	14	19	19	23	13	31	29	23	4	5	4	2	1				15800.0		
1950											14	15	24	34	16	39	50	52	31	31	26	13	11	3	2	7	1	1								23780.0		
1951																																					27594.0	
1952											2	20	25	26	24	23	12	12	29	30	42	42	29	19	7	10	5	3	3	2							42766.0	
1953											4	3		3	18	16	28	31	26	12	25	21	60	24	29	16	10	11	5	7	4	3	5	2			39243.0	
1954											18	11	10	39	30	14	11	5	10	29	13	61	17	33	19	13	17	8	2	3	2						25414.0	
1955											6	11	6	23	42	10	12	12	9	40	43	42	42	14	30	8	2	2	2								24387.0	
1956											5	5	10	4	24	33	34	27	33	27	23	32	33	26	4	29	6	4	3	1		2						29516.0
1957																																					26592.0	
1958																																					46695.0	
1959																																					32915.0	
1960																																					30719.0	
1961																																						37689.0
1962																																						29536.0
1963																																						27402.0
1964																																						28908.0
1965																																						22044.0
1966																																						16398.0
1967																																						34877.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	3	14975	100.0	9	40.00	907	12877	86.0	18	110.0	1224	3324	22.2	27	310	26	84	.5
1	16.00	19	14972	100.0	10	45.00	822	11970	79.9	19	130.0	400	2100	14.0	28	350	18	58	.3
2	18.00	29	14953	99.9	11	50.00	1055	11148	74.4	20	140.0	614	1700	11.4	29	390	14	40	.2
3	20.00	95	14924	99.7	12	56.00	1010	10993	67.4	21	160.0	373	1086	7.3	30	440	6	26	.1
4	23.00	117	14829	99.0	13	63.00	1263	9083	60.7	22	180.0	232	713	4.8	31	490	7	20	.1
5	25.00	173	14712	98.2	14	71.00	1185	7820	52.2	23	200.0	157	481	3.2	32	550	6	13	.0
6	28.00	545	14539	97.1	15	79.00	1217	6635	44.3	24	220.0	133	324	2.2	33	620	4	7	.0
7	32.00	527	13994	93.4	16	89.00	1294	5418	36.2	25	250.0	76	191	1.3	34	700	3	3	.0
8	36.00	590	13467	89.9	17	100.00	800	4124	27.5	26	280.0	31	115	0.8					

1-4110.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

GREAT EGG HARBOR RIVER AT FOLSOM, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1926	28.0 18	28.7 18	30.6 20	33.6 23	36.8 23	40.5 21	41.8 18	43.6 17	47.9 13	65.6 5
1927	30.0 21	30.0 21	31.1 21	31.6 17	35.4 22	39.7 20	46.4 24	51.7 24	59.9 24	78.9 20
1928	38.0 34	38.7 34	40.0 34	50.7 39	59.3 40	61.9 40	65.8 37	72.0 36	81.0 34	92.5 30
1929	30.0 22	31.3 23	33.7 25	34.6 24	36.9 24	46.0 26	44.4 21	48.8 22	56.9 23	76.2 17
1930	21.0 8	23.0 8	23.1 8	24.3 8	26.5 9	27.6 5	27.6 4	28.6 3	32.2 2	43.6 1
1931	21.0 5	21.7 7	22.3 6	22.9 6	25.9 7	28.9 8	29.2 5	31.4 5	33.9 3	50.3 3
1932	24.0 9	24.0 9	24.0 9	24.7 9	25.6 6	28.7 7	32.2 7	35.4 6	45.1 9	77.1 18
1933	36.0 32	36.7 32	38.0 31	40.4 31	49.0 35	58.7 38	61.5 35	70.1 35	83.4 37	94.6 33
1934	41.0 38	42.7 38	46.1 40	52.1 40	57.4 39	60.4 39	71.8 39	76.5 37	84.4 38	98.2 34
1935	35.0 29	36.0 29	38.4 32	38.9 29	39.7 26	46.3 27	53.8 28	59.6 29	74.6 32	111.0 36
1936	24.0 19	28.0 16	28.6 15	30.8 15	33.1 16	35.2 13	40.9 16	46.0 19	52.3 18	83.0 23
1937	24.0 10	24.7 12	25.3 11	26.6 11	27.7 10	35.2 14	34.7 10	38.6 9	51.5 16	66.4 6
1938	42.0 39	43.0 39	45.3 39	49.3 38	52.2 38	55.7 35	67.2 38	99.8 41	116.0 41	134.0 41
1939	36.0 30	36.0 30	37.6 30	40.8 38	44.2 38	56.9 36	60.3 34	64.5 33	69.0 30	93.1 31
1940	30.0 23	31.3 24	34.7 27	38.6 28	45.0 31	52.4 32	73.5 40	99.4 40	102.0 39	119.0 39
1941	26.0 14	27.0 14	27.3 13	27.7 13	29.0 14	30.8 10	34.7 11	36.6 8	43.4 7	63.3 4
1942	31.0 26	32.3 26	36.1 26	36.1 26	38.1 25	43.1 23	45.5 23	48.0 21	45.5 16	66.4 6
1943	24.0 11	24.0 10	24.6 10	24.9 10	26.3 8	28.2 6	31.1 6	38.8 10	52.2 17	73.0 14
1944	24.0 12	24.7 11	25.7 12	27.4 12	28.5 12	34.2 11	36.6 12	42.2 16	47.0 10	76.0 16
1945	39.0 35	39.3 36	42.1 36	45.4 36	47.0 33	51.2 31	57.4 32	66.6 34	66.3 28	88.7 27
1946	40.0 37	40.7 37	42.7 37	45.2 35	49.5 36	52.5 33	54.9 30	56.7 27	70.9 31	90.2 29
1947	32.0 27	32.7 27	32.9 23	33.1 21	35.0 20	39.1 19	43.9 20	45.9 18	55.1 19	82.1 22
1948	36.0 31	36.0 31	37.4 29	39.3 30	41.6 28	45.0 25	50.9 26	63.0 32	76.3 33	117.0 37
1949	29.0 15	29.0 19	30.3 19	33.6 22	34.0 18	37.0 16	41.8 17	42.1 13	48.1 14	76.8 10
1950	24.0 16	28.7 17	30.1 17	31.9 18	33.0 15	37.9 18	37.9 13	40.3 11	47.5 12	71.0 11
1951	26.0 13	26.7 13	27.4 14	27.8 14	29.0 13	36.2 15	38.2 14	42.1 14	55.2 20	93.1 32
1952	44.0 43	44.0 40	45.1 38	46.1 37	47.2 34	52.9 34	60.0 33	76.7 38	82.6 36	117.0 38
1953	30.0 24	30.0 22	31.1 22	32.6 19	33.2 17	34.9 12	43.3 19	47.4 20	63.1 26	89.3 28
1954	21.0 6	21.3 5	22.0 5	22.7 3	25.5 5	29.2 9	33.9 9	40.6 17	44.6 8	66.8 7
1955	21.0 7	21.3 6	22.7 7	23.9 7	27.8 11	41.3 22	44.8 22	50.5 23	55.8 21	71.7 12
1956	37.0 36	39.0 35	40.0 35	42.3 34	42.9 29	48.1 29	55.2 31	61.8 30	67.4 29	88.6 26
1957	16.0 2	16.7 2	17.7 2	18.2 2	19.3 2	21.0 2	24.7 2	26.8 1	34.5 4	78.8 19
1958	61.0 41	63.3 41	69.7 41	74.4 41	81.4 41	91.4 41	93.6 41	97.1 39	106.0 40	125.0 40
1959	31.0 25	31.7 25	33.1 24	34.7 25	40.7 27	46.4 28	54.4 29	59.6 28	61.5 25	79.3 21
1960	29.0 20	29.0 20	29.6 16	31.6 16	35.0 19	44.2 24	50.3 25	56.1 26	81.8 35	103.0 35
1961	35.0 28	35.3 28	36.0 28	36.6 27	45.0 32	48.9 30	51.9 27	53.0 25	56.5 22	83.6 24
1962	34.0 33	38.0 33	38.9 33	40.7 32	49.5 37	57.5 37	62.6 36	67.3 31	65.6 27	87.0 25
1963	29.0 17	28.0 15	30.3 18	32.6 20	35.4 21	37.1 17	38.4 15	42.2 15	47.1 11	75.4 15
1964	20.0 3	20.0 3	21.3 3	22.9 4	23.9 4	27.1 4	33.4 8	35.6 7	38.9 5	67.9 9
1965	20.0 4	20.7 4	21.9 4	22.9 5	23.5 3	25.5 3	26.8 3	27.6 2	30.8 1	46.7 2
1966	15.0 1	15.0 1	15.6 1	16.3 1	18.0 1	19.6 1	22.1 1	30.8 4	42.7 6	66.9 8
MEAN	30.439	30.980	32.400	34.410	37.415	42.302	46.815	52.595	60.471	83.619
VARIANCE	76.952	80.909	96.271	119.681	152.621	186.695	231.450	349.316	400.620	412.290
STD DEV	8.772	8.995	9.812	10.940	12.354	13.664	15.213	18.690	20.015	20.305
SKWENESS	.944	1.042	1.283	1.223	1.187	1.064	.764	1.001	.895	.497
SE OF SKEW	.369	.369	.369	.369	.369	.369	.369	.369	.369	.369
SER CORR	-.005	.003	-.005	-.015	.035	.070	.128	.062	.096	.208
C OF VAR	.288	.290	.303	.318	.330	.323	.325	.355	.331	.243
LOGS										
MEAN OF	1.466	1.474	1.492	1.517	1.552	1.605	1.648	1.696	1.760	1.910
VAR OF	.015	.015	.016	.018	.019	.019	.020	.022	.019	.011
STD DEV OF	.124	.124	.126	.133	.137	.138	.141	.147	.139	.107
SKEW OF	-.098	-.072	.049	.078	.131	-.073	-.056	.229	.136	-.283
SE OF SKEW OF	.369	.369	.369	.369	.369	.369	.369	.369	.369	.369
SER CORR OF	.063	.076	.067	.054	.097	.132	.193	.133	.191	.302
C OF VAR OF	.084	.084	.085	.087	.088	.086	.085	.087	.079	.056

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	14.785	15.118	15.956	16.439	17.601	18.929	20.689	23.897	28.151	43.505
20.00	18.179	18.529	19.334	20.027	21.432	23.747	26.006	29.091	34.352	53.133
10.00	20.260	20.625	21.436	22.283	23.864	26.759	29.344	32.456	38.300	58.832
5.00	23.063	23.455	24.310	25.391	27.247	30.879	33.928	37.220	43.802	66.274
2.00	29.402	29.883	31.005	32.737	35.369	40.441	44.640	49.033	57.068	82.172
1.25	37.239	37.890	39.676	42.443	46.361	52.677	58.482	65.786	75.116	100.222
1.11	42.025	42.814	45.195	48.723	53.616	60.354	67.235	77.284	87.080	110.477
1.04	47.716	48.703	51.983	56.544	62.797	69.663	77.919	92.294	102.269	121.995
1.02	51.741	52.890	56.933	62.311	69.662	76.360	85.648	103.836	113.661	129.736
1.01	55.611	56.933	61.811	68.041	76.563	82.884	93.209	115.693	125.136	136.888

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

GREAT EGG HARBOR RIVER AT FOLSOM, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1927	160.0 36	160.0 36	147.0 36	133.0 33	104.0 37	89.4 39	90.4 37	85.7 37	80.6 36	67.9 33
1928	188.0 34	188.0 33	183.0 28	160.0 25	135.0 26	117.0 27	116.0 22	109.0 22	102.0 23	96.6 13
1929	229.0 23	224.0 22	214.0 18	192.0 15	158.0 15	138.0 17	131.0 12	121.0 15	107.0 19	80.2 23
1930	153.0 37	153.0 37	137.0 37	121.0 37	117.0 32	101.0 33	91.1 36	85.2 38	80.2 37	61.6 36
1931	127.0 41	124.0 41	114.0 41	94.7 41	76.9 41	67.3 41	61.8 41	58.5 41	54.3 41	44.4 41
1932	216.0 27	214.0 24	199.0 22	171.0 19	143.0 22	109.0 30	95.1 33	88.0 36	79.2 38	56.1 39
1933	695.0 3	651.0 3	481.0 3	313.0 2	221.0 4	145.0 12	127.0 17	116.0 18	111.0 15	101.0 9
1934	293.0 30	200.0 30	181.0 29	156.0 26	132.0 27	121.0 26	115.0 23	103.0 28	98.6 28	88.4 17
1935	572.0 5	536.0 4	382.0 4	233.0 8	158.0 16	143.0 15	133.0 11	124.0 13	110.0 16	95.4 15
1936	368.0 11	345.0 10	291.0 10	244.0 7	207.0 6	180.0 4	181.0 3	170.0 3	151.0 4	103.0 7
1937	206.0 29	203.0 29	188.0 25	164.0 22	148.0 19	133.0 18	126.0 14	123.0 14	115.0 13	80.3 22
1938	707.0 2	661.0 2	486.0 2	287.0 3	210.0 5	172.0 8	165.0 8	143.0 9	116.0 12	98.8 10
1939	517.0 7	457.0 7	370.0 8	281.0 4	228.0 2	211.0 2	206.0 1	184.0 2	162.0 2	130.0 1
1940	330.0 1	928.0 1	580.0 1	351.0 1	221.0 3	178.0 6	157.0 9	148.0 8	132.0 8	104.0 5
1941	229.0 28	207.0 28	196.0 23	169.0 20	136.0 24	127.0 20	121.0 19	118.0 16	113.0 14	86.6 18
1942	131.0 40	127.0 40	118.0 40	115.0 38	109.0 34	97.5 36	91.5 35	82.5 39	72.7 39	58.4 38
1943	196.0 33	184.0 34	155.0 35	125.0 36	107.0 36	103.0 31	101.0 30	98.2 31	91.8 31	70.0 31
1944	242.0 21	232.0 20	207.0 20	178.0 18	148.0 20	145.0 13	124.0 15	116.0 17	101.0 24	76.6 27
1945	219.0 26	210.0 27	179.0 30	143.0 30	124.0 31	102.0 32	95.8 31	99.1 30	93.1 30	78.5 25
1946	342.0 10	339.0 11	282.0 11	214.0 13	161.0 14	143.0 14	130.0 13	125.0 12	120.0 10	102.0 8
1947	142.0 35	176.0 35	161.0 34	138.0 31	128.0 30	113.0 29	108.0 28	105.0 26	103.0 21	78.0 26
1948	366.0 12	332.0 12	257.0 14	189.0 16	186.0 11	153.0 10	145.0 10	141.0 10	131.0 9	98.5 11
1949	324.0 14	306.0 14	250.0 15	216.0 11	193.0 8	180.0 5	173.0 4	161.0 4	147.0 6	98.1 17
1950	201.0 31	191.0 31	167.0 32	130.0 34	108.0 35	97.6 35	90.0 38	88.8 34	81.0 35	65.2 35
1951	225.0 24	214.0 25	186.0 26	148.0 29	132.0 28	122.0 24	112.0 25	107.0 24	102.0 22	75.6 28
1952	455.0 8	430.0 8	337.0 7	228.0 10	179.0 12	170.0 9	167.0 5	155.0 7	155.0 3	117.0 3
1953	342.0 13	328.0 13	294.0 9	231.0 9	187.0 10	176.0 7	167.0 6	159.0 5	148.0 5	108.0 4
1954	198.0 32	190.0 32	163.0 33	133.0 32	110.0 33	98.6 34	93.4 34	91.2 33	90.6 32	69.6 32
1955	232.0 22	217.0 23	171.0 31	128.0 35	100.0 39	93.9 38	86.8 39	88.0 35	82.4 34	66.8 34
1956	243.0 20	227.0 21	193.0 24	164.0 23	143.0 23	127.0 21	120.0 20	109.0 23	99.5 25	80.6 21
1957	278.0 15	261.0 16	212.0 19	153.0 27	132.0 29	123.0 23	112.0 26	111.0 20	107.0 20	72.9 30
1958	563.0 6	503.0 6	364.0 6	280.0 5	231.0 1	217.0 1	205.0 2	189.0 1	163.0 1	128.0 2
1959	278.0 16	261.0 17	224.0 16	161.0 24	135.0 25	124.0 22	115.0 24	110.0 21	108.0 18	90.2 16
1960	593.0 4	532.0 5	378.0 5	254.0 6	163.0 13	116.0 28	107.0 29	103.0 29	95.8 29	83.9 19
1961	278.0 17	271.0 15	255.0 13	214.0 12	198.0 7	189.0 3	167.0 7	155.0 6	135.0 7	103.0 6
1962	249.0 19	240.0 19	202.0 21	168.0 21	154.0 17	145.0 11	122.0 18	113.0 19	99.4 27	80.9 20
1963	271.0 18	260.0 18	217.0 17	180.0 17	149.0 18	121.0 25	111.0 27	105.0 27	99.5 26	75.1 29
1964	222.0 25	211.0 26	185.0 27	148.0 28	147.0 21	130.0 19	124.0 16	127.0 11	116.0 11	79.0 24
1965	145.0 39	141.0 39	128.0 38	113.0 39	101.0 38	96.4 37	95.1 32	92.3 32	83.0 33	60.4 37
1966	153.0 38	145.0 38	128.0 39	104.0 40	95.7 40	74.6 40	71.5 40	69.8 40	59.8 40	44.9 40
1967	427.0 9	371.0 9	271.0 12	209.0 14	189.0 9	141.0 16	118.0 21	106.0 25	109.0 17	95.6 14
MEAN	323.049	296.341	238.488	183.749	151.332	132.446	123.500	116.666	107.451	84.173
VARIANCE	47750.324	28935.250	11187.426	3649.150	1632.583	1245.913	1137.832	898.361	687.697	398.407
STD DEV	218.518	170.104	105.771	60.408	40.405	35.297	33.732	29.973	26.224	19.960
SKEWNESS	2.626	1.879	1.491	.888	.386	.537	.750	.638	.405	.201
SE OF SKEW	.369	.369	.369	.369	.369	.369	.369	.369	.369	.369
SER CORR	.089	.099	.120	.217	.198	.224	.253	.269	.279	.277
C OF VAR	.676	.574	.444	.329	.267	.267	.273	.257	.244	.237

LOGS

MEAN OF	2.444	2.418	2.343	2.243	2.165	2.107	2.076	2.053	2.018	1.913
VAR OF	.051	.043	.029	.019	.014	.013	.014	.012	.012	.012
STD DEV OF	.225	.207	.171	.137	.117	.116	.116	.111	.108	.108
SKEW OF	.905	.760	.586	.255	-.118	-.106	.055	-.048	-.311	-.476
SE OF SKEW OF	.369	.369	.369	.369	.369	.369	.369	.369	.369	.369
SER CORR OF	.178	.189	.210	.240	.212	.241	.281	.310	.308	.314
C OF VAR OF	.092	.086	.073	.061	.054	.055	.056	.054	.054	.056

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	117.857	113.109	104.700	89.130	76.114	67.267	64.646	61.892	55.203	42.237
1.05	138.044	134.261	123.897	106.627	92.843	81.760	77.080	74.052	67.788	52.783
1.11	153.509	149.799	137.211	117.878	103.002	90.557	84.735	81.418	75.239	58.960
1.25	178.568	174.189	157.155	133.706	116.579	102.312	95.111	91.258	84.959	66.918
2.00	257.266	246.821	211.827	172.562	146.882	128.554	118.945	113.266	105.667	83.399
5.00	413.628	380.817	301.404	226.962	183.677	160.454	149.266	140.176	129.043	101.093
10.00	555.728	495.274	370.719	263.942	205.832	179.689	168.313	156.520	142.245	110.615
25.00	790.461	674.434	470.559	311.886	231.895	202.348	191.512	175.902	156.994	120.831
50.00	1013.710	836.648	554.421	348.541	250.159	218.248	208.294	189.593	166.858	127.409
100.00	1286.406	1026.854	646.922	386.036	267.597	233.445	224.730	202.752	175.932	133.278

1-4110.00 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.

STATISTICS OF MONTHLY MEANS, 1927-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1927-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	59.16	26.99	1.673	.4563	5.850	.646	1.736	.1724	.6134	.0993	7.700	.689
NOV	77.86	26.71	.3539	.3430	7.698	.387	1.864	.1610	-.5906	.0864	8.268	.488
DEC	86.00	26.62	.2122	.3095	8.504	.455	1.912	.1464	-.6969	.0766	8.481	.574
JAN	98.98	33.53	.9188	.3387	9.787	.610	1.972	.1460	-.1232	.0740	8.746	.682
FEB	106.0	32.65	1.506	.3080	10.48	.542	2.007	.1249	.2139	.0622	8.904	.564
MAR	122.4	34.47	1.129	.2817	12.10	.599	2.072	.1156	.2961	.0558	9.192	.601
APR	109.2	33.14	.6397	.3033	10.80	.818	2.019	.1308	.0241	.0648	8.956	.804
MAY	91.88	35.28	1.140	.3840	9.085	.667	1.935	.1566	.3125	.0809	8.582	.676
JUN	69.24	27.62	1.297	.3989	6.846	.680	1.811	.1555	.6352	.0858	8.034	.638
JUL	58.39	29.93	2.348	.5126	5.774	.427	1.724	.1856	.5677	.1076	7.648	.542
AUG	67.15	41.80	1.311	.6225	6.640	.578	1.754	.2528	.2339	.1441	7.779	.696
SEP	65.03	44.32	1.795	.6816	6.430	.445	1.738	.2455	.7004	.1413	7.709	.588

1-4115.00 MAURICE RIVER AT NORMA, N. J.

Location.--Lat 39°29'42", long 75°04'38", just upstream from Almond Road Bridge at Norma.

Drainage area.--113 sq mi.

Remarks.--Occasional regulation; probably not significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1933	1	3	1	2	1	3	6	10	9	28	29	31	34	37	45	54	40	26				1	2	2												77917.0	
1934							4	9	14	59	64	56	40	48	37	16	13	5																		60433.0	
1935						2	6	11	25	14	32	36	34	58	43	43	30	14	7	4	1	1	1	1	1	1	1									67777.0	
1936			1	2	14	15	11	17	20	45	25	26	23	21	31	30	26	29	15	10	3	2														74827.0	
1937					4	10	29	48	17	33	26	31	41	32	49	33	9	3																		57960.0	
1938					3	7	14	27	39	53	59	72	23	16	21	3	4	6	9	1	2	4	1	1												67570.0	
1939						2	4	18	18	24	18	10	41	59	34	27	27	30	35	13	4	1														88545.0	
1940						4	10	37	48	51	36	20	39	32	22	23	28	6	4	1		1			1						1			2		71313.0	
1941			3	6	5	11	13	8	23	14	32	29	30	67	51	39	26	8																		58057.0	
1942	1		6	4	4	14	38	45	53	36	44	35	22	26	32	3	2																			39457.0	
1943			2	1	22	20	12	12	22	26	18	33	20	70	43	29	31	4																		54400.0	
1944			2	2	7	22	19	22	30	17	43	31	37	32	19	27	34	15	3	4																55360.0	
1945							11	14	19	20	43	41	40	80	50	23	16	8																		57571.0	
1946										10	15	45	33	33	51	55	54	38	17	6	3	1	4													70993.0	
1947							13	19	37	54	43	34	26	70	50	13	5	1																		50562.0	
1948							1	18	12	10	12	40	48	23	35	42	42	34	29	10	5	4	1														69066.0
1949							2	16	19	24	38	34	37	5	17	15	32	22	56	35	10	2	1														72908.0
1950						6	1	20	25	30	46	69	42	42	55	15	6	3	5																	45714.0	
1951							1	18	14	48	28	27	28	39	55	49	25	18	7	6	2															56438.0	
1952							7		14	8	27	35	39	28	11	37	75	29	31	11	9	2	3													85046.0	
1953							1	4	22	12	21	45	23	10	28	23	54	50	30	21	12	2	2													74510.0	
1954							4	7	17	16	43	27	16	8	34	53	39	68	20	10	1	1	1													44390.0	
1955							2	2	14	7	36	28	47	20	37	45	39	50	21	7	4	3		3												44539.0	
1956										6	13	49	52	70	35	44	34	40	10	8	5															48713.0	
1957										3	16	31	14	19	18	48	66	40	21	5	2	2	2													47880.0	
1958							1	4	8	8	14	20	17	12	17	50	51	34	37	26	18	18	14	9	4			1	1	1						87755.0	
1959										2		2	22	15	24	21	30	93	68	52	23	6	1	5		1										66486.0	
1960											10	13	17	31	34	39	47	80	39	25	15	8	1	1	2		1			1	1	1				61597.0	
1961							1	5	6	10	12	23	20	33	58	52	31	36	29	25	14	9	1													79300.0	
1962										1	20	25	39	41	55	51	32	28	22	15	17	11	8													50795.0	
1963											1	15	33	8	33	26	28	51	70	47	21	12	8	4	4	4										43185.0	
1964											2	1	2	13	26	17	37	12	13	19	44	18	20	41	46	22	22	6	5							49735.0	
1965												17	28	19	48	27	14	21	20	50	50	36	28	7												34693.0	
1966																																					24593.0
1967																																					61671.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	12783	100.0	9	76.00	881	11063	86.5	18	290.0	477	1078	8.4	27	1100	2	6	.0
1	23.00	21	12783	100.0	10	89.00	830	10182	79.7	19	340.0	292	601	4.7	28	1300	1	4	.0
2	27.00	16	12762	99.8	11	100.00	1358	9352	73.2	20	400.0	154	309	2.4	29	1500	1	3	.0
3	31.00	85	12746	99.7	12	120.00	1240	7994	62.5	21	460.0	84	155	1.2	30	1800		2	.0
4	36.00	108	12661	99.0	13	140.00	1112	6754	52.8	22	540.0	32	71	0.6	31	2100		2	.0
5	42.00	219	12553	98.2	14	160.00	1662	5642	44.1	23	620.0	18	19	0.3	32	2400		2	.0
6	49.00	286	12334	96.5	15	190.00	1206	3980	31.1	24	720.0	7	21	0.2	33	2800		2	.0
7	57.00	475	12048	94.3	16	220.00	923	2774	21.7	25	840.0	4	14	0.1	34	3200	2	2	.0
8	66.00	510	11573	90.5	17	250.00	773	1951	14.5	26	980.0	4	10	0.1					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MAURICE RIVER AT NORMA, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1913	73.0 31	85.0 33	94.4 33	101.0 33	113.0 32	133.0 33	141.0 32	151.0 30	161.0 29	192.0 27
1934	71.0 29	72.3 28	78.6 28	86.4 31	114.0 33	123.0 32	145.0 33	145.0 29	148.0 26	185.0 25
1935	51.0 18	55.3 17	68.3 23	71.2 22	76.8 20	83.4 17	104.0 24	121.0 24	148.0 27	219.0 29
1936	41.0 10	48.7 11	52.3 12	55.6 11	60.4 11	67.3 10	81.4 13	90.3 13	97.0 11	159.0 18
1937	52.0 19	53.3 15	60.6 17	67.1 20	69.0 18	87.2 20	89.8 19	99.0 20	127.0 23	155.0 16
1938	54.0 23	60.0 23	70.0 25	84.7 27	100.0 31	103.0 28	123.0 28	167.0 33	201.0 33	244.0 33
1939	60.0 24	65.0 26	77.3 27	78.8 25	86.6 25	98.3 25	103.0 22	110.0 22	119.0 21	167.0 22
1940	60.0 25	63.0 24	67.4 22	70.4 21	78.7 22	97.8 24	134.0 31	163.0 32	197.0 32	228.0 31
1941	30.0 4	30.7 3	40.6 7	42.3 5	44.9 5	49.7 5	57.4 6	61.1 5	73.6 5	113.0 3
1942	48.0 14	52.3 13	57.6 15	66.6 18	77.0 21	84.0 18	85.8 17	96.1 17	98.4 13	141.0 12
1943	33.0 8	34.7 7	39.9 6	42.6 6	46.2 6	50.8 6	57.0 5	65.3 7	89.3 8	139.0 10
1944	43.0 11	49.3 12	50.7 11	52.6 10	54.3 9	69.1 11	81.3 12	90.2 12	98.1 12	154.0 15
1945	71.0 30	76.3 30	82.7 31	90.8 32	95.6 30	114.0 31	123.0 29	140.0 28	138.0 25	179.0 24
1946	79.0 32	79.7 31	81.9 30	85.6 29	90.2 27	94.1 22	96.7 20	99.0 21	121.0 22	161.0 20
1947	55.0 21	56.3 19	57.1 14	59.3 13	63.6 13	70.3 12	78.8 10	82.3 9	95.7 10	148.0 14
1948	69.0 28	73.7 29	79.6 29	84.7 28	92.8 28	99.1 27	106.0 25	132.0 27	160.0 28	235.0 32
1949	50.0 15	53.0 14	60.6 16	63.1 14	68.9 17	75.9 14	77.5 9	84.4 11	94.0 9	139.0 9
1950	45.0 12	46.7 10	48.7 10	63.6 15	67.8 15	84.2 19	88.3 18	96.6 18	104.0 15	145.0 13
1951	55.0 22	57.0 20	57.0 13	59.2 12	62.8 12	77.1 15	83.0 15	90.9 14	113.0 18	190.0 26
1952	80.0 33	81.0 32	83.6 32	86.4 30	94.0 29	107.0 30	123.0 30	152.0 31	165.0 30	222.0 30
1953	50.0 16	55.7 18	61.7 18	64.2 16	65.4 14	66.5 9	83.1 16	95.3 16	116.0 19	167.0 23
1954	31.0 6	33.0 6	36.7 5	43.6 7	47.6 7	52.2 7	58.1 7	72.1 8	77.7 7	114.0 4
1955	33.0 7	37.3 8	41.0 8	44.5 8	50.5 8	77.3 16	81.7 14	94.8 15	110.0 16	124.0 6
1956	63.0 27	68.3 27	76.9 26	82.0 26	83.9 23	97.7 23	104.0 23	111.0 23	119.0 20	156.0 17
1957	30.0 5	31.0 4	32.1 2	33.3 2	35.6 2	38.9 2	48.7 3	54.9 3	65.5 3	138.0 8
1958	96.0 34	117.0 34	147.0 34	157.0 34	174.0 34	177.0 34	180.0 34	188.0 34	207.0 34	247.0 34
1959	53.0 20	57.3 21	69.4 24	78.6 24	89.8 26	98.7 26	113.0 27	124.0 25	137.0 24	160.0 19
1960	62.0 26	64.0 25	64.0 20	66.8 19	75.7 19	105.0 29	108.0 26	125.0 26	174.0 31	214.0 28
1961	50.0 17	54.0 16	66.3 21	76.8 23	85.7 24	92.6 21	96.8 21	97.9 19	111.0 17	163.0 21
1962	47.0 13	60.0 22	62.4 19	65.8 17	68.3 16	75.8 13	81.2 11	84.1 10	98.6 14	139.0 9
1963	39.0 9	43.3 9	45.9 9	50.3 9	55.3 10	60.2 8	61.2 8	64.6 6	77.4 6	124.0 4
1964	23.0 1	26.0 2	33.1 3	37.2 4	40.0 4	44.6 4	54.7 4	58.0 4	67.8 4	115.0 5
1965	28.0 3	32.3 5	33.7 4	34.7 3	35.8 3	39.5 3	42.9 2	43.6 1	48.5 1	73.8 1
1966	23.0 2	23.0 1	23.4 1	24.0 1	29.0 1	32.2 1	35.4 1	45.2 2	63.1 2	108.0 2
MEAN	51.529	55.750	61.838	66.788	73.329	83.132	91.994	102.785	118.256	163.465
VARIANCE	307.892	383.223	533.163	609.638	796.518	888.368	1012.117	1322.750	1662.321	1800.492
STD DEV	17.547	19.576	23.090	24.691	28.223	29.805	31.814	36.370	40.772	42.432
SKEWNESS	.363	.736	1.348	1.267	1.276	.741	.536	.453	.548	.352
SE OF SKEW	.403	.403	.403	.403	.403	.403	.403	.403	.403	.403
SER CORR	.214	.115	.083	.079	.128	.154	.219	.150	.131	.187
C OF VAR	.341	.351	.373	.370	.385	.359	.346	.354	.345	.260

LOGS

MEAN OF	1.686	1.719	1.763	1.797	1.835	1.892	1.937	1.984	2.047	2.199
VAR OF	.025	.025	.026	.026	.027	.027	.025	.026	.023	.014
STD DEV OF	.157	.158	.160	.161	.165	.163	.158	.161	.153	.116
SKEW OF	-.409	-.379	-.229	-.348	-.164	-.458	-.450	-.323	-.215	-.396
SE OF SKEW OF	.403	.403	.403	.403	.403	.403	.403	.403	.403	.403
SER CORR OF	.310	.217	.210	.199	.226	.242	.310	.273	.261	.315
C OF VAR OF	.093	.092	.091	.090	.090	.086	.082	.081	.075	.053

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	18.817	20.313	23.116	24.028	27.081	28.690	32.937	37.408	46.422	78.46
20.00	25.758	27.745	30.887	32.837	36.073	40.124	45.527	50.835	61.120	98.88
10.00	30.146	32.455	35.847	38.447	41.859	47.412	53.494	59.385	70.419	111.05
5.00	36.136	38.904	42.709	46.167	49.934	57.408	64.363	71.159	83.207	126.97
2.00	49.727	53.635	58.791	63.968	69.182	80.161	88.928	98.383	112.920	160.85
1.25	66.088	71.572	79.333	85.968	94.455	107.477	118.208	132.246	150.530	198.73
1.11	75.666	82.187	92.068	99.160	110.512	123.359	135.164	152.689	173.720	219.83
1.04	86.567	94.377	107.289	114.474	130.095	141.295	154.272	176.564	201.351	243.10
1.02	93.940	102.692	118.066	125.022	144.216	153.328	167.075	193.105	220.874	258.46
1.01	100.765	110.440	128.415	134.927	157.979	164.385	178.832	208.710	239.599	272.42

1-4115.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MAURICE RIVER AT NORMA, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1913	828.0 6	764.0 6	598.0 6	455.0 6	356.0 9	294.0 10	276.0 9	269.0 8	245.0 10	213.0 5
1914	366.0 25	359.0 27	336.0 23	280.0 24	242.0 24	227.0 23	220.0 21	198.0 22	187.0 23	166.0 17
1915	1020.0 4	927.0 4	688.0 5	431.0 8	303.0 15	283.0 11	264.0 12	248.0 11	223.0 12	186.0 17
1916	715.0 8	592.0 8	534.0 7	438.0 7	391.0 5	369.0 4	363.0 3	345.0 3	298.0 4	204.0 6
1917	378.0 23	350.0 24	321.0 24	295.0 21	268.0 19	251.0 16	242.0 15	214.0 14	218.0 13	159.0 18
1918	1020.0 5	904.0 5	710.0 4	461.0 5	374.0 7	282.0 12	275.0 10	240.0 13	201.0 17	185.0 13
1919	628.0 9	562.0 10	513.0 8	483.0 4	424.0 3	409.0 2	403.0 1	361.0 1	316.0 1	243.0 1
1940	5260.0 1	3370.0 1	1800.0 1	1010.0 1	603.0 1	363.0 5	274.0 11	266.0 10	257.0 8	195.0 9
1941	338.0 27	331.0 26	312.0 26	286.0 22	248.0 23	229.0 22	225.0 19	216.0 17	206.0 14	159.0 19
1942	273.0 33	245.0 33	215.0 33	204.0 33	199.0 31	178.0 31	165.0 32	151.0 33	131.0 33	108.0 33
1943	325.0 30	307.0 29	289.0 29	269.0 28	223.0 29	222.0 24	216.0 27	214.0 18	201.0 18	149.0 23
1944	456.0 18	429.0 18	397.0 16	341.0 16	293.0 16	279.0 13	266.0 14	220.0 16	200.0 19	151.0 22
1945	329.0 29	313.0 27	296.0 27	243.0 29	236.0 25	197.0 29	194.0 27	192.0 27	186.0 24	158.0 20
1946	593.0 12	574.0 9	480.0 11	378.0 13	309.0 14	267.0 14	251.0 13	243.0 12	235.0 11	195.0 10
1947	307.0 32	285.0 32	271.0 31	242.0 31	226.0 28	211.0 26	198.0 26	193.0 26	182.0 27	139.0 24
1948	616.0 11	501.0 15	412.0 15	357.0 14	350.0 10	298.0 9	279.0 8	267.0 9	250.0 9	189.0 11
1949	559.0 14	497.0 16	455.0 13	420.0 10	384.0 6	357.0 6	342.0 5	325.0 4	297.0 5	200.0 8
1950	334.0 28	306.0 30	288.0 30	243.0 30	204.0 30	179.0 30	170.0 30	165.0 30	149.0 31	125.0 29
1951	420.0 20	385.0 20	349.0 22	307.0 18	268.0 20	245.0 18	227.0 17	213.0 20	205.0 16	155.0 21
1952	716.0 7	615.0 7	506.0 9	392.0 12	333.0 13	326.0 8	317.0 7	310.0 6	306.0 3	232.0 3
1953	553.0 15	535.0 12	480.0 12	414.0 11	361.0 8	338.0 7	320.0 6	304.0 7	279.0 7	204.0 7
1954	371.0 24	308.0 28	254.0 32	214.0 32	183.0 33	168.0 32	165.0 31	164.0 31	160.0 29	122.0 30
1955	538.0 17	507.0 14	385.0 17	287.0 23	197.0 32	166.0 33	157.0 33	153.0 32	143.0 32	122.0 31
1956	322.0 31	305.0 31	293.0 28	255.0 27	229.0 27	202.0 28	192.0 28	179.0 28	162.0 28	133.0 27
1957	452.0 19	416.0 19	363.0 19	267.0 26	234.0 26	217.0 25	201.0 24	198.0 23	190.0 22	131.0 28
1958	1146.0 3	1030.0 3	731.0 3	598.0 3	435.0 2	417.0 1	388.0 2	368.0 2	314.0 2	240.0 2
1959	590.0 13	438.0 17	383.0 18	300.0 19	261.0 21	242.0 19	224.0 20	214.0 19	206.0 15	182.0 14
1960	1330.0 2	1176.0 2	805.0 2	528.0 2	345.0 11	230.0 21	200.0 25	193.0 24	183.0 25	168.0 16
1961	590.0 16	417.0 13	499.0 10	421.0 9	397.0 4	384.0 3	348.0 4	322.0 5	282.0 6	217.0 4
1962	390.0 21	274.0 21	355.0 20	316.0 17	281.0 17	265.0 15	231.0 16	209.0 21	183.0 26	139.0 25
1963	380.0 22	306.0 22	349.0 21	299.0 20	251.0 22	204.0 27	181.0 29	169.0 29	156.0 30	118.0 32
1964	350.0 26	344.0 25	315.0 25	273.0 25	233.0 18	231.0 20	226.0 18	221.0 15	194.0 21	136.0 26
1965	299.0 35	207.0 34	195.0 34	176.0 34	161.0 34	154.0 34	151.0 34	144.0 34	130.0 34	95.0 34
1966	722.0 34	199.0 35	174.0 35	144.0 35	135.0 35	111.0 35	107.0 35	102.0 35	88.4 35	67.4 35
1967	624.0 10	555.0 11	422.0 14	357.0 15	338.0 12	250.0 17	209.0 23	193.0 25	197.0 20	169.0 15
MEAN	671.200	568.314	450.657	350.657	294.714	258.428	241.343	228.086	210.297	164.411
VARIANCE	707264.937	290855.750	78737.000	22566.027	8735.125	5683.289	4946.156	4070.947	3243.031	1741.781
STD DEV	840.990	539.310	280.601	150.220	93.462	75.388	70.329	63.804	56.948	41.735
SKWENESS	5.056	4.392	3.480	2.532	.998	.436	.606	.483	.261	-.052
SE OF SKW	.398	.398	.398	.398	.398	.398	.398	.398	.398	.398
SER CORR	-.037	-.041	.020	.145	.192	.187	.164	.171	.190	.297
C OF VAR	1.253	.949	.623	.428	.317	.292	.291	.280	.271	.254
LOGS										
MEAN OF	2.713	2.670	2.604	2.515	2.449	2.394	2.365	2.341	2.306	2.201
VAR OF	.069	.057	.038	.025	.018	.017	.016	.015	.015	.015
STD DEV OF	.262	.239	.195	.158	.135	.130	.127	.124	.124	.120
SKW OF	1.737	1.446	.981	.483	-.034	-.308	-.162	-.239	-.537	-.856
SE OF SKW OF	.398	.398	.398	.398	.398	.398	.398	.398	.398	.398
SER CORR OF	.074	.050	.141	.218	.221	.240	.233	.238	.237	.337
C OF VAR OF	.097	.089	.075	.063	.055	.054	.054	.053	.054	.055

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	262.896	230.137	195.748	159.899	135.396	115.319	113.175	107.785	93.563	70.492
1.05	275.555	248.362	221.782	189.794	168.146	147.565	141.198	134.962	121.891	95.060
1.11	289.563	265.344	241.781	209.994	188.603	167.251	158.378	151.462	138.859	109.571
1.25	318.102	296.461	274.059	239.615	216.508	193.533	181.483	173.442	161.028	128.123
2.00	438.399	411.573	373.745	317.860	281.740	251.542	233.462	221.980	207.732	165.121
5.00	766.652	686.309	565.014	439.511	365.542	319.886	296.995	279.580	258.505	201.281
10.00	1146.946	973.807	733.188	529.668	418.414	359.665	335.340	313.447	285.894	218.758
25.00	1929.722	1512.234	1003.000	654.998	482.924	405.023	380.454	352.458	315.207	235.758
50.00	2844.027	2087.667	1252.951	756.972	529.583	435.861	412.042	379.252	333.993	245.690
100.00	4177.445	2864.297	1551.788	866.600	575.237	464.573	442.167	404.418	350.672	253.860

1-4115.00 MAURICE RIVER AT NORMA, N. J.

STATISTICS OF MONTHLY MEANS, 1933-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1933-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	111.9	49.31	1.743	.4408	5.661	.641	2.015	.1671	.5397	.0829	7.750	.743
NOV	143.5	49.81	.3092	.3470	7.264	.545	2.129	.1646	-.6828	.0773	8.188	.597
DEC	159.5	49.46	.2228	.3102	8.070	.540	2.181	.1454	-.6445	.0667	8.386	.617
JAN	187.6	67.19	.7219	.3582	9.494	.714	2.245	.1622	-.4633	.0723	8.635	.782
FEB	204.5	72.15	1.276	.3529	10.35	.765	2.288	.1398	.5556	.0611	8.798	.762
MAR	238.8	69.87	.8848	.2926	12.09	.774	2.361	.1237	.0262	.0524	9.080	.747
APR	224.3	72.09	.5255	.3214	11.35	.881	2.329	.1421	-.1976	.0610	8.956	.875
MAY	186.3	69.36	.7199	.3723	9.428	.726	2.241	.1644	-.1589	.0734	8.617	.758
JUN	139.1	48.78	.9602	.3506	7.041	.744	2.118	.1505	-.1194	.0710	8.147	.743
JUL	115.2	54.04	1.277	.4689	5.832	.485	2.018	.1997	-.1307	.0990	7.760	.636
AUG	129.6	79.33	.9818	.6120	6.560	.662	2.034	.2684	-.0108	.1319	7.824	.739
SEP	135.7	108.1	2.645	.7964	6.867	.357	2.044	.2637	.7317	.1290	7.860	.573

1-4120.00 MANANTICO CREEK NEAR MILLVILLE, N. J.

Location.--Lat 39°25'12", long 74°58'00", at upstream side of Millville-Milmay highway bridge.

Drainage area.--22.3 sq mi.

Remarks.--Regulation may be significant at low flow.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1922								3	1		3	3	52	57	35	39	58	38	31	24	5	13	4													9005.8		
1933													8	7	13	32	32	39	49	77	55	21	14	7	5	2			1	1	1		1			15452.4		
1934										1			2	2	11	40	89	65	53	51	26	11	5	3			3	2	1						12672.1			
1935													1		20	33	54	43	66	59	41	18	11	7	4	2	3			1				2		15264.1		
1936		2	1								2		1	9	13	7	18	34	34	31	46	62	43	22	14	10	8	3	2	3			1			17927.7		
1937														5	11	50	58	27	22	71	48	28	23	12	5	1									14809.3			
1938													1	2		3	7	66	67	91	46	27	18	8	6	6	4	1	4	1	1	1		2	1	1	16049.4	
1939														2		3	9	5	46	27	44	82	33	34	38	23	8	7	1		1		1		1	18867.3		
1940													10	5	5	2	3	11	11	40	71	61	28	22	13	13	4	2		1	2		1		1	14848.2		
1941														1	9	14	8	3	12	7	5	7	54	75	59	48	27	17	11	6	1					12214.2		
1942															3	30	14	5	9	21	23	42	29	44	64	41	25	11	2	1					8730.6			
1943																20	17	4	9	10	2	10	17	20	64	72	60	26	22	8	3	1				12108.9		
1944																5	5	8	1	12	9	29	49	23	28	69	42	34	15	15	10	6	1	1	1	2	1	13842.0
1945																	16	5	10	27	57	36	87	70	34	12	3	3	4	1						12983.6		
1946																																					16525.0	
1947																																					12410.4	
1948																																					15931.2	
1949																																					16393.7	
1950																																					9571.0	
1951																																					11630.0	
1952																																					18615.3	
1953																																					17577.0	
1954																																					10801.3	
1955																																					9166.7	
1956																																					11646.0	
1957																																					10376.4	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9497	100.0	9	5.70	72	9468	99.7	18	28.0	1214	5949	62.6	27	130	32	79	.8
1	1.40	2	9497	100.0	10	6.80	71	9396	98.9	19	33.0	1279	4735	49.9	28	160	16	47	.4
2	1.70	1	9495	100.0	11	8.10	74	9325	98.2	20	39.0	1308	3456	36.4	29	190	15	31	.3
3	2.00	0	9494	100.0	12	9.60	65	9251	97.4	21	47.0	845	2148	22.6	30	230	3	16	.1
4	2.40	0	9494	100.0	13	11.00	277	9186	96.7	22	56.0	521	1303	13.7	31	270	2	13	.1
5	2.80	0	9494	100.0	14	14.00	270	8909	93.8	23	66.0	348	782	8.2	32	320	6	11	.1
6	3.40	4	9494	100.0	15	16.00	503	8639	91.0	24	79.0	197	434	4.6	33	380	4	5	.0
7	4.00	7	9490	99.9	16	19.00	866	8136	85.7	25	94.0	107	237	2.5	34	460	1	1	.0
8	4.80	15	9483	99.9	17	23.00	1321	7270	76.6	26	110.0	51	130	1.4					

1-4120.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MANANTICO CREEK NEAR MILLVILLE, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1932	4.4 4	4.5 3	7.7 6	12.9 9	14.7 6	15.1 4	16.0 4	17.0 4	21.1 5	32.5 7
1933	7.4 15	12.7 19	18.1 22	20.3 21	21.4 20	24.3 19	27.7 20	29.5 19	33.3 19	39.2 14
1934	11.9 21	14.9 21	16.9 19	18.7 17	21.7 21	24.9 21	29.5 23	31.2 21	31.7 17	39.4 15
1935	12.5 23	17.7 23	18.0 21	19.1 18	19.8 14	21.1 13	25.8 17	28.7 17	38.3 22	51.5 22
1936	1.4 1	1.5 1	7.3 5	11.2 7	14.7 7	18.2 9	21.7 10	21.9 9	25.3 11	38.7 13
1937	4.2 3	7.6 10	15.0 15	17.1 13	19.8 15	26.3 23	27.8 21	30.5 20	34.9 20	39.7 16
1938	5.6 7	7.6 11	15.8 16	19.5 20	23.4 24	24.6 20	25.2 15	38.3 25	47.6 25	51.8 23
1939	7.5 16	10.8 17	16.6 18	19.1 19	20.6 16	23.3 18	25.2 16	26.8 14	29.7 13	40.4 18
1940	7.0 12	7.2 9	14.3 14	18.1 16	22.1 22	26.9 24	33.4 25	36.1 22	37.7 21	44.2 21
1941	4.6 5	4.8 4	6.3 2	9.4 4	12.7 4	14.4 3	15.4 3	16.3 3	18.0 2	25.2 2
1942	5.2 6	6.0 6	10.3 8	12.7 8	15.4 8	16.8 7	18.0 6	20.1 7	22.6 6	32.5 8
1943	5.9 8	6.2 7	7.1 4	8.8 1	10.9 1	12.6 2	14.0 1	15.6 1	20.7 3	30.1 5
1944	5.9 9	5.9 5	6.6 3	9.2 2	15.4 9	21.1 14	25.9 18	28.3 16	31.4 16	39.8 17
1945	12.3 22	13.8 20	14.2 13	14.7 11	20.6 17	22.2 16	27.1 19	29.4 18	29.8 14	40.6 19
1946	18.2 25	19.2 25	19.9 24	20.4 22	21.2 18	22.1 15	24.6 13	25.3 12	29.3 12	36.7 11
1947	6.2 10	6.3 8	11.9 10	17.4 14	18.4 13	19.2 12	21.6 9	22.5 10	24.6 10	36.6 10
1948	7.0 13	12.2 18	16.5 17	21.4 24	22.7 23	25.3 22	28.2 22	37.3 23	40.0 23	54.7 25
1949	3.6 2	3.6 2	5.8 1	9.3 3	12.9 5	16.7 6	18.0 7	18.7 5	20.8 4	28.5 4
1950	7.4 14	9.1 13	12.8 11	15.0 12	16.9 11	19.1 11	22.4 11	23.8 11	24.2 8	30.4 6
1951	6.2 11	9.6 15	13.2 12	14.3 10	16.1 10	17.6 8	18.7 8	20.4 8	24.2 9	37.7 12
1952	16.0 24	18.0 24	20.3 25	22.7 25	24.4 25	27.5 25	31.3 24	38.1 24	43.1 24	53.7 24
1953	11.0 20	17.0 22	17.6 20	17.9 15	18.2 12	18.7 10	22.6 12	27.3 15	32.0 18	40.7 20
1954	9.2 19	9.5 14	9.9 7	10.7 5	11.5 2	12.4 1	14.0 2	16.3 2	17.8 1	24.6 1
1955	7.6 17	8.1 12	10.6 9	11.1 6	12.4 3	16.6 5	17.2 5	19.5 6	22.7 7	26.3 3
1956	8.0 18	10.7 16	19.0 23	20.5 23	21.3 19	22.8 17	24.7 14	26.2 13	29.8 15	34.3 9

MEAN	7.848	9.780	13.268	15.660	17.968	20.392	23.040	25.804	29.224	37.992
VARIANCE	15.240	23.461	21.654	19.457	16.409	19.774	29.778	49.414	62.861	72.291
STD DEV	3.904	4.844	4.653	4.411	4.051	4.447	5.457	7.029	7.928	8.502
SKEWNESS	1.078	.473	-.219	-.207	-.252	-.156	-.107	.301	.558	.419
SE OF SKEW	.464	.464	.464	.464	.464	.464	.464	.464	.464	.464
SER CORR	.239	.140	.071	.155	.142	.080	.026	-.041	.008	.124
C OF VAR	.497	.495	.351	.282	.225	.218	.237	.272	.271	.224

LOGS

MEAN OF	.842	.929	1.092	1.176	1.243	1.299	1.350	1.396	1.451	1.569
VAR OF	.053	.064	.030	.018	.011	.010	.012	.015	.014	.010
STD DEV OF	.230	.254	.173	.133	.104	.100	.109	.121	.117	.098
SKEW OF	-.784	-.982	-.621	-.487	-.525	-.519	-.482	-.117	.067	-.069
SE OF SKEW OF	.464	.464	.464	.464	.464	.464	.464	.464	.464	.464
SER CORR OF	.184	-.006	.057	.177	.160	.106	.063	-.013	.028	.178
C OF VAR OF	.274	.273	.159	.113	.084	.077	.081	.086	.081	.062

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENT INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	1.507	1.462	4.099	6.632	9.144	10.683	11.444	12.739	15.294	21.748
20.00	2.622	2.843	6.031	8.743	11.413	13.207	14.355	15.620	18.225	25.523
10.00	3.419	3.883	7.281	10.027	12.732	14.665	16.063	17.377	20.033	27.769
5.00	4.588	5.452	9.002	11.726	14.419	16.522	18.266	19.733	22.487	30.726
2.00	7.438	9.341	12.891	15.386	17.868	20.297	22.835	25.017	28.141	37.184
1.25	10.939	13.992	17.416	19.494	21.494	24.241	27.746	31.474	35.365	44.837
1.11	12.911	16.472	19.942	21.769	23.409	26.318	30.389	35.379	39.920	49.373
1.04	15.027	18.978	22.686	24.254	25.434	28.508	33.225	39.989	45.484	54.659
1.02	16.364	20.463	24.456	25.876	26.720	29.898	35.049	43.229	49.519	58.336
1.01	17.527	21.685	26.029	27.336	27.854	31.123	36.677	46.328	53.479	61.830

1-4120.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MANANTICO CREEK NEAR MILLVILLE, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1932	77.0 26	74.0 25	64.9 21	56.4 21	50.5 18	42.6 21	38.2 23	36.1 23	33.1 23	24.6 25
1933	352.0 6	275.0 4	183.0 5	123.0 4	88.1 3	59.2 13	52.2 13	50.2 13	46.5 13	42.3 9
1934	165.0 11	152.0 11	103.0 12	73.0 13	59.1 15	50.8 15	48.3 15	43.4 18	39.7 19	34.7 15
1935	456.0 2	359.0 2	215.0 2	127.0 3	81.1 8	61.4 11	56.0 12	52.0 12	46.8 12	41.8 10
1936	359.0 5	247.0 7	172.0 6	110.0 6	88.4 2	83.0 1	79.2 1	73.9 1	67.0 1	49.0 3
1937	115.0 16	98.7 16	81.4 18	71.1 14	65.8 13	59.8 12	56.5 11	56.5 10	52.9 8	40.6 11
1938	397.0 4	302.0 3	202.0 3	141.0 1	110.0 1	72.1 5	68.0 5	57.5 8	47.6 10	44.0 7
1939	847.0 1	450.0 1	231.0 1	137.0 2	83.9 5	79.8 2	78.3 2	70.6 3	61.5 4	51.1 1
1940	320.0 8	209.0 8	139.0 8	90.7 10	70.0 12	64.0 9	58.9 9	56.5 9	49.1 9	40.6 12
1941	95.0 22	90.0 20	83.9 17	66.4 15	54.2 16	48.2 17	46.0 17	44.3 16	41.5 16	33.5 17
1942	113.0 17	82.3 24	52.3 26	41.9 26	40.4 24	36.1 24	33.7 24	30.9 25	27.5 26	23.9 26
1943	96.0 21	85.3 21	64.7 22	58.6 19	54.1 17	50.8 16	48.5 14	46.4 14	43.0 14	33.2 18
1944	262.0 9	194.0 9	125.0 10	92.5 9	73.9 10	65.1 7	57.5 10	52.9 11	47.2 11	37.8 13
1945	110.0 18	95.7 18	86.6 14	62.1 17	50.2 19	46.2 19	42.9 19	43.4 17	40.9 18	35.6 14
1946	143.0 14	124.0 13	109.0 11	86.9 12	70.1 11	64.1 8	60.8 7	58.6 7	54.9 7	45.3 5
1947	107.0 20	97.0 17	85.4 16	63.3 16	60.0 14	51.6 14	48.0 16	45.7 15	43.0 15	34.0 16
1948	414.0 3	263.0 6	146.0 7	90.5 11	75.1 9	63.3 10	60.1 8	61.2 6	55.1 6	43.5 8
1949	140.0 15	122.0 14	100.0 13	95.6 8	86.0 4	78.8 3	75.8 3	73.4 2	66.1 2	44.9 6
1950	93.0 23	84.0 22	55.6 25	43.3 25	36.7 26	33.6 25	31.6 25	31.2 24	28.5 25	26.2 23
1951	144.0 13	113.0 15	78.1 19	59.1 18	49.6 20	46.9 18	43.6 18	42.2 19	41.1 17	31.9 19
1952	326.0 7	264.0 5	187.0 4	120.0 5	83.6 6	68.0 6	65.7 6	62.8 5	61.2 5	50.9 2
1953	207.0 10	158.0 10	127.0 9	101.0 7	83.1 7	76.0 4	70.1 4	66.6 4	62.1 3	48.2 4
1954	108.0 19	93.7 19	67.3 20	55.1 23	47.9 22	44.9 20	42.3 20	40.7 20	39.3 21	29.6 21
1955	164.0 12	135.0 12	85.7 15	58.5 20	40.1 25	32.7 26	30.9 26	30.7 26	29.2 24	25.1 24
1956	90.0 24	82.3 23	63.6 23	56.1 22	48.5 21	42.4 22	41.6 21	40.5 21	39.6 20	31.8 20
1957	79.0 25	69.7 26	56.1 24	49.7 24	42.4 23	40.9 23	40.5 22	38.2 22	35.5 22	28.4 22
MEAN	222.269	166.142	114.023	81.915	65.108	56.242	52.892	50.246	46.150	37.427
VARIANCE	30643.289	10177.555	2925.130	891.192	365.315	216.241	198.331	165.815	128.810	71.303
STD DEV	175.052	100.884	54.084	29.853	19.113	14.705	14.083	12.877	11.349	8.444
SKEWNESS	2.039	1.276	.821	.584	.379	.182	.327	.278	.244	.014
SE OF SKEW	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR	.215	.217	.249	.220	.217	.239	.237	.222	.164	.251
C OF VAR	.788	.607	.474	.364	.294	.261	.266	.256	.246	.226

LOGS

MEAN OF	2.247	2.154	2.013	1.886	1.795	1.735	1.708	1.687	1.651	1.562
VAR OF	.082	.057	.039	.025	.017	.014	.014	.013	.012	.010
STD DEV OF	.286	.238	.198	.157	.129	.117	.118	.114	.110	.102
SKEW OF	.658	.557	.294	.137	-.074	-.230	-.137	-.159	-.243	-.308
SE OF SKEW OF	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR OF	.163	.195	.265	.225	.246	.256	.245	.229	.160	.251
C OF VAR OF	.127	.110	.099	.083	.072	.067	.069	.067	.066	.065

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	52.744	49.995	39.275	34.479	30.710	27.744	26.473	25.691	23.818	20.088
1.05	68.607	63.630	50.529	43.125	38.003	34.298	32.384	31.287	29.089	24.350
1.11	80.733	73.565	58.250	48.735	42.514	38.246	35.969	34.658	32.228	26.849
1.25	100.548	89.121	69.717	56.674	48.634	43.474	40.754	39.131	36.349	30.088
2.00	164.546	135.474	100.653	76.307	62.653	54.920	51.404	48.987	45.248	36.919
5.00	298.178	221.280	149.988	103.941	80.295	68.371	64.272	60.727	55.516	44.538
10.00	424.679	294.677	187.160	122.740	91.225	76.231	71.984	67.684	61.434	48.806
25.00	640.456	409.448	239.377	147.074	104.363	85.247	81.021	75.764	68.156	53.548
50.00	851.103	513.087	282.180	165.630	113.744	91.422	87.332	81.363	72.720	56.706
100.00	1113.480	634.200	328.410	184.560	122.831	97.210	93.340	86.662	76.972	59.603

STATISTICS OF MONTHLY MEANS, 1932-1957

STATISTICS OF LOGS OF MONTHLY MEANS, 1932-1957

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	26.47	7.668	.7069	.2897	5.887	.621	1.406	.1252	-.0510	.0891	7.624	.623
NOV	33.68	10.25	.3122	.3042	7.490	.565	1.506	.1421	-.6593	.0944	8.171	.608
DEC	36.69	12.76	.5896	.3477	8.160	.598	1.539	.1528	-.0891	.0992	8.349	.677
JAN	42.52	15.86	.7754	.3730	9.456	.714	1.600	.1636	-.1534	.1023	8.677	.714
FEB	45.80	16.21	1.007	.3538	10.19	.777	1.637	.1450	.3600	.0886	8.879	.722
MAR	50.42	12.85	.9202	.2548	11.21	.756	1.690	.1048	.4939	.0620	9.167	.705
APR	46.50	13.88	.4923	.2986	10.34	.847	1.649	.1290	.0870	.0782	8.945	.860
MAY	40.64	13.88	.3036	.3415	9.038	.705	1.583	.1566	-.3553	.0989	8.587	.779
JUN	33.88	10.62	.1866	.3134	7.536	.681	1.508	.1432	-.3313	.0950	8.181	.626
JUL	27.96	12.63	2.078	.4518	6.217	.371	1.413	.1680	.6077	.1189	7.663	.533
AUG	34.69	19.75	.9801	.5694	7.714	.472	1.475	.2452	.0263	.1663	7.999	.493
SEP	30.40	17.05	1.629	.5608	6.761	.367	1.430	.2092	.6490	.1462	7.758	.541

1-4340.00 DELAWARE RIVER AT PORT JERVIS, N. Y.

Location.--Lat 41°22'20", long 74°41'50", 250 ft downstream from bridge on U.S. Highways 6 and 209.

Drainage area.--3,076 sq mi.

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.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1905																																				2059610.0
1906																																				2151920.0
1907																																				1695095.0
1908																																				2624240.0
1909																																				2043235.0
1910																																				1628085.0
1911																																				1459010.0
1912																																				2166930.0
1913																																				2048555.0
1914																																				2014147.0
1915																																				1731301.0
1916																																				2443395.0
1917																																				1979155.0
1918																																				1781861.0
1919																																				1699095.0
1920																																				2306190.0
1921																																				2226414.0
1922																																				2308210.0
1923																																				1558025.0
1924																																				1972073.0
1925																																				1765035.0
1926																																				1917393.0
1927																																				2393422.0
1928																																				3616990.0
1929																																				1844263.0
1930																																				1647125.0
1931																																				1533477.0
1932																																				1660254.0
1933																																				2298854.0
1934																																				1681540.0
1935																																				2045350.0
1936																																				2321304.0
1937																																				2218468.0
1938																																				2357770.0
1939																																				2036495.0
1940																																				2089933.0
1941																																				1488543.0
1942																																				1647450.0
1943																																				2575695.0
1944																																				1368732.0
1945																																				2483737.0
1946																																				2170905.0
1947																																				2246676.0
1948																																				1990368.0
1949																																				1679851.0
1950																																				2061399.0
1951																																				2371245.0
1952																																				2649702.0
1953																																				2164502.0
1954																																				1627533.0
1955																																				1895810.0
1956																																				2496744.0
1957																																				1394272.0
1958																																				1939442.0
1959																																				1585487.0
1960																																				2437520.0
1961																																				

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	23010	100.0	9	800.00	709	21767	94.6	18	4400.0	1618	8548	37.1	27	2500.0	170	485	2.1
1	175.00	1	23010	100.0	10	970.00	1083	21058	91.5	19	5400.0	1374	6930	30.1	28	3000.0	127	315	1.3
2	210.00	7	23009	100.0	11	1200.00	1092	19975	86.8	20	6500.0	1299	5556	24.1	29	3600.0	81	188	0.8
3	260.00	9	23002	100.0	12	1400.00	1636	18883	82.1	21	7900.0	1061	4257	18.5	30	4000.0	56	107	0.4
4	310.00	29	22993	99.9	13	1700.00	1860	17247	75.0	22	9500.0	623	3196	13.9	31	5300.0	22	51	0.2
5	370.00	110	22964	99.8	14	2100.00	1715	15387	66.9	23	11000.0	937	2573	11.2	32	6400.0	15	29	0.1
6	450.00	298	22854	99.3	15	2500.00	1658	13672	59.4	24	14000.0	530	1636	7.1	33	7700.0	11	14	0.0
7	550.00	252	22556	98.0	16	3000.00	2031	12014	52.2	25	17000.0	316	1106	4.8	34	9300.0	3	3	0.0
8	660.00	537	22304	96.9	17	3700.00	1435	9983	43.4	26	20000.0	305	790	3.4					

1-4125.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WEST BRANCH COHANSEY RIVER AT SEELY, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1952	77.0 2	37.8 1	18.0 1	9.5 1	5.8 1	3.8 4	3.2 4	3.0 4	2.8 4	2.5 3
1953	12.0 6	13.0 7	7.9 5	4.8 6	3.4 7	3.0 5	2.9 5	2.8 5	2.8 5	2.4 4
1954	9.2 11	5.0 11	3.2 11	2.7 11	2.3 12	2.3 11	2.1 11	2.0 10	1.9 10	1.7 9
1955	7.5 12	4.1 12	2.6 13	2.0 14	1.7 14	1.5 14	1.5 14	1.4 14	1.4 14	1.3 14
1956	34.0 5	14.5 6	7.0 7	3.9 8	2.6 11	2.5 9	2.1 12	1.8 12	1.7 11	1.4 13
1957	30.0 4	20.0 3	9.8 3	5.6 4	3.8 6	2.8 7	2.5 7	2.3 7	2.2 7	1.8 8
1958	51.0 3	19.4 4	9.8 4	6.5 3	4.4 3	4.2 2	3.8 3	3.5 2	3.2 2	2.6 2
1959	17.0 8	7.4 9	4.6 9	3.5 9	3.1 8	2.7 8	2.6 6	2.5 6	2.4 6	2.3 6
1960	25.0 1	35.7 2	16.9 2	9.4 2	5.8 2	4.9 1	4.0 1	3.4 3	3.0 3	2.4 5
1961	16.0 9	9.8 8	5.9 8	4.6 7	4.2 5	4.1 3	3.4 2	3.7 1	3.4 1	2.8 1
1962	7.0 13	4.1 13	3.1 12	2.7 12	2.4 9	2.4 10	2.2 9	2.1 8	2.1 8	1.9 7
1963	15.0 10	7.2 10	4.5 10	3.2 10	2.6 10	2.2 12	2.1 11	1.9 9	1.9 9	1.5 10
1964	2.2 14	3.1 15	2.4 14	2.1 13	2.0 13	1.8 13	1.8 13	1.8 13	1.7 12	1.4 11
1965	2.4 16	2.1 16	1.7 16	1.5 15	1.4 15	1.4 15	1.3 15	1.3 15	1.3 15	1.1 15
1966	5.7 15	3.3 14	1.8 15	1.5 16	1.1 16	1.0 16	0.9 16	0.9 16	0.9 16	0.8 16
1967	21.0 7	15.0 5	7.8 6	4.8 5	4.3 4	2.9 6	2.7 8	1.9 11	1.6 13	1.4 12

MEAN	27.669	12.544	6.687	4.269	3.194	2.719	2.444	2.275	2.144	1.831
VARIANCE	727.050	122.465	24.873	6.206	2.054	1.184	.823	.669	.532	.361
STD DEV	26.964	11.066	4.987	2.491	1.433	1.088	.907	.818	.729	.601
SKEWNESS	1.451	1.381	1.277	1.076	.477	.434	.293	.304	.210	.076
SE OF SKEW	.564	.564	.564	.564	.564	.564	.564	.564	.564	.564
SER CORR	.078	.125	.192	.264	.344	.430	.513	.549	.602	.688
C OF VAR	.975	.882	.746	.584	.449	.400	.371	.359	.340	.328

LOGS

MEAN OF	1.240	.944	.717	.563	.460	.399	.357	.328	.306	.239
VAR OF	.205	.147	.103	.063	.044	.035	.031	.028	.025	.024
STD DEV OF	.452	.384	.321	.250	.210	.187	.176	.168	.158	.154
SKEW OF	-.059	.125	.105	.062	-.388	-.482	-.631	-.515	-.494	-.503
SE OF SKEW OF	.564	.564	.564	.564	.564	.564	.564	.564	.564	.564
SER CORR OF	.372	.368	.370	.410	.395	.447	.519	.566	.631	.692
C OF VAR OF	.365	.407	.447	.444	.457	.469	.493	.510	.518	.643

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	1.473	1.221	.990	.983	.816	.792	.738	.753	.760	.670
1.05	3.081	2.122	1.581	1.433	1.237	1.169	1.095	1.073	1.059	.925
1.11	4.548	2.869	2.040	1.755	1.525	1.418	1.327	1.278	1.248	1.085
1.25	7.262	4.161	2.788	2.250	1.941	1.768	1.647	1.560	1.505	1.302
2.00	17.577	8.637	5.140	3.638	2.974	2.594	2.374	2.202	2.083	1.785
5.00	41.928	18.403	9.650	5.934	4.359	3.624	3.221	2.965	2.762	2.346
10.00	65.669	27.617	13.513	7.689	5.233	4.238	3.695	3.403	3.150	2.663
25.00	105.504	42.919	19.458	10.162	6.282	4.939	4.208	3.892	3.583	3.015
50.00	142.976	57.315	24.702	12.185	7.021	5.414	4.539	4.216	3.869	3.246
100.00	187.632	74.569	30.680	14.360	7.727	5.853	4.833	4.511	4.129	3.456

STATISTICS OF MONTHLY MEANS, 1952-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1952-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	1.565	.5468	1.127	.3494	7.203	.722	.1720	.1417	.4634	.8236	6.769	.786
NOV	1.760	.7435	1.118	.4226	8.099	.497	.2104	.1812	-.0687	.8610	8.282	.576
DEC	1.717	.6454	.6398	.3758	7.905	.608	.2053	.1684	-.2165	.8202	8.079	.789
JAN	1.800	.6592	.3100	.3662	8.285	.654	.2253	.1717	-.4572	.7620	8.869	.762
FEB	1.890	.6463	1.073	.3419	8.700	.952	.2535	.1466	-.1185	.5782	9.979	.950
MAR	2.062	.7115	.5513	.3451	9.490	.932	.2890	.1561	-.3788	.5402	11.38	.908
APR	1.965	.7809	.8674	.3975	9.043	.926	.2615	.1731	-.0910	.6621	10.29	.919
MAY	1.749	.7467	.7772	.4269	8.050	.973	.2067	.1827	.1329	.8840	8.134	.974
JUN	1.517	.6675	.4325	.4399	6.984	.933	.1391	.2018	-.2250	1.451	5.475	.930
JUL	1.752	1.131	.6026	.6452	8.066	.801	.1438	.3259	-.5663	2.267	5.658	.829
AUG	2.066	1.444	1.226	.6991	9.509	.468	.2163	.3130	-.2777	1.447	8.514	.714
SEP	1.883	1.201	2.578	.6379	8.666	.343	.2179	.2153	.8544	.9879	8.576	.570

1-4125.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

WEST BRANCH CHANSEY RIVER AT SEELEY, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1952	1.3 12	1.4 13	1.4 13	1.5 13	1.6 12	1.7 10	1.7 10	1.9 12	2.0 13	2.4
1953	1.5 14	1.5 14	1.5 14	1.6 14	1.7 14	1.7 11	1.8 11	1.9 13	1.9 12	2.2
1954	0.3 4	0.4 4	0.5 4	0.6 4	0.6 4	0.9 7	1.1 7	1.2 7	1.3 7	1.3
1955	0.2 2	0.3 2	0.3 2	0.5 2	0.6 2	0.9 3	0.9 3	1.0 3	1.1 4	1.1
1956	0.8 8	0.8 8	0.8 8	0.9 8	1.0 8	1.1 8	1.1 8	1.5 8	1.6 8	1.9
1957	0.5 7	0.5 5	0.6 5	0.7 5	0.8 5	0.9 4	1.0 4	1.1 6	1.2 5	1.7
1958	1.5 15	1.5 15	1.7 15	2.0 15	2.1 15	2.2 15	2.3 15	2.3 15	2.4 14	2.8
1959	1.2 11	1.3 11	1.3 11	1.4 11	1.6 13	1.7 12	1.8 12	1.8 10	1.8 10	2.1
1960	1.0 10	1.1 10	1.2 9	1.3 9	1.5 10	1.7 13	1.8 13	2.0 14	2.8 15	2.9
1961	1.4 13	1.4 12	1.4 12	1.4 12	1.5 11	1.8 14	1.9 14	1.9 11	1.9 11	2.4
1962	0.9 9	1.0 9	1.2 10	1.3 10	1.4 9	1.4 9	1.5 9	1.5 9	1.6 9	1.8
1963	0.4 5	0.5 6	0.6 6	0.7 6	0.8 6	0.9 5	1.0 5	1.0 4	1.0 3	1.3
1964	0.4 6	0.6 7	0.6 7	0.7 7	0.8 7	0.9 6	1.1 6	1.1 5	1.2 6	1.3
1965	0.7 3	0.4 3	0.5 3	0.6 3	0.6 3	0.7 2	0.7 2	0.7 2	0.8 2	0.9
1966	0.0 1	0.1 1	0.1 1	0.2 1	0.2 1	0.3 1	0.3 1	0.4 1	0.6 1	0.9

	1†	3	7	14	30	60	90	120	183	ANN
MEAN	.829	.853	.913	1.027	1.133	1.247	1.333	1.420	1.547	1
VARIANCE	.244	.237	.246	.256	.281	.283	.294	.295	.363	
STD DEV	.494	.487	.496	.506	.530	.532	.542	.543	.602	
SKEWNESS	.087	.062	.014	.247	.077	.078	-.055	-.203	.443	
SE OF SKEW	.597	.580	.580	.580	.580	.580	.580	.580	.580	
SER CORR	.352	.445	.459	.404	.489	.528	.553	.541	.447	
C OF VAR	.596	.570	.543	.493	.468	.426	.407	.382	.389	

LOGS

MEAN OF	-.176	-.163	-.128	-.050	-.005	.050	.081	.114	.156	
VAR OF	.103	.111	.109	.068	.068	.050	.050	.041	.033	
STD DEV OF	.321	.333	.329	.260	.260	.223	.223	.203	.181	
SKEW OF	-.491	-1.104	-1.363	-.972	-1.295	-1.080	-1.391	-1.176	-.458	
SE OF SKEW OF	.597	.580	.580	.580	.580	.580	.580	.580	.580	
SER CORR OF	.393	.472	.471	.479	.573	.608	.656	.651	.568	
C OF VAR OF	-1.818	-2.047	-2.579	-5.179	-54.902	4.462	2.753	1.776	1.158	

† Zero flow values excluded in computation of statistics.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1†	3	7	14	30	60	90	120	183	ANN
100.00	-	.064	.063	.148	.145	.232	.226	.300	.474	
20.00	-	.161	.172	.291	.312	.425	.446	.534	.687	
16.00	0	-	-	-	-	-	-	-	-	
10.00	.14	.246	.270	.400	.443	.564	.607	.695	.827	1.
5.00	.29	.388	.435	.565	.643	.764	.839	.922	1.022	1.
2.00	.65	.790	.880	.980	1.121	1.228	1.351	1.423	1.479	1.
1.25	1.19	1.317	1.403	1.484	1.635	1.734	1.847	1.932	2.047	2.
1.11	1.59	1.606	1.652	1.755	1.873	1.985	2.058	2.168	2.385	2.
1.04	2.09	1.896	1.871	2.032	2.082	2.223	2.232	2.382	2.773	3.
1.02	2.43	2.064	1.982	2.197	2.191	2.357	2.317	2.496	3.035	3.
1.01	2.75	2.198	2.062	2.333	2.270	2.463	2.376	2.583	3.279	3.

† Zero flow values included in computation of curve.

1-4125.00 WEST BRANCH COHANSEY RIVER AT SEELEY, N. J.

Location.--Lat 39°29'06", long 75°15'33", 15 ft upstream from County Bridge H-31.

Drainage area.--2.55 sq mi.

Remarks.--Diversion significant at low flow during growing season.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS	
1952								6	39	57	117	88	27	14	5	5	2	1	2							1	1				1			898.4	
1953									55	133	83	56	18	9	2	4	2	1	1							1								860.1	
1954		1	1	2	3	6	16	24	57	108	101	20	13	5	2	2	4																	607.5	
1955		4	1	5	1	9	37	44	181	54	12	5	6	4		1	1	1																456.7	
1956							43	88	161	45	12	6	4				2	1	1	1	1						1							512.8	
1957				1	5	5	19	41	64	47	137	25	11	5		1			1	1				1			1							643.7	
1958								73	47	66	60	68	20	9	6	3	2	4	3	1	1			1				1						939.3	
1959								7	49	118	120	46	10	3	4	2	1		3	1	1													843.2	
1960								1	12	48	201	47	36	6	5	1	4	1	1		1		1				1				1			895.6	
1961										56	115	88	72	14	10	6	1		1		2													1035.1	
1962								1	26	100	147	62	18	8	2		1																	682.1	
1963				1	3	2	25	62	79	117	51	6	8	2	5	1	2					1												539.9	
1964				1	2	7	12	111	69	78	60	6	11	6		2	1																	504.0	
1965		1	2	4	7	29	71	45	171	21	10	1	3																					383.6	
1966	2	9	9	34	25	5	14	29	118	8	5	1		1	1	1	3																	283.8	
1967			3		4	4	47	122	79	63	12	5	3	9	2		2	2	1	3	1				1	1	1							493.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	2	5844	100.0	9	1.10	1010	4492	76.9	18	6.9	16	63	1.1	27	42		3	.0
1	0.10	9	5842	100.0	10	1.40	843	3482	59.6	19	9.4	13	47	0.8	28	51	1	3	.0
2	0.20	18	5833	99.8	11	1.70	1227	2639	45.2	20	10.0	11	34	0.6	29	63		2	.0
3	0.30	38	5815	99.5	12	2.10	647	1412	24.2	21	13.0	4	23	0.4	30	77	2	2	.0
4	0.40	43	5777	98.9	13	2.50	405	765	13.1	22	15.0	5	19	0.3	31				.0
5	0.50	70	5734	98.1	14	3.10	173	360	6.2	23	19.0	2	14	0.2	32				
6	0.60	118	5704	97.6	15	3.80	53	187	3.2	24	23.0	2	12	0.2	33				
7	0.70	474	5586	95.6	16	4.60	40	134	2.3	25	28.0	3	10	0.2	34				
8	0.80	620	5112	87.5	17	5.60	31	94	1.6	26	34.0	4	7	0.1					

1-4340.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

DELAWARE RIVER AT PORT JERVIS, N. Y.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1905	930.0 50	1010.0 49	1030.0 44	1110.0 44	1370.0 48	1610.0 47	1820.0 44	2040.0 39	2900.0 40	4850.0 19
1906	720.0 39	720.0 33	793.0 27	1000.0 33	1240.0 41	1650.0 51	2040.0 50	2470.0 50	3450.0 53	6080.0 45
1907	280.0 3	320.0 3	366.0 4	443.0 5	535.0 6	853.0 14	1230.0 23	1690.0 32	2750.0 36	6580.0 51
1908	175.0 1	208.0 1	226.0 1	254.0 1	312.0 1	454.0 1	563.0 3	709.0 4	1110.0 4	5350.0 31
1909	390.0 11	410.0 8	416.0 7	439.0 4	469.0 4	512.0 4	535.0 1	592.0 1	757.0 1	5100.0 27
1910	390.0 12	390.0 6	407.0 6	444.0 6	477.0 5	627.0 5	656.0 4	684.0 2	952.0 2	3490.0 6
1911	450.0 19	497.0 16	540.0 13	550.0 11	649.0 11	911.0 15	1390.0 31	1990.0 37	3380.0 51	5560.0 34
1912	390.0 13	453.0 13	491.0 10	531.0 9	691.0 16	832.0 12	1260.0 25	1470.0 23	2510.0 30	6770.0 54
1913	330.0 6	330.0 4	347.0 2	369.0 2	431.0 2	496.0 2	562.0 2	702.0 3	1680.0 17	4070.0 11
1914	292.0 4	319.0 2	352.0 3	380.0 3	439.0 3	500.0 3	566.0 5	819.0 5	1150.0 5	5340.0 30
1915	1050.0 57	1170.0 56	1370.0 57	1640.0 58	1720.0 57	2700.0 59	3150.0 59	3430.0 59	3920.0 54	5490.0 33
1916	880.0 47	935.0 46	1020.0 42	1140.0 45	1360.0 46	1550.0 43	1790.0 43	1930.0 36	2950.0 43	6040.0 44
1917	685.0 37	685.0 30	739.0 23	803.0 23	906.0 24	1340.0 35	1780.0 42	2800.0 54	2870.0 39	5870.0 43
1918	390.0 14	390.0 5	404.0 5	456.0 7	593.0 8	696.0 8	1020.0 14	1620.0 28	2120.0 25	5440.0 14
1919	935.0 51	1010.0 50	1060.0 45	1070.0 42	1310.0 45	1370.0 36	2210.0 52	2310.0 48	3050.0 46	5610.0 37
1920	1550.0 60	1610.0 60	1900.0 60	2180.0 60	2920.0 61	3330.0 60	4030.0 60	4000.0 60	4620.0 57	7400.0 61
1921	525.0 22	575.0 22	632.0 17	676.0 18	784.0 16	1130.0 25	1460.0 32	1490.0 25	1720.0 18	5050.0 25
1922	600.0 31	600.0 23	642.0 19	722.0 19	868.0 22	944.0 19	1010.0 12	1170.0 13	1670.0 16	4950.0 21
1923	515.0 20	565.0 21	579.0 15	613.0 14	863.0 20	1030.0 20	1200.0 19	1320.0 18	1870.0 21	4670.0 18
1924	525.0 23	562.0 20	639.0 18	672.0 17	829.0 19	1090.0 22	1320.0 28	1720.0 33	2720.0 35	5770.0 41
1925	740.0 40	740.0 34	818.0 29	1050.0 40	1670.0 56	2320.0 57	2520.0 56	2760.0 53	3170.0 48	5060.0 26
1926	745.0 41	745.0 35	788.0 26	828.0 24	1010.0 27	1370.0 37	1740.0 39	2200.0 43	2920.0 41	6290.0 50
1927	898.0 48	898.0 44	936.0 38	1040.0 38	1560.0 53	2010.0 55	2630.0 57	3360.0 58	4690.0 58	7650.0 62
1928	1020.0 55	1120.0 54	1250.0 52	1310.0 52	1370.0 47	1570.0 44	1840.0 45	2040.0 40	2670.0 34	6920.0 56
1929	594.0 29	648.0 25	753.0 24	857.0 26	1050.0 29	1100.0 23	1220.0 22	1520.0 27	2390.0 29	5840.0 42
1930	572.0 27	689.0 31	710.0 22	749.0 22	811.0 18	921.0 17	1070.0 15	1120.0 12	1200.0 6	2630.0 3
1931	588.0 28	677.0 28	840.0 32	899.0 28	952.0 25	1050.0 21	1160.0 17	1320.0 19	2560.0 33	5200.0 28
1932	523.0 21	636.0 24	697.0 21	730.0 21	808.0 17	1100.0 24	1380.0 30	2210.0 44	3420.0 52	5580.0 36
1933	626.0 33	747.0 36	862.0 34	987.0 32	1070.0 31	1180.0 29	1590.0 35	2340.0 49	4320.0 56	5470.0 32
1934	750.0 42	955.0 47	1080.0 46	1180.0 47	1250.0 43	1630.0 48	1990.0 48	2220.0 45	3270.0 49	5660.0 40
1935	600.0 30	683.0 29	891.0 36	948.0 31	1110.0 34	1290.0 34	1510.0 33	2630.0 51	3090.0 47	6620.0 52
1936	538.0 24	659.0 26	863.0 35	1010.0 34	1110.0 35	1380.0 38	1370.0 29	1470.0 24	2020.0 23	4970.0 22
1937	1210.0 59	1450.0 59	1650.0 59	1810.0 59	2170.0 58	2700.0 58	2630.0 58	3030.0 55	4110.0 55	6150.0 47
1938	1640.0 61	1710.0 61	2230.0 62	2380.0 61	2880.0 60	3840.0 61	4160.0 61	5350.0 61	5870.0 61	6980.0 57
1939	428.0 16	552.0 19	795.0 28	916.0 29	1020.0 28	1150.0 26	1170.0 18	1320.0 20	1930.0 22	3630.0 7
1940	652.0 34	859.0 43	1220.0 50	1360.0 54	1510.0 51	1910.0 54	2270.0 53	2270.0 47	3010.0 45	6230.0 49
1941	360.0 7	417.0 11	473.0 9	577.0 12	617.0 9	695.0 7	889.0 9	992.0 9	1220.0 7	3460.0 5
1942	830.0 45	917.0 45	1390.0 58	1540.0 57	2200.0 59	2280.0 56	2430.0 55	3290.0 57	4970.0 60	7090.0 54
1943	327.0 5	459.0 14	610.0 16	649.0 15	695.0 15	807.0 10	1010.0 13	1220.0 15	2530.0 31	4630.0 17
1944	412.0 15	459.0 15	524.0 12	595.0 13	661.0 12	814.0 11	1100.0 16	1190.0 14	1540.0 11	5000.0 23
1945	1650.0 62	1900.0 62	2030.0 61	2480.0 62	3080.0 62	4700.0 62	5150.0 62	6270.0 62	6120.0 62	7210.0 59
1946	622.0 32	853.0 41	1220.0 51	1300.0 50	1380.0 49	1870.0 53	2030.0 49	2000.0 38	2150.0 26	4510.0 15
1947	540.0 25	827.0 40	1130.0 47	1170.0 46	1200.0 39	1540.0 42	2330.0 54	3030.0 56	2830.0 37	6770.0 53
1948	562.0 26	660.0 27	924.0 37	1070.0 41	1160.0 37	1190.0 30	1290.0 26	1510.0 26	2100.0 24	5650.0 39
1949	380.0 9	413.0 9	664.0 20	725.0 20	868.0 21	914.0 16	970.0 10	1000.0 10	1370.0 9	4320.0 13
1950	798.0 44	811.0 39	850.0 33	1050.0 39	1170.0 38	1580.0 45	1870.0 47	2120.0 42	2860.0 38	7260.0 60
1951	870.0 46	1040.0 51	1310.0 55	1330.0 53	1600.0 55	1740.0 52	2090.0 51	2250.0 46	2530.0 32	6180.0 48
1952	430.0 17	517.0 17	772.0 25	875.0 27	955.0 26	1150.0 27	1560.0 34	1630.0 29	2920.0 42	6880.0 55
1953	372.0 8	404.0 7	552.0 14	651.0 16	678.0 13	851.0 13	850.0 8	956.0 8	1560.0 12	4900.0 20
1954	280.0 2	413.0 10	517.0 11	549.0 10	571.0 7	661.0 6	830.0 7	861.0 6	1850.0 19	4590.0 16
1955	673.0 36	808.0 37	958.0 39	1030.0 35	1090.0 32	1420.0 40	1750.0 40	2640.0 52	4710.0 59	6120.0 46
1956	954.0 53	1090.0 52	1140.0 48	1200.0 49	1290.0 44	1480.0 41	1670.0 37	1890.0 35	2190.0 27	5270.0 29
1957	771.0 43	859.0 42	1000.0 40	1030.0 36	1060.0 30	1210.0 32	1240.0 24	1270.0 16	1480.0 10	3920.0 10
1958	1190.0 58	1210.0 57	1290.0 54	1420.0 55	1490.0 50	1630.0 49	1760.0 41	1860.0 34	2960.0 44	5630.0 38
1959	997.0 54	1160.0 55	1320.0 56	1440.0 56	1570.0 54	1600.0 46	1610.0 36	1630.0 30	2390.0 28	5050.0 24
1960	1050.0 56	1220.0 58	1270.0 53	1310.0 51	1540.0 52	1640.0 50	1860.0 46	2070.0 41	3280.0 50	5570.0 35
1961	952.0 52	1120.0 53	1180.0 49	1190.0 48	1240.0 42	1390.0 39	1690.0 38	1690.0 31	1870.0 20	4280.0 12
1962	900.0 49	956.0 48	1030.0 43	1080.0 43	1110.0 36	1200.0 31	1210.0 20	1260.0 17	1600.0 14	3850.0 9
1963	434.0 18	533.0 18	827.0 31	918.0 30	1090.0 33	1170.0 28	1220.0 21	1360.0 21	1590.0 13	3760.0 8
1964	672.0 35	714.0 32	826.0 30	856.0 25	884.0 23	940.0 18	1010.0 11	1080.0 11	1230.0 8	2570.0 2
1965	385.0 10	418.0 12	432.0 8	467.0 8	637.0 10	771.0 9	828.0 6	933.0 7	1040.0 3	2440.0 1
1966	686.0 38	811.0 38	1010.0 41	1040.0 37	1220.0 40	1280.0 33	1320.0 27	1380.0 22	1660.0 15	2910.0 4

1-4340.00 DELAWARE RIVER AT PORT JERVIS, N. Y.
 LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	14	30	60	90	120	183	ANNUAL
MEAN	681.016	766.387	896.613	985.290	1147.951	1397.887	1637.081	1928.032	2602.242	5307.90
VARIANCE	104157.687	122797.187	166849.812	209629.125	330158.375	598854.812	737366.500	1087565.000	1402583.000	1552312.00
STD DEV	322.735	350.424	408.472	457.853	574.594	773.857	858.700	1042.864	1184.307	1245.91
SKEWNESS	1.152	1.075	1.049	1.219	1.550	2.112	1.890	1.886	.920	-.34
SE OF SKEW	.304	.304	.304	.304	.304	.304	.304	.304	.304	.30
SER CORR	.227	.264	.276	.244	.158	.136	.129	.064	.062	.15
C OF VAR	.474	.457	.456	.465	.501	.554	.525	.541	.455	.23

LOGS

MEAN OF	2.788	2.841	2.909	2.949	3.012	3.094	3.165	3.233	3.371	3.71
VAR OF	.041	.039	.041	.041	.042	.043	.042	.045	.040	.01
STD DEV OF	.202	.197	.201	.201	.205	.208	.205	.213	.201	.11
SKEW OF	-.076	-.114	-.288	-.229	-.009	.290	.159	.150	-.195	-1.01
SE OF SKEW OF	.304	.304	.304	.304	.304	.304	.304	.304	.304	.30
SER CORR OF	.302	.348	.383	.377	.316	.271	.268	.218	.188	.24
C OF VAR OF	.072	.069	.069	.068	.068	.067	.065	.066	.060	.03

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	202.707	232.705	249.864	279.875	342.114	450.544	515.848	577.198	750.449	2320.27
20.00	282.729	324.508	364.356	402.966	472.786	587.505	688.038	779.884	1071.639	3140.12
10.00	336.833	386.150	441.540	485.954	561.622	682.361	805.892	919.708	1288.110	3617.39
5.00	415.513	475.187	552.646	605.701	691.654	824.344	980.147	1127.735	1600.794	4217.82
2.00	616.908	700.087	828.397	905.307	1029.413	1212.573	1444.472	1687.672	2386.325	5373.94
1.25	908.366	1018.931	1203.207	1319.638	1530.619	1843.063	2166.717	2569.712	3482.621	6434.15
1.11	1108.335	1233.811	1444.675	1591.312	1882.573	2324.852	2697.521	3223.894	4208.297	6914.33
1.04	1366.942	1507.662	1740.018	1928.879	2346.813	3009.026	3426.301	4128.055	5117.680	7355.84
1.02	1563.160	1712.721	1952.668	2175.575	2705.505	3575.096	4010.858	4857.266	5787.629	7599.84
1.01	1762.027	1918.382	2159.103	2418.021	3074.422	4190.941	4630.852	5633.859	6450.441	7791.54

1-4340.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DELAWARE RIVER AT PORT JERVIS, N. Y.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1905	56800.0 28	52800.0 10	41800.0 7	34700.0 4	22700.0 5	14000.0 18	10600.0 33	10100.0 25	8310.0 29	5640.0 24
1906	54800.0 33	38000.0 38	30400.0 29	23900.0 23	18500.0 19	13500.0 25	10800.0 31	9790.0 29	8400.0 26	5900.0 22
1907	34300.0 55	27700.0 51	22000.0 48	19100.0 42	13400.0 47	9820.0 47	8030.0 50	7580.0 49	6980.0 45	4540.0 43
1908	76800.0 12	43700.0 27	33200.0 19	24500.0 19	20800.0 10	16200.0 8	14000.0 5	11900.0 4	11100.0 1	7170.0 3
1909	57800.0 25	41400.0 34	32900.0 20	24600.0 18	16800.0 28	13700.0 21	13800.0 6	12370.0 2	9990.0 10	5600.0 27
1910	71300.0 16	56800.0 6	40300.0 9	27900.0 9	20100.0 14	14500.0 15	11800.0 21	10700.0 21	8130.0 31	4460.0 50
1911	48400.0 39	32100.0 46	21100.0 51	19200.0 40	16500.0 30	11100.0 41	9070.0 44	7810.0 47	6730.0 47	4000.0 55
1912	47600.0 41	34900.0 42	32200.0 25	24100.0 21	21600.0 8	17400.0 6	13500.0 9	10900.0 18	8840.0 16	5920.0 21
1913	84000.0 7	54700.0 9	34900.0 14	22900.0 26	17700.0 23	12300.0 30	11700.0 22	10900.0 19	9340.0 12	5610.0 25
1914	92700.0 3	68800.0 3	49500.0 2	36600.0 3	27200.0 4	19000.0 2	13800.0 7	11600.0 2	8680.0 23	5520.0 29
1915	41200.0 47	31700.0 47	20100.0 55	17000.0 49	12700.0 48	12100.0 34	9010.0 45	8420.0 40	6630.0 48	4740.0 40
1916	56800.0 29	51300.0 14	41100.0 8	28300.0 8	22300.0 6	14600.0 14	12400.0 16	11600.0 7	10100.0 7	6680.0 7
1917	53900.0 34	43400.0 29	35200.0 13	27300.0 11	18600.0 17	12300.0 31	10700.0 32	10100.0 22	8050.0 32	5420.0 32
1918	61600.0 19	38100.0 37	22200.0 47	19000.0 43	16500.0 31	14600.0 22	11700.0 23	9920.0 26	7290.0 41	4880.0 36
1919	20500.0 61	16500.0 61	14800.0 61	12100.0 61	9690.0 61	9350.0 50	8820.0 48	7280.0 54	6600.0 50	4640.0 42
1920	50900.0 36	43300.0 30	38000.0 10	31600.0 6	27600.0 3	18100.0 5	13500.0 8	11100.0 14	8730.0 20	6300.0 15
1921	55800.0 32	45500.0 25	34800.0 15	26600.0 14	18600.0 18	13300.0 27	10900.0 29	10100.0 23	9410.0 11	6100.0 17
1922	68000.0 18	46000.0 24	33500.0 17	20800.0 31	16700.0 29	15000.0 11	11700.0 24	11000.0 15	8990.0 15	6320.0 13
1923	49300.0 38	38700.0 36	28300.0 36	22300.0 28	20100.0 15	14000.0 19	11500.0 27	9380.0 33	7310.0 40	4270.0 52
1924	58000.0 24	46200.0 22	31100.0 28	22700.0 27	17500.0 25	14400.0 16	11100.0 26	8940.0 36	8880.0 17	5390.0 31
1925	80100.0 8	49100.0 18	28500.0 34	20100.0 33	14700.0 41	11800.0 37	9750.0 36	8380.0 41	6470.0 53	4840.0 39
1926	38000.0 48	31300.0 49	23400.0 44	16600.0 51	14800.0 39	11300.0 40	9530.0 38	8240.0 44	8010.0 33	5250.0 35
1927	58200.0 23	42500.0 33	32600.0 24	27100.0 12	18000.0 21	12200.0 33	10900.0 30	9750.0 31	8390.0 27	6530.0 9
1928	56900.0 27	51100.0 15	32800.0 21	21700.0 29	20600.0 11	18300.0 3	15200.0 1	12500.0 1	10900.0 2	9880.0 1
1929	56500.0 30	50100.0 17	33400.0 18	23700.0 24	18700.0 16	17100.0 7	14100.0 3	11500.0 8	8540.0 24	5050.0 37
1930	26600.0 59	20300.0 60	16100.0 58	13200.0 60	12000.0 52	9280.0 52	7690.0 55	7640.0 48	6600.0 51	4510.0 48
1931	32100.0 56	27700.0 52	22900.0 46	19700.0 36	15400.0 37	12300.0 32	10300.0 34	9160.0 34	7210.0 42	4200.0 53
1932	35000.0 52	32600.0 44	26000.0 40	21500.0 30	14800.0 40	10300.0 45	9400.0 41	8700.0 38	7330.0 39	4540.0 46
1933	79200.0 9	52000.0 12	28800.0 33	17900.0 45	15500.0 36	11700.0 38	9310.0 43	8120.0 45	7760.0 34	6300.0 14
1934	35500.0 51	23500.0 57	15200.0 60	14000.0 58	12000.0 53	9300.0 51	7490.0 57	6990.0 56	6170.0 55	4610.0 44
1935	46500.0 43	32600.0 45	21600.0 49	14700.0 56	12200.0 49	9950.0 46	8890.0 47	8060.0 46	7730.0 35	5600.0 26
1936	113000.0 2	96600.0 1	62900.0 1	48800.0 1	32200.0 1	20800.0 1	15200.0 2	12200.0 3	10800.0 3	6340.0 12
1937	34400.0 53	26900.0 55	20300.0 54	16100.0 52	14100.0 43	10900.0 42	9730.0 37	9610.0 32	8710.0 21	6580.0 19
1938	89000.0 4	54800.0 8	32800.0 22	18100.0 44	10600.0 59	8750.0 58	8460.0 49	7460.0 50	7030.0 44	6460.0 11
1939	41600.0 46	35500.0 40	26900.0 38	19300.0 39	16200.0 32	13900.0 20	11900.0 20	9910.0 27	9190.0 14	5580.0 28
1940	86900.0 5	67700.0 4	47900.0 3	41700.0 2	29600.0 2	18100.0 4	14000.0 4	11300.0 12	8240.0 30	5490.0 30
1941	36800.0 50	30100.0 50	20600.0 53	16700.0 50	12200.0 50	8120.0 61	6780.0 61	7130.0 55	6440.0 54	4080.0 54
1942	84400.0 6	51600.0 13	29300.0 31	17300.0 48	12000.0 54	9130.0 54	9400.0 42	8270.0 43	6740.0 46	4510.0 47
1943	72800.0 14	46000.0 23	28400.0 35	20200.0 32	15600.0 34	12000.0 35	12400.0 17	11400.0 9	10100.0 8	7660.0 4
1944	30200.0 58	24300.0 56	15500.0 59	13400.0 59	11600.0 55	10400.0 43	8020.0 51	6650.0 57	5540.0 59	3740.0 58
1945	48200.0 40	42600.0 32	37100.0 11	25000.0 16	21600.0 9	14700.0 13	13000.0 11	11400.0 10	10000.0 9	6800.0 6
1946	41700.0 45	33800.0 43	25000.0 42	19100.0 41	13700.0 46	8740.0 59	9000.0 46	8280.0 42	7350.0 38	5950.0 19
1947	58900.0 21	42800.0 31	29000.0 32	20000.0 34	17000.0 27	14000.0 17	12500.0 14	10800.0 20	9250.0 13	6160.0 16
1948	72700.0 15	64600.0 5	47000.0 4	32200.0 5	22300.0 7	15500.0 9	13100.0 10	11100.0 13	8370.0 28	5440.0 31
1949	78300.0 10	48300.0 19	31300.0 27	24900.0 17	15700.0 33	11900.0 36	9990.0 35	9150.0 35	7690.0 36	4600.0 45
1950	58900.0 22	47100.0 21	32800.0 23	27700.0 10	18300.0 20	13500.0 26	11100.0 28	9760.0 30	8790.0 18	5650.0 23
1951	77400.0 11	52600.0 11	35400.0 12	26500.0 15	17200.0 26	13600.0 23	12800.0 12	11700.0 5	10800.0 4	6500.0 10
1952	50400.0 37	31500.0 48	24400.0 43	19800.0 35	17700.0 24	13600.0 24	12400.0 15	11000.0 16	10200.0 6	7240.0 2
1953	75400.0 13	50600.0 16	29600.0 30	17600.0 46	14100.0 44	13100.0 28	11600.0 25	11400.0 11	10300.0 5	5930.0 20
1954	31500.0 57	22300.0 58	18200.0 57	15100.0 54	11400.0 57	8820.0 56	9440.0 40	8540.0 39	7490.0 37	4460.0 49
1955	163000.0 1	78800.0 2	42500.0 6	23600.0 25	13700.0 45	8760.0 57	7350.0 58	6610.0 59	6620.0 49	5190.0 36
1956	60500.0 20	43500.0 28	28200.0 37	24300.0 20	20200.0 13	15000.0 10	12500.0 13	10900.0 17	8500.0 25	6820.0 5
1957	34300.0 54	27500.0 54	21200.0 50	14400.0 57	9970.0 60	8260.0 60	6880.0 60	6570.0 60	5840.0 57	3820.0 56
1958	53900.0 35	43700.0 26	32000.0 26	26600.0 13	20600.0 12	14800.0 12	12000.0 18	10100.0 24	8790.0 19	5310.0 34
1959	37900.0 49	27600.0 53	19500.0 56	14900.0 55	11600.0 56	9190.0 53	7990.0 52	7300.0 51	6490.0 52	4340.0 51
1960	69100.0 17	56400.0 7	44900.0 5	29200.0 7	17900.0 22	11300.0 39	9500.0 39	8880.0 37	8690.0 22	6660.0 8
1961	56400.0 31	39200.0 35	25700.0 41	19500.0 37	14500.0 42	12700.0 29	12000.0 19	9880.0 28	7140.0 43	4690.0 41
1962	42500.0 44	35600.0 39	23300.0 45	19400.0 38	14900.0 38	10400.0 44	7790.0 54	7300.0 52	5650.0 58	3900.0 61
1963	57600.0 26	47500.0 20	34600.0 16	23900.0 22	15500.0 35	9710.0 49	7580.0 56	6380.0 61	5270.0 61	3630.0 60
1964	47400.0 42	35100.0 41	26200.0 39	17500.0 47	12200.0 51	9780.0 48	7800.0 53	7280.0 53	5920.0 56	3710.0 59
1965	15000.0 63	12900.0 63	9270.0 63	6560.0 63	5190.0 63	4220.0 63	4300.0 63	3760.0 63	3120.0 63	2030.0 63
1966	16800.0 62	13800.0 62	11600.0 62	9450.0 62	8530.0 62	6180.0 62	5730.0 62	5260.0 62	4220.0 62	2840.0 62
1967	24900.0 60	22000.0 59	20700.0 52	15500.0 53	10700.0 58	8860.0 55	7350.0 59	6620.0 58	5300.0 60	3750.0 57

1-4340.00 DELAWARE RIVER AT PORT JERVIS, N. Y.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	56300.000	41455.555	29401.109	21900.156	16553.648	12389.203	10485.395	9275.555	7906.348	5315.711
VARIANCE	5.882x10 ⁸	2.193x10 ⁸	9.649x10 ⁷	5.249x10 ⁷	2.493x10 ⁷	1.041x10 ⁷	5.895x10 ⁶	3.748x10 ⁶	2.805x10 ⁶	1.568x10 ⁶
STD DEV	24252.926	14809.020	9822.898	7244.742	4993.000	3226.843	2427.966	1935.916	1674.924	1252.241
SKEWNESS	1.472	.650	.652	1.104	.770	.234	-.140	-.403	-.267	.408
SE OF SKEW	.302	.302	.302	.302	.302	.302	.302	.302	.302	.302
SER CORR	-.110	-.125	-.133	-.066	-.056	.058	.125	.218	.296	.251
C OF VAR	-.431	.357	.334	.331	.302	.260	.232	.209	.212	.236

LOGS

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN OF	4.712	4.588	4.443	4.318	4.199	4.077	4.008	3.957	3.887	3.713
VAR OF	.036	.028	.024	.021	.018	.015	.012	.010	.010	.012
STD DEV OF	.189	.167	.153	.145	.135	.121	.109	.100	.102	.109
SKEW OF	-.446	-.664	-.588	-.450	-.527	-.811	-.804	-1.099	-1.146	-.831
SE OF SKEW OF	.302	.302	.302	.302	.302	.302	.302	.302	.302	.302
SER CORR OF	.050	.035	-.004	.082	.078	.172	.201	.280	.378	.361
C OF VAR OF	.040	.036	.035	.033	.032	.030	.027	.025	.026	.029

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	16296	13223	10522	8595	6839	5313	4924	4435	3714	2493
1.05	23958	19327	14729	11552	9109	7141	6416	5842	4938	3255
1.11	29033	23237	17365	13386	10492	8223	7281	6639	5631	3696
1.25	36193	28571	20919	15851	12322	9611	8374	7619	6484	4252
2.00	53221	40425	28724	21299	16254	12405	10529	9435	8056	5343
5.00	74763	53870	37559	27626	20632	15181	12626	11013	9402	6394
10.00	87756	61211	42425	31227	23033	16546	13644	11694	9973	6900
25.00	102797	69044	47680	35239	25632	17894	14643	12296	10470	7392
50.00	113094	74018	51063	37903	27313	18693	15233	12617	10730	7680
100.00	122693	78384	54069	40334	28816	19358	15723	12861	10925	7918

STATISTICS OF MONTHLY MEANS, 1905-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1905-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	3171.	2627.	1.917	.8284	4.856	.384	3.376	.3350	.0617	.0992	7.822	.576
NOV	5091.	3391.	.8590	.6660	7.798	.605	3.597	.3353	-.5055	.0932	8.335	.672
DEC	5594.	3183.	.8516	.5689	8.568	.500	3.672	.2723	-.4351	.0742	8.509	.615
JAN	5793.	3056.	.6267	.5275	8.872	.204	3.692	.2689	-.7061	.0728	8.556	.276
FEB	5308.	3131.	1.208	.5900	8.129	.256	3.655	.2498	.0628	.0683	8.470	.248
MAR	10960.	4863.	1.105	.4438	16.78	-.221	4.000	.1893	-.0413	.0473	9.269	-.189
APR	11880.	4540.	.8574	.3822	18.19	-.204	4.043	.1692	-.2874	.0418	9.370	-.198
MAY	6377.	2806.	.6441	.4400	9.766	.110	3.763	.1936	-.0116	.0514	8.720	.108
JUN	3727.	2198.	1.713	.5896	5.708	.299	3.511	.2237	.4972	.0637	8.136	.367
JUL	2738.	2207.	1.775	.8062	4.193	.542	3.330	.2938	.5655	.0882	7.718	.517
AUG	2283.	2029.	2.866	.8886	3.496	.407	3.248	.2971	.4879	.0915	7.526	.586
SEP	2378.	2007.	2.117	.8443	3.641	.573	3.265	.2997	.4644	.0918	7.567	.685

1-4385.00 DELAWARE RIVER AT MONTAGUE, N. J.

Location.--Lat 41°18'30", long 74°47'50", 0.4 mile upstream from toll bridge.

Drainage area.--3,480 sq mi.

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 DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1941			3	3	6	11	10	6	20	17	41	20	16	31	34	36	21	25	13	17	6	5	8	7	3	1	2	2	1							1736798.0
1942			12	8	3	10	12	21	7	23	48	21	48	20	27	17	10	13	13	18	11	4	7	4	1	3										1958523.0
1943		1	1	2	10	7	7	9	16	13	14	11	3	8	10	29	26	35	23	33	22	20	18	16	7	10	6	4	1	2		1	1	1		3063290.0
1944			3	7	19	14	20	14	31	17	37	27	21	17	20	27	13	15	7	12	9	12	9	4	3	4	2	2								1610736.0
1945						2	5	23	5	9	8	24	36	26	23	20	29	24	33	19	16	23	14	5	5	5	4	4	2	1						2980209.0
1946				2	2		3	6	17	18	16	10	34	35	36	29	22	33	25	17	17	18	6	7	3	4			3	2						2575017.0
1947							2	4	9	30	45	30	42	26	15	15	19	14	24	19	22	16	11	7	5	5	3			1						2592940.0
1948					5	8	4	1	18	23	24	35	24	36	18	31	19	21	17	22	9	11	13	7	7	2	2	1	4	1			1	1	1	2403052.0
1949		1	4	7	8	13	20	21	24	16	30	13	5	15	19	22	21	27	29	22	8	18	9	2	3	1	3			1	2					2011049.0
1950					3	6	3	7	11	8	20	19	26	27	26	31	31	37	28	13	13	9	6	3	2	3	1	2	2							2395416.0
1951						6	11	16	13	31	20	26	32	31	17	15	13	16	19	24	25	17	8	7	4	5	2	2	1	1	1	1	1	1		2774902.0
1952						1	6	4	7	13	18	23	23	14	20	19	23	15	27	30	26	27	22	16	7	12	3	6	3	1	1					3155104.0
1953			8	7	16	17	14	23	30	15	14	7	5	7	12	16	10	22	20	25	19	25	14	7	6	6			3							2611117.0
1954			2	12	11	20	25	22	13	10	6	15	22	20	18	13	21	16	24	27	15	8	14	12	10	4	2	2	1							1834224.0
1955					2	9	16	23	22	11	22	22	13	33	24	24	22	27	21	19	16	17	11	4	3	1	1					1			1	2117706.0
1956									18	21	25	23	18	27	24	20	31	34	21	11	10	12	12	7	7	6	5	2								2806770.0
1957							4	23	38	21	46	44	26	22	26	25	19	18	12	11	5	11	7	2	2	2			1							1528010.0
1958							1	6	13	30	45	37	28	22	27	18	18	11	17	13	18	15	7	10	5	7	8	3	2	1			3			2141902.0
1959								8	32	31	61	23	20	27	23	23	22	23	19	16	9	11	10	2	1	1	1			2						1728620.0
1960								4	4	23	21	31	28	33	49	29	38	17	21	20	11	11	4	3	7		4	2	3	2			1			2673640.0
1961							1	3	28	39	53	47	26	36	17	12	17	11	9	9	10	15	10	7	2	6	2	1	1	2	1					1945039.0
1962								11	92	48	52	23	22	18	16	18	9	7	4	9	4	15	8	2	1	3	1			1	1					1428850.0
1963								9	35	34	46	39	34	48	38	27	16	9	6	6	3	2	2	1	2	3	1	1								1482210.0
1964			1	4	1	2	6	21	63	30	37	19	21	34	20	18	10	22	16	14	7	8	4	2	2	1	1									1514964.0
1965			3	11	8	22	67	52	40	13	21	19	24	29	9	10	9	11	7	6	1	1	1	1												842796.0
1966							2	14	10	25	64	26	43	35	20	29	17	10	17	16	14	10	5	4	2	2										1161998.0
1967								1	5	24	33	44	49	36	16	24	17	22	7	14	7	4	11													1545250.0

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
1	412.00	4	9841	100.0	9	1600.00	535	9207	83.2	19	6900.00	468	2914	25.5	27	71000	41	120	1.3
2	400.00	35	9857	100.0	10	1800.00	434	7672	77.6	19	6100.00	492	2748	20.8	28	36000	25	88	4.3
3	370.00	64	9872	99.6	11	2200.00	766	6838	69.3	20	9600.00	726	1556	15.8	29	43000	21	53	4.5
4	340.00	110	9768	99.0	13	3000.00	759	5554	56.2	21	11000.00	746	1238	12.6	30	50000	15	32	3.2
5	300.00	155	9668	97.9	14	3600.00	591	4797	49.6	22	13000.00	711	884	9.7	31	60000	6	17	1.1
6	260.00	229	9493	96.3	15	4200.00	624	4256	42.7	23	16000.00	172	573	5.8	32	70000	4	11	1.1
7	1100.00	374	9259	93.9	16	5000.00	595	3592	36.3	24	19000.00	103	401	4.1	33	83000	6	7	0.7
8	1300.00	727	8934	90.6	17	5800.00	563	3977	31.2	25	26000.00	100	298	3.0	34	96000	1	1	0.0

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

DELAWARE RIVER AT MONTAGUE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	825.0 14	1090.0 17	1460.0 21	1610.0 23	1810.0 25	2360.0 25	2770.0 25	2770.0 23	3710.0 23	7470.0 22
1941	498.0 4	540.0 2	595.0 2	705.0 3	777.0 2	849.0 2	1080.0 2	1200.0 5	1490.0 3	4150.0 4
1942	1100.0 21	1160.0 20	1710.0 26	1900.0 26	2640.0 26	2840.0 26	2960.0 26	3930.0 26	5890.0 26	8390.0 25
1943	428.0 2	586.0 6	707.0 6	757.0 6	818.0 6	967.0 4	1190.0 6	1420.0 8	2970.0 17	5500.0 17
1944	563.0 8	601.0 7	680.0 5	745.0 5	796.0 5	968.0 5	1320.0 8	1400.0 7	1780.0 6	5870.0 18
1945	2270.0 27	2470.0 27	2680.0 27	3270.0 27	4060.0 27	5770.0 27	6520.0 27	7710.0 27	7560.0 21	8830.0 21
1946	694.0 11	969.0 14	1330.0 17	1460.0 19	1560.0 18	2110.0 24	2350.0 22	2300.0 19	2450.0 13	5210.0 17
1947	689.0 10	913.0 12	1220.0 16	1280.0 13	1370.0 13	1810.0 19	2730.0 24	3680.0 25	3490.0 20	7960.0 20
1948	747.0 12	803.0 10	1120.0 12	1320.0 14	1400.0 14	1450.0 12	1640.0 13	1960.0 14	2670.0 16	6760.0 16
1949	463.0 3	551.0 3	788.0 7	893.0 7	1040.0 8	1090.0 7	1150.0 5	1190.0 4	1610.0 4	5070.0 17
1950	982.0 18	1100.0 18	1140.0 13	1380.0 16	1540.0 17	2010.0 22	2330.0 21	2600.0 21	3520.0 21	8410.0 20
1951	1060.0 20	1120.0 19	1420.0 19	1450.0 18	1790.0 23	2050.0 23	2530.0 23	2770.0 22	3130.0 18	7330.0 20
1952	675.0 9	765.0 9	982.0 10	1080.0 10	1160.0 10	1390.0 11	1940.0 16	2040.0 16	3640.0 22	8330.0 20
1953	499.0 5	524.0 1	639.0 4	741.0 4	783.0 3	989.0 6	970.0 2	1120.0 3	1830.0 7	5690.0 17
1954	412.0 1	551.0 4	616.0 3	661.0 2	690.0 1	775.0 1	1000.0 3	1040.0 1	2140.0 11	5130.0 11
1955	844.0 15	952.0 13	1100.0 11	1200.0 11	1240.0 11	1570.0 15	1910.0 15	2940.0 24	5290.0 25	6910.0 20
1956	1380.0 26	1390.0 25	1430.0 20	1510.0 20	1610.0 19	1830.0 20	2010.0 19	2190.0 18	2460.0 14	5820.0 17
1957	929.0 17	970.0 15	1150.0 14	1220.0 12	1300.0 12	1380.0 10	1400.0 9	1440.0 9	1640.0 5	4310.0 10
1958	1200.0 24	1310.0 24	1500.0 24	1670.0 25	1710.0 21	1800.0 18	1960.0 17	2060.0 17	3240.0 19	6180.0 17
1959	1160.0 23	1300.0 23	1480.0 23	1590.0 22	1710.0 22	1730.0 17	1770.0 14	1810.0 13	2580.0 15	5490.0 15
1960	1350.0 25	1480.0 26	1570.0 25	1630.0 24	1810.0 24	1890.0 21	2130.0 20	2370.0 20	3730.0 24	6260.0 17
1961	1030.0 19	1250.0 22	1470.0 22	1550.0 21	1610.0 20	1720.0 16	2000.0 18	1970.0 15	2150.0 12	4830.0 17
1962	1110.0 22	1220.0 21	1380.0 18	1440.0 17	1460.0 16	1510.0 14	1510.0 11	1550.0 10	1840.0 8	4260.0 17
1963	558.0 7	617.0 8	856.0 8	926.0 8	1130.0 9	1370.0 9	1450.0 10	1600.0 12	1850.0 9	4230.0 9
1964	760.0 13	804.0 11	925.0 9	942.0 9	988.0 7	1100.0 8	1210.0 7	1290.0 6	1420.0 2	2890.0 6
1965	522.0 6	554.0 5	565.0 1	596.0 1	783.0 4	905.0 3	953.0 1	1070.0 2	1180.0 1	2740.0 1
1966	894.0 16	1060.0 16	1160.0 15	1330.0 15	1420.0 15	1500.0 13	1520.0 12	1560.0 11	1850.0 10	3250.0 10

1-4385.00 DELAWARE RIVER AT MONTAGUE, N. J.

LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	14	30	60	90	120	183	ANNUAL
MEAN	875.629	987.037	1173.074	1290.963	1444.629	1693.815	1937.148	2184.444	2855.926	5826.293
VARIANCE	158562.500	175358.250	207750.625	289188.062	469261.437	913363.687	1180679.000	1803694.000	2189294.000	2991286.000
STD DEV	398.199	418.758	455.797	537.762	685.026	955.700	1086.590	1343.017	1479.626	1729.533
SKEWNESS	1.671	1.652	1.194	1.800	2.291	3.148	3.026	2.905	1.649	.060
SE OF SKEW	.448	.448	.448	.448	.448	.448	.448	.448	.448	.448
SER CORR	-.010	.036	-.007	-.041	-.118	-.057	-.002	-.078	-.162	.269
C OF VAR	.455	.424	.389	.417	.474	.564	.561	.615	.518	.297

LOGS

MEAN OF	2.905	2.961	3.039	3.079	3.123	3.185	3.243	3.288	3.409	3.745
VAR OF	.033	.029	.028	.028	.031	.034	.035	.040	.039	.019
STD DEV OF	.180	.170	.166	.168	.175	.185	.186	.200	.198	.139
SKEW OF	.306	.281	-.064	.138	.529	.929	.936	1.024	.528	-.565
SE OF SKEW OF	.448	.448	.448	.448	.448	.448	.448	.448	.448	.448
SER CORR OF	.061	.093	.035	.013	-.056	-.058	.043	-.041	-.067	.432
C OF VAR OF	.062	.057	.055	.054	.056	.058	.057	.061	.058	.037

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	335.909	399.994	441.839	508.099	608.500	762.469	870.051	939.442	1063.625	2319.446
20.00	421.450	497.240	579.651	645.577	730.237	865.183	986.842	1060.843	1306.904	3135.966
10.00	479.182	562.026	668.862	735.863	814.240	942.517	1074.986	1155.501	1477.905	3636.546
5.00	563.762	655.900	794.302	864.891	939.636	1065.470	1215.380	1309.915	1737.347	4301.004
2.00	786.646	898.464	1098.684	1189.290	1281.621	1435.883	1639.564	1794.867	2466.437	5730.848
1.25	1131.031	1262.980	1511.019	1655.930	1838.244	2122.753	2429.229	2746.182	3705.810	7317.484
1.11	1384.269	1525.056	1780.843	1978.727	2266.608	2709.833	3106.332	3597.910	4694.156	8182.348
1.04	1733.383	1879.945	2118.255	2401.834	2880.679	3628.966	4169.305	4986.008	6152.602	9112.141
1.02	2014.994	2161.736	2367.296	2727.952	3394.159	4461.676	5134.758	6290.500	7403.695	9709.246
1.01	2315.410	2458.628	2614.599	3063.371	3958.392	5439.062	6270.266	7868.914	8806.711	10239.613

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DELAWARE RIVER AT MONTAGUE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	41700.0 20	34600.0 20	23600.0 20	19200.0 19	14200.0 19	9520.0 23	8130.0 23	8510.0 17	7700.0 17	4900.0 1
1942	84100.0 6	57600.0 5	32800.0 14	19600.0 18	14300.0 18	10800.0 17	11000.0 13	9690.0 13	7930.0 16	5370.0 1
1943	86200.0 5	52900.0 9	33100.0 12	23400.0 11	18000.0 11	14100.0 11	14700.0 5	13400.0 4	12000.0 5	8390.0 1
1944	34000.0 23	27100.0 23	17900.0 25	15500.0 25	13600.0 20	12400.0 13	9610.0 17	7960.0 20	6590.0 21	4460.0 2
1945	56000.0 15	49100.0 11	42800.0 4	29300.0 4	25200.0 2	17300.0 2	15500.0 1	13700.0 1	12100.0 3	8160.0 1
1946	45700.0 18	38400.0 16	27800.0 17	21700.0 15	15600.0 16	10000.0 21	10300.0 16	9530.0 15	8890.0 13	7050.0 1
1947	68000.0 10	49100.0 12	32900.0 13	22700.0 13	19400.0 8	15900.0 5	14400.0 6	12400.0 7	10700.0 6	7100.0 1
1948	83300.0 7	75200.0 2	54700.0 1	37500.0 1	25800.0 1	18000.0 1	15300.0 2	13100.0 5	9990.0 8	6570.0 1
1949	90100.0 2	56500.0 6	36900.0 6	28900.0 5	18400.0 10	14000.0 12	11800.0 12	10800.0 12	9160.0 12	5510.0 1
1950	61000.0 11	49000.0 13	35000.0 8	29700.0 3	20000.0 6	15200.0 9	12700.0 11	11100.0 11	10100.0 7	6560.0 1
1951	89300.0 3	60400.0 3	40700.0 5	28900.0 6	20000.0 7	15800.0 7	14900.0 3	13500.0 3	12500.0 1	7600.0 1
1952	51200.0 16	34900.0 19	27800.0 18	22900.0 12	20400.0 5	15900.0 6	14700.0 4	12800.0 6	12100.0 4	8620.0 1
1953	86500.0 4	55600.0 7	33400.0 11	20400.0 17	17200.0 12	15700.0 8	14000.0 7	13700.0 2	12500.0 2	7150.0 1
1954	32400.0 24	24100.0 24	19700.0 24	16400.0 22	12600.0 22	9800.0 22	10500.0 14	9500.0 16	8390.0 14	5030.0 1
1955	187000.0 1	92700.0 1	48700.0 2	27100.0 8	15600.0 17	9490.0 24	8030.0 24	7270.0 23	7340.0 18	5800.0 1
1956	72600.0 9	53000.0 8	34300.0 10	26400.0 9	22100.0 4	16300.0 4	13600.0 8	11900.0 8	9430.0 11	7670.0 1
1957	37400.0 22	30300.0 21	23200.0 21	15900.0 24	10900.0 25	9100.0 25	7520.0 25	7230.0 24	6380.0 22	4190.0 2
1958	57400.0 14	46700.0 14	34600.0 9	28800.0 7	22500.0 3	16400.0 3	13200.0 10	11200.0 9	9730.0 9	5870.0 1
1959	38800.0 21	29500.0 22	20900.0 23	16300.0 23	12600.0 23	10100.0 20	8700.0 18	7940.0 21	7070.0 19	4740.0 1
1960	72800.0 8	58600.0 4	47000.0 3	31300.0 2	19300.0 9	12200.0 14	10300.0 15	9660.0 14	9440.0 10	7310.0 1
1961	58800.0 12	42800.0 15	28100.0 15	21800.0 14	16300.0 14	14400.0 10	13600.0 9	11200.0 10	8100.0 15	5330.0 1
1962	45400.0 19	36500.0 17	24500.0 19	20700.0 16	16200.0 15	11300.0 15	8500.0 20	7990.0 19	6190.0 23	3910.0 2
1963	58400.0 13	50000.0 10	36800.0 7	25800.0 10	17000.0 13	10700.0 18	8390.0 22	7070.0 25	5850.0 25	4060.0 2
1964	50800.0 17	36100.0 18	27800.0 16	19100.0 20	13400.0 21	10800.0 16	8660.0 19	8070.0 18	6590.0 20	4140.0 2
1965	17000.0 27	14800.0 27	10700.0 27	7300.0 27	5800.0 27	4850.0 27	4960.0 27	4290.0 27	3530.0 27	2310.0 2
1966	17300.0 26	14900.0 26	12600.0 26	10500.0 26	9620.0 26	6980.0 26	6480.0 26	5930.0 26	4740.0 26	3180.0 2
1967	26600.0 25	24000.0 25	22600.0 22	17300.0 21	12100.0 24	10100.0 19	8440.0 21	7600.0 22	6050.0 24	4230.0 2

1-4385.00 DELAWARE RIVER AT MONTAGUE, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	61103.703	44237.035	30774.070	22385.184	16597.035	12486.664	11034.070	9890.367	8558.887	5748.516
VARIANCE	1.111x10 ⁹	3.109x10 ⁸	1.118x10 ⁸	4.538x10 ⁷	2.172x10 ⁷	1.142x10 ⁷	9.360x10 ⁶	6.928x10 ⁶	6.041x10 ⁶	2.834x10 ⁶
STD DEV	33332.668	17632.609	10575.277	6736.727	4660.422	3379.851	3059.488	2632.109	2457.822	1683.569
SKEWNESS	2.024	.585	.242	-.064	-.048	-.220	-.086	-.113	.023	-.022
SE OF SKEW	.448	.448	.448	.448	.448	.448	.448	.448	.448	.448
SER CORR	.018	.065	.022	.221	.130	.232	.270	.304	.439	.383
C OF VAR	.546	.399	.344	.301	.281	.271	.277	.266	.287	.293

LOGS

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN OF	4.731	4.609	4.460	4.327	4.201	4.079	4.025	3.979	3.913	3.740
VAR OF	.052	.036	.028	.023	.019	.017	.017	.016	.018	.019
STD DEV OF	.227	.190	.166	.152	.138	.132	.130	.126	.136	.139
SKEW OF	-.293	-.684	-.813	-1.215	-1.161	-1.008	-.578	-.738	-.700	-.710
SE OF SKEW OF	.448	.448	.448	.448	.448	.448	.448	.448	.448	.448
SER CORR OF	.238	.237	.159	.312	.245	.305	.333	.361	.497	.471
C OF VAR OF	.048	.041	.037	.035	.033	.032	.032	.032	.035	.037

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	14229	11846	9501	7058	5865	4770	4665	4165	3389	2215
1.05	21809	18342	14249	10904	8657	6768	6196	5605	4639	3062
1.11	27104	22667	17291	13313	10359	7972	7120	6465	5400	3580
1.25	34933	28731	21414	16469	12554	9522	8334	7580	6399	4262
2.00	55179	42718	30375	22767	16868	12606	10901	9865	8492	5700
5.00	84058	59194	40051	28519	20793	15534	13690	12208	10706	7224
10.00	103286	68385	45059	31010	22510	16888	15187	13396	11855	8017
25.00	127334	78301	50153	33173	24024	18149	16780	14600	13041	8834
50.00	144958	84641	53238	34292	24823	18851	17793	15330	13772	9337
100.00	162286	90227	55843	35120	25424	19407	18687	15951	14401	9770

STATISTICS OF MONTHLY MEANS, 1941-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	3019.	3215.	2.878	1.065	4.374	.479
NOV	5197.	3402.	.5878	.6546	7.529	.639
DEC	6199.	3307.	.5560	.5335	8.980	.422
JAN	6162.	3243.	.8934	.5263	8.927	.628
FEB	5950.	2862.	1.093	.4810	8.619	.576
MAR	10920.	4548.	1.102	.4163	15.82	.085
APR	12040.	4752.	.2720	.3948	17.44	-.069
MAY	7580.	3798.	.4716	.5010	10.98	.153
JUN	4014.	2062.	.5799	.5138	5.815	.726
JUL	2886.	2501.	2.485	.8664	4.181	.649
AUG	2642.	2643.	3.570	1.000	3.828	.309
SEP	2417.	1871.	2.486	.7740	3.502	.392

STATISTICS OF LOGS OF MONTHLY MEANS, 1941-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	3.347	.3075	1.234	.0919	7.686	.650
NOV	3.616	.3111	-.1183	.0860	8.304	.633
DEC	3.728	.2467	-.1254	.0662	8.562	.520
JAN	3.730	.2403	-.2775	.0644	8.565	.684
FEB	3.730	.1961	.3495	.0526	8.567	.488
MAR	4.003	.1821	-.2741	.0455	9.192	.062
APR	4.043	.1925	-.6886	.0476	9.285	-.005
MAY	3.821	.2382	-.2980	.0623	8.776	.173
JUN	3.547	.2278	.0278	.0642	8.146	.778
JUL	3.362	.2718	.9946	.0808	7.721	.745
AUG	3.312	.2836	.9425	.0856	7.607	.573
SEP	3.304	.2422	1.183	.0733	7.589	.637

1-4400.00 FLAT BROOK NEAR FLATBROOKVILLE, N. J.

Location.--Lat 41°06'24", long 74°57'09", 1 mile upstream from Flatbrookville.

Drainage area.--65.1 sq mi.

Remarks.--Regulation prior to 1935 significant at low flow; occasional regulation since 1935 probably not significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1924					3	6	4	19	20	22	17	20	17	14	33	11	19	24	24	26	23	14	16	17	3	3	3	5	1	1			1		37004.0	
1925								5	12	11	37	42	43	49	15	19	31	24	15	19	17	10	7	2	2	2				2		1			31007.0	
1926							2	8	12	18	29	15	29	50	28	24	36	32	16	25	11	14	7	5	2	2									30197.0	
1927								7	15	17	16	26	32	38	44	29	28	40	16	16	10	7	4	1	3										43540.0	
1928									7	2	8	11	27	39	39	48	39	51	29	17	20	13	4	3	4	3	2								76922.0	
1929								11	14	17	19	34	57	38	24	23	15	24	10	19	20	13	11	8	3	2	3								32500.0	
1930					1	4	21	25	21	13	20	22	41	29	30	39	29	17	26	11	9	4	1	2											26311.4	
1931							4	23	17	31	34	18	35	24	22	19	26	21	18	21	25	10	11	1	2	3									29044.8	
1932			2	6	7	11	35	48	27	25	17	13	18	23	22	39	16	15	16	8	5	3	3	3				1							23702.4	
1933				1		2	12	18	14	14	7	6	12	23	26	34	36	37	21	31	16	18	11	4	6	7	2	3	2	1	1				53165.4	
1934						1	6	10	29	12	35	43	55	29	28	25	18	18	20	13	10	5	5	1	2										33324.0	
1935							6	14	12	31	27	36	45	50	33	30	31	20	11	6	6	1	3							2					37755.0	
1936							14	24	19	32	21	6	7	10	15	9	39	21	29	34	25	13	11	8	5	4	6	5	2	2	3		1	1	52648.0	
1937								1	22	23	30	17	27	18	21	26	29	24	35	29	24	13	10	7	3	3	2	1							36237.7	
1938									7	10	2	10	14	37	39	52	33	41	36	30	17	10	7	5	3	3	2	1	2	2	1		1		53061.2	
1939							7	7	11	27	19	15	12	14	7	3	14	22	35	29	26	31	25	15	18	14	4	3	3	2	1		1		43909.4	
1940							11	3	1	27	26	48	35	36	26	14	15	16	12	13	11	14	8	15	11	10	4	4	2	2	1	1			38086.3	
1941							12	9	8	7	19	22	35	19	23	28	46	34	25	20	15	12	12	8	3	4	3								30124.5	
1942								9	17	25	13	4	1	5	10	27	33	38	48	31	18	30	19	12	6	9	3	3							36493.1	
1943			2	8	19	13	11	8	7	7	14	6	7	6	12	54	48	34	33	23	16	12	12	1	3	4	2	1			1	1			43753.0	
1944				4	16	12	14	12	16	17	45	33	25	28	21	19	12	13	19	18	11	12	5	7	3	2	1	1							32359.0	
1945							16	24	6	3	1	4	4	20	34	43	25	30	36	31	25	19	12	15	9	6	2								53946.9	
1946					5	8	12	6	21	14	10	11	31	40	30	47	26	20	19	24	11	10	9	3	2	2	2	1	1						37646.0	
1947							13	17	23	44	29	15	28	28	21	13	13	13	26	32	16	13	10	2	1	5					2	1			39043.2	
1948							4	27	25	4	11	9	16	44	28	25	22	17	26	31	22	15	7	6	10	4	4	5	3				1			44238.2
1949					5	41	15	17	25	23	29	24	13	8	14	21	17	32	24	26	13	6	4	2	1					2	1	1			33729.3	
1950					2	7	20	46	35	10	10	15	24	21	29	29	19	26	21	15	9	9	4	7	1	3					3				33138.5	
1951							22	11	30	18	16	17	24	20	20	23	21	10	23	36	25	16	8	8	6	7	1	1			1	1			47297.7	
1952								4	4	7	12	13	24	18	19	12	33	27	20	29	36	26	24	15	14	5	7	10	3	1	2			1	66514.6	
1953							7	15	8	15	20	16	36	24	13	6	6	3	12	19	23	32	39	23	11	14	9	5	2	1	4		1	1	47642.0	
1954							5	17	21	18	16	19	14	11	30	31	13	32	25	22	22	26	15	8	7	6	3	2	1				1		30630.4	
1955							3	4	8	9	19	24	7	8	17	42	21	18	27	31	33	24	28	17	6	4	6	1	4	2			1		1	38382.4
1956									1	11	7	15	32	42	32	19	23	21	30	34	32	24	16	10	11		3					1		1	48290.0	
1957							19	25	17	10	13	10	13	19	27	15	31	22	35	26	19	25	15	5	7	5	1	2	1	1		2			30039.8	
1958							6	6	15	7	22	29	32	15	24	16	15	19	24	16	9	7	22	15	16	11	15	14	5	2	1		1	1	47212.2	
1959								4	9	21	28	14	28	26	35	31	35	24	19	21	27	19	9	6	4	3	1					1			29598.0	
1960								6	13	8	21	22	33	36	53	36	34	29	26	11	4	12	3	5	4	6	1	1	1	1	1				49227.0	
1961								3	14	13	14	20	14	20	60	54	31	14	12	16	13	20	14	10	12	6	3	1				1			42594.0	
1962								1	11	46	29	28	23	15	19	25	30	24	23	21	10	12	12	7	9	8	5	4	2	1					29102.0	
1963							8	21	6	10	10	14	24	12	13	19	23	42	53	41	16	10	11	10	6	5	2	4	2				1			27496.4
1964							3	13	8	28	26	13	8	14	35	16	14	25	13	18	16	19	17	16	15	10	8	3	5	2	1				26384.1	
1965								2	27	47	34	26	26	16	14	22	22	17	14	30	30	21	7	3	1	2	1	1								15838.9
1966							1	2	8	18	20	25	30	23	20	27	32	18	17	20	14	25	19	6	13	12	7	2	3	1	1				20286.0	
1967								1	4	3	8	8	10	28	24	41	34	22	24	25	25	23	24	15	17	8	6	6	4	4	1				36093.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16071	100.0	9	19.00	751	13943	86.8	18	110.0	942	4963	30.9					
1	4.10	4	16071	100.0	10	23.00	823	13192	82.1	19	130.0	1057	4021	25.0					
2	5.00	15	16067	100.0	11	28.00	778	12369	77.0	20	160.0	907	2964	18.4					
3	6.00	36	16052	99.9	12	34.00	962	11591	72.1	21	200.0	611	2057	12.8					
4	7.30	168	16016	99.7	13	42.00	1039	10629	66.1	22	240.0	463	1446	9.0					
5	8.90	273	15848	98.6	14	51.00	1071	9590	59.7	23	290.0	317	983	6.1					
6	11.00	351	15575	96.9	15	62.00	1126	8519	53.0	24	350.0	236	666	4.1					
7	13.00	585	15224	94.7	16	75.00	1371	7393	46.0	25	430.0	152	430	2.7					
8	16.00	696	14639	91.1	17	91.00	1059	6022	37.5	26	520.0	109	278	1.7					

1-4400.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

FLAT BROOK NEAR FLATBROOKVILLE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1924	7.0 6	8.3 10	8.6 9	10.5 12	12.7 13	15.6 13	20.1 17	29.9 23	42.1 22	109.0 26
1925	13.0 25	14.3 28	15.3 29	17.5 31	21.6 31	22.5 26	30.9 27	34.4 26	46.7 24	83.6 14
1926	12.0 22	13.7 26	14.3 25	15.4 26	18.4 28	27.8 31	34.9 31	35.5 27	47.7 25	97.4 18
1927	20.0 37	21.0 38	23.9 39	26.5 38	33.3 38	48.6 39	62.4 40	81.9 40	98.8 38	155.0 40
1928	24.0 40	25.0 40	31.0 40	35.5 40	37.4 40	40.8 38	40.6 33	47.8 33	64.4 31	149.0 39
1929	13.0 26	13.3 24	13.9 23	14.7 22	23.0 34	25.1 30	27.4 26	30.7 25	40.9 21	87.9 15
1930	9.1 13	12.6 22	13.0 22	13.8 20	15.2 20	17.1 16	18.1 14	19.0 11	22.5 8	61.6 3
1931	13.6 28	14.5 29	15.4 30	15.6 28	16.9 25	17.6 17	19.0 15	21.5 15	32.4 15	80.9 12
1932	6.2 3	8.0 8	8.0 7	9.2 9	10.6 7	14.2 11	16.6 11	30.3 24	40.7 26	108.0 24
1933	13.6 29	13.8 27	14.5 27	14.8 23	16.8 23	21.8 25	42.1 35	60.5 37	80.4 36	117.0 28
1934	15.4 32	15.8 32	17.3 32	19.4 33	22.0 32	34.8 34	46.3 37	54.1 35	67.5 33	113.0 29
1935	20.0 38	20.3 36	20.6 35	20.8 34	22.6 33	31.2 33	33.3 30	68.4 39	66.8 32	142.0 37
1936	12.0 23	12.0 20	12.0 19	13.0 19	13.3 14	15.9 14	18.0 13	20.1 12	29.8 13	96.1 16
1937	14.5 35	18.8 34	20.2 34	22.7 35	24.3 35	36.9 36	44.2 34	44.2 32	69.6 34	108.0 25
1938	34.0 41	35.0 41	36.9 41	41.6 41	55.2 41	87.7 43	117.0 43	129.0 43	140.0 43	168.0 42
1939	8.0 10	8.4 11	8.9 10	9.1 8	10.7 8	12.9 9	14.7 8	15.8 7	21.7 6	68.4 5
1940	16.5 33	16.9 33	17.5 33	17.7 32	19.8 29	36.3 35	42.5 36	43.6 31	71.4 35	123.0 31
1941	9.2 14	9.2 13	9.3 11	9.8 10	11.1 9	11.9 6	14.7 9	16.9 9	28.1 12	71.1 7
1942	35.0 42	36.7 42	43.0 42	55.0 43	65.2 43	86.8 42	89.7 41	98.8 41	116.0 41	146.0 38
1943	7.0 7	7.4 6	7.4 4	8.2 5	9.3 5	10.7 5	13.2 7	17.7 10	30.1 20	77.8 10
1944	8.7 12	8.9 12	9.5 12	10.6 13	14.1 18	18.6 21	22.8 22	22.5 17	34.6 16	101.0 21
1945	45.0 43	46.0 43	48.6 43	53.9 42	63.6 42	85.5 41	113.0 42	122.0 42	128.0 42	157.0 41
1946	9.8 15	10.0 15	10.6 15	11.9 16	13.9 17	19.0 23	22.5 21	21.5 16	24.1 9	72.1 8
1947	14.8 31	15.1 31	15.7 31	16.2 29	16.9 24	24.8 28	31.7 29	54.0 34	61.9 30	135.0 35
1948	11.2 20	11.2 18	11.5 18	12.4 17	13.8 16	14.7 12	20.3 18	24.5 19	35.2 17	116.0 30
1949	10.5 19	10.5 17	11.0 16	11.3 15	12.0 12	13.4 10	15.0 10	16.0 8	22.3 7	77.6 9
1950	13.5 27	13.7 25	14.4 26	16.2 30	17.2 26	20.1 24	21.4 19	23.1 18	60.2 29	133.0 34
1951	14.0 30	14.5 30	14.7 28	15.5 27	17.9 27	23.0 27	31.0 28	42.2 29	54.0 28	137.0 33
1952	22.0 39	22.0 39	22.1 37	23.1 36	24.8 36	30.8 32	58.8 38	55.6 36	83.9 37	180.0 43
1953	8.0 11	8.0 7	8.2 8	8.8 6	9.5 6	12.2 7	12.8 6	15.2 6	27.9 11	97.4 19
1954	10.0 18	10.3 16	11.4 17	12.9 18	13.4 15	17.1 15	20.1 16	20.3 13	32.3 14	81.3 11
1955	6.8 5	6.8 4	7.6 5	8.9 7	11.2 11	18.1 20	25.7 24	43.6 30	108.0 40	131.0 32
1956	18.0 34	19.0 35	20.7 36	25.4 37	27.0 37	38.1 37	38.4 32	41.4 28	51.2 27	104.0 23
1957	7.4 8	7.4 5	7.8 6	7.9 4	9.0 3	9.8 4	11.7 4	13.5 4	18.9 3	99.1 20
1958	9.8 16	9.8 14	10.3 14	10.8 14	14.9 19	18.7 22	23.1 23	26.2 21	46.5 23	111.0 27
1959	12.0 21	12.3 21	12.7 21	14.0 21	20.7 30	25.0 29	27.3 25	29.5 22	37.8 18	97.0 17
1960	20.0 36	21.0 37	22.7 38	29.6 39	33.4 39	50.2 40	60.8 39	65.8 38	103.0 39	139.0 36
1961	13.0 24	13.0 23	14.1 24	15.1 25	16.4 22	17.9 19	21.8 20	25.8 20	38.3 19	102.0 27
1962	10.0 17	11.7 19	12.6 20	14.9 24	16.0 21	17.6 18	17.6 12	20.3 14	27.4 10	72.7 11
1963	6.3 4	6.5 3	6.7 2	7.0 2	7.8 2	9.3 2	9.8 2	12.9 2	21.1 5	65.6 4
1964	4.9 2	5.0 1	5.3 1	5.6 1	6.5 1	8.4 1	8.7 1	9.5 1	14.1 1	55.0 2
1965	7.5 9	8.3 9	9.6 13	10.5 11	11.1 10	12.2 8	12.8 5	13.8 5	15.8 2	52.7 1
1966	4.1 1	6.2 2	7.2 3	7.9 3	9.2 4	9.7 3	11.2 3	13.2 3	19.0 4	70.0 6
MEAN	13.823	14.470	15.488	17.237	19.993	26.288	32.107	37.965	52.332	105.728
VARIANCE	69.153	71.254	87.948	125.322	180.910	387.077	620.074	782.553	1049.705	1010.586
STD DEV	8.316	8.441	9.378	11.195	13.450	19.674	24.901	27.974	32.399	31.790
SKEWNESS	1.975	2.012	1.995	2.095	2.196	2.116	2.112	1.772	1.206	.392
SE OF SKEW	.361	.361	.361	.361	.361	.361	.361	.361	.361	.361
SER CORR	-.111	-.133	-.134	-.142	-.101	-.096	-.088	-.099	-.106	.053
C OF VAR	.602	.583	.605	.649	.673	.748	.776	.737	.619	.301

LOGS

MEAN OF	1.080	1.105	1.131	1.172	1.233	1.335	1.414	1.487	1.643	2.005
VAR OF	.050	.045	.047	.051	.053	.066	.075	.077	.067	.018
STD DEV OF	.224	.213	.218	.227	.230	.258	.274	.278	.260	.134
SKEW OF	.415	.573	.651	.741	.789	.737	.592	.434	.121	-.180
SE OF SKEW OF	.361	.361	.361	.361	.361	.361	.361	.361	.361	.361
SER CORR OF	.002	-.034	-.064	-.076	-.012	-.012	.043	.051	.057	.151
C OF VAR OF	.207	.192	.192	.193	.187	.193	.194	.187	.158	.067

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1.	3	7	14	30	60	90	120	183	ANNUAL
100.00	4.249	5.024	5.378	5.877	6.807	7.538	7.898	8.498	11.548	47.419
20.00	5.498	6.213	6.578	7.117	8.186	9.378	10.329	11.642	16.801	59.983
10.00	6.385	7.063	7.450	8.037	9.220	10.772	12.157	13.987	20.609	67.742
5.00	7.742	8.373	8.809	9.495	10.874	13.024	15.103	17.734	26.504	78.230
2.00	11.614	12.159	12.821	13.928	15.972	20.139	24.361	29.293	43.440	101.989
1.25	18.323	18.864	20.149	22.373	25.880	34.509	42.903	51.664	72.418	131.238
1.11	23.743	24.395	26.355	29.788	34.725	47.762	59.831	71.408	95.249	148.960
1.04	31.809	32.794	35.995	41.669	49.107	69.908	87.791	102.984	128.246	169.853
1.02	38.772	40.185	44.657	52.651	62.580	91.156	114.298	132.009	155.867	184.500
1.01	46.612	48.646	54.744	65.746	78.827	117.275	146.519	166.366	186.122	198.477

1-4400.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

FLAT BROOK NEAR FLATBROOKVILLE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1924	1790.0 9	1040.0 10	650.0 11	416.0 17	316.0 17	274.0 9	221.0 13	181.0 22	172.0 14	101.0 27
1925	1620.0 11	1050.0 9	626.0 17	396.0 20	290.0 23	228.0 21	182.0 24	161.0 29	122.0 37	85.0 31
1926	487.0 42	351.0 43	282.0 43	235.0 42	196.0 42	166.0 37	141.0 40	125.0 41	121.0 38	82.7 33
1927	655.0 35	497.0 35	462.0 29	344.0 28	275.0 26	206.0 27	177.0 27	166.0 26	145.0 23	119.0 15
1928	1380.0 16	819.0 20	575.0 18	478.0 10	418.0 5	324.0 6	274.0 6	257.0 4	226.0 5	210.0 1
1929	620.0 40	488.0 36	380.0 35	313.0 32	261.0 28	229.0 20	215.0 16	184.0 20	142.0 24	89.0 29
1930	369.0 44	304.0 44	259.0 44	194.0 44	170.0 43	154.0 41	133.0 42	125.0 42	107.0 42	72.1 41
1931	456.0 43	378.0 42	303.0 42	248.0 40	201.0 39	169.0 36	165.0 30	156.0 31	129.0 34	77.6 38
1932	737.0 31	509.0 34	417.0 31	289.0 35	215.0 36	160.0 38	145.0 38	131.0 38	110.0 41	64.8 42
1933	1450.0 14	910.0 14	569.0 19	384.0 23	341.0 12	260.0 14	218.0 14	189.0 15	183.0 9	146.0 4
1934	598.0 41	439.0 41	333.0 38	277.0 36	254.0 29	197.0 31	174.0 29	150.0 32	130.0 32	91.3 27
1935	1080.0 23	841.0 19	478.0 27	276.0 37	196.0 40	158.0 39	141.0 39	145.0 33	130.0 33	103.0 21
1936	2220.0 4	1380.0 3	1000.0 2	833.0 1	613.0 1	397.0 1	305.0 3	267.0 3	243.0 2	144.0 6
1937	656.0 38	461.0 39	406.0 32	309.0 33	226.0 34	190.0 32	180.0 25	176.0 23	157.0 20	99.3 24
1938	2050.0 5	1240.0 6	712.0 8	420.0 16	285.0 24	220.0 25	211.0 18	181.0 21	164.0 18	145.0 5
1939	1840.0 7	1120.0 7	737.0 6	455.0 12	291.0 22	266.0 12	235.0 12	217.0 12	199.0 8	120.0 13
1940	1360.0 17	949.0 12	630.0 16	519.0 6	446.0 3	333.0 5	289.0 5	236.0 7	172.0 15	104.0 19
1941	663.0 36	481.0 37	323.0 39	265.0 39	202.0 38	149.0 43	129.0 43	127.0 39	126.0 35	82.5 34
1942	860.0 26	565.0 30	373.0 36	332.0 29	243.0 32	177.0 35	152.0 35	138.0 36	139.0 27	100.0 23
1943	1150.0 21	774.0 25	490.0 26	392.0 21	250.0 30	221.0 24	201.0 22	195.0 13	176.0 13	120.0 14
1944	812.0 29	554.0 32	397.0 33	319.0 31	277.0 25	255.0 15	204.0 21	171.0 24	133.0 30	88.4 30
1945	685.0 33	572.0 28	517.0 22	430.0 15	346.0 10	250.0 17	239.0 11	222.0 10	214.0 6	148.0 3
1946	1020.0 25	802.0 23	515.0 23	380.0 26	245.0 31	203.0 30	164.0 31	157.0 30	142.0 25	103.0 20
1947	1330.0 18	791.0 24	499.0 24	329.0 30	319.0 15	270.0 10	258.0 10	219.0 11	179.0 12	107.0 17
1948	1180.0 20	845.0 18	720.0 7	481.0 9	381.0 7	302.0 7	273.0 7	235.0 8	182.0 10	121.0 12
1949	2430.0 2	1350.0 4	750.0 4	551.0 5	348.0 9	254.0 16	205.0 20	189.0 16	159.0 19	92.4 26
1950	824.0 28	646.0 26	493.0 25	383.0 24	316.0 18	218.0 26	215.0 15	190.0 14	151.0 21	90.8 28
1951	1460.0 13	869.0 17	642.0 13	433.0 14	345.0 11	294.0 8	269.0 8	235.0 9	213.0 7	130.0 10
1952	2240.0 3	1290.0 5	742.0 5	591.0 3	473.0 2	381.0 2	349.0 1	290.0 1	271.0 1	182.0 2
1953	1820.0 8	1080.0 8	642.0 14	404.0 19	308.0 20	266.0 11	258.0 9	243.0 6	231.0 3	131.0 9
1954	1500.0 12	817.0 21	530.0 21	388.0 22	240.0 33	152.0 42	150.0 37	143.0 34	138.0 27	83.9 32
1955	6310.0 1	2780.0 1	1350.0 1	762.0 2	416.0 6	226.0 22	155.0 34	125.0 40	132.0 31	105.0 18
1956	2000.0 6	1490.0 2	848.0 3	492.0 8	334.0 13	260.0 13	212.0 17	188.0 17	169.0 16	132.0 8
1957	1080.0 22	885.0 15	651.0 10	413.0 18	273.0 27	205.0 28	175.0 28	162.0 27	138.0 28	82.3 35
1958	1400.0 15	964.0 11	710.0 9	582.0 4	442.0 4	366.0 3	319.0 2	274.0 2	231.0 4	129.0 11
1959	680.0 34	461.0 38	318.0 40	273.0 38	217.0 35	179.0 34	151.0 36	136.0 37	119.0 39	81.1 36
1960	1690.0 10	942.0 13	648.0 12	473.0 11	301.0 21	221.0 23	191.0 23	188.0 18	166.0 17	135.0 7
1961	1290.0 19	885.0 16	633.0 15	494.0 7	376.0 8	337.0 4	291.0 4	244.0 5	182.0 11	117.0 16
1962	741.0 30	572.0 29	438.0 30	382.0 25	317.0 16	230.0 19	178.0 26	170.0 25	136.0 29	79.7 37
1963	1040.0 24	809.0 22	563.0 20	443.0 13	315.0 19	203.0 29	163.0 32	140.0 35	118.0 40	75.3 39
1964	832.0 27	556.0 31	394.0 34	293.0 34	196.0 41	188.0 33	161.0 33	162.0 28	124.0 36	72.1 40
1965	698.0 32	514.0 33	346.0 37	213.0 43	146.0 44	113.0 44	105.0 44	92.4 44	73.4 44	43.4 44
1966	634.0 39	439.0 40	308.0 41	244.0 41	212.0 37	157.0 40	140.0 41	121.0 43	95.0 43	55.6 43
1967	661.0 37	594.0 27	467.0 28	345.0 27	329.0 14	237.0 18	207.0 19	187.0 19	147.0 22	98.9 25
MEAN	1281.773	820.432	548.318	397.114	299.068	232.841	202.727	181.600	157.645	105.504
VARIANCE	894957.000	180842.687	43064.277	17398.590	8329.156	4345.832	3250.564	2177.876	1778.430	1034.127
STD DEV	946.021	425.256	207.519	131.904	91.264	65.923	57.014	46.668	42.171	32.158
SKEWNESS	3.647	2.407	1.464	1.227	1.058	.678	.668	.480	.705	.950
SE OF SKEW	.357	.357	.357	.357	.357	.357	.357	.357	.357	.357
SER CORR	.198	.274	.266	.076	-.057	.032	.118	.160	.214	.157
C OF VAR	.738	.518	.378	.332	.305	.283	.281	.257	.268	.305

LOGS

MEAN OF	3.036	2.869	2.712	2.577	2.457	2.350	2.291	2.245	2.183	2.004
VAR OF	.057	.037	.024	.019	.016	.015	.014	.013	.013	.017
STD DEV OF	.238	.194	.154	.137	.128	.122	.120	.112	.115	.131
SKEW OF	.581	.373	.184	.182	.107	.003	.126	-.068	-.056	-.153
SE OF SKEW OF	.357	.357	.357	.357	.357	.357	.357	.357	.357	.357
SER CORR OF	.317	.308	.300	.186	.052	.094	.144	.184	.259	.266
C OF VAR OF	.079	.067	.057	.053	.052	.052	.052	.050	.053	.065

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	384.100	297.119	236.447	189.411	147.818	116.865	105.501	95.351	81.389	48.417
1.05	486.471	374.109	292.575	228.863	178.143	141.396	125.344	114.551	98.144	60.720
1.11	561.293	427.062	329.052	254.030	197.156	156.520	137.698	126.179	108.339	68.303
1.25	678.765	505.934	380.779	289.187	223.324	177.025	154.608	141.702	122.005	78.544
2.00	1030.482	720.147	509.320	374.357	285.043	224.067	194.156	176.359	152.727	101.748
5.00	1686.369	1066.086	691.798	491.208	366.522	283.663	245.824	218.596	190.521	130.383
10.00	2251.077	1330.001	816.969	569.274	419.252	320.904	279.016	244.161	213.570	147.794
25.00	3139.260	1704.976	980.171	669.046	484.967	366.041	320.172	274.392	240.980	168.392
50.00	3945.638	2015.698	1105.469	744.344	533.468	398.534	350.419	295.686	260.384	182.883
100.00	4892.230	2354.381	1234.001	820.575	581.717	430.228	380.420	316.108	279.063	196.754

1-4400.00 FLAT BROOK NEAR FLATBROOKVILLE, N. J.

STATISTICS OF MONTHLY MEANS, 1924-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	50.85	53.82	2.947	1.058	4.012	.376
NOV	93.12	73.13	1.086	.7854	7.346	.589
DEC	108.3	71.16	.8979	.6569	8.545	.446
JAN	112.3	60.20	.8704	.5362	8.857	.520
FEB	123.3	53.70	.9608	.4355	9.726	.157
MAR	203.2	78.72	1.407	.3875	16.03	-.022
APR	200.1	91.08	.8876	.4551	15.79	.234
MAY	130.3	56.94	.6746	.4371	10.28	.465
JUN	79.19	50.50	1.863	.6378	6.247	.441
JUL	59.37	63.99	2.697	1.078	4.684	.754
AUG	57.33	73.46	2.691	1.281	4.523	.377
SEP	50.35	61.81	2.183	1.227	3.972	.548

STATISTICS OF LOGS OF MONTHLY MEANS, 1924-1967

MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
1.549	.3547	.5748	.2290	6.904	.625
1.829	.3670	-.1058	.2006	8.154	.660
1.938	.3023	-.1291	.1560	8.639	.576
1.989	.2365	-.0847	.1189	8.867	.602
2.052	.1879	-.1205	.0916	9.146	.110
2.279	.1610	.0443	.0707	10.16	-.060
2.258	.1996	-.1013	.0884	10.06	.221
2.073	.1964	-.1940	.0947	9.240	.384
1.829	.2417	.3698	.1321	8.153	.517
1.622	.3386	.7972	.2088	7.228	.765
1.540	.4028	.8961	.2616	6.862	.511
1.478	.4172	.7366	.2823	6.588	.800

1-4425.00 BRODHEAD CREEK AT MINISINK HILLS, PA.

Location.--Lat 40°59'55", long 75°08'35", 500 ft upstream from Marshall Creek.

Drainage area.--259 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1951					2	4	7	4	18	27	16	12	16	26	33	18	23	15	12	16	25	27	27	9	7	7	5	3	1	3	1	1				265672.0
1952								3	5	13	21	20	20	19	12	23	9	19	15	31	23	28	38	22	11	12	10	4	1	6	1				350101.0	
1953							10	17	11	49	46	13	6	5	8	8	15	23	34	31	14	22	18	12	10	2	3	2	2	1	2			1		250278.0
1954					23	21	41	15	15	12	14	14	33	22	26	20	11	19	17	21	9	7	12	8	4			1							144748.0	
1955			2	3	13	24	17	14	3	14	21	21	20	29	23	23	29	19	24	26	12	8	5			4	2	3	2		1		1	1	1	210911.0
1956					4	7	8	5	13	27	24	26	17	15	30	30	27	33	28	14	22	19	9	2			1	1	1	2			1			220736.0
1957			12	26	23	12	9	5	7	14	21	14	12	9	22	32	38	29	26	15	10	13	7	2	1	2		2	1	1					159539.0	
1958				4	8	7	11	15	13	32	20	18	29	20	26	17	21	8	8	16	10	16	25	18	9	4	2	6	1				1			229678.0
1959				3	13	12	20	15	15	31	18	14	16	35	25	26	13	22	23	25	9	15	7	4	1	2	1								150932.0	
1960									6	20	23	11	18	14	44	33	38	26	29	29	13	18	17	8	8	4	2	3	1			1				237449.0
1961								1	11	37	44	63	53	25	20	4	9	10	13	13	8	24	11	6	6	2	3	1			1					169776.0
1962					4	50	28	28	28	13	15	7	20	31	21	18	17	17	16	6	9	10	13	8	2	3	1								138566.0	
1963				1	17	18	4	11	14	20	22	12	15	30	33	36	33	26	17	16	9	4	7	7	7	2	2		1		1				142909.0	
1964			18	10	40	13	13	18	16	13	18	20	17	15	16	11	10	14	18	13	13	13	15	10	3	2		3	1						155286.0	
1965					40	35	42	33	12	27	13	14	20	13	10	9	29	29	19	7	2	2	3	3	1		1		1						87010.0	
1966					3	30	18	10	11	12	29	30	24	28	29	24	24	24	16	15	9	10	6	6	3	3	1								124306.0	
1967									12	28	27	26	35	54	40	24	29	16	11	13	13	15	7	4	5	4	2									168120.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	6209	100.0	9	120.00	385	5016	80.8	18	610.0	312	1663	26.8	27	3000	30	67	1.0
1	30.00	18	6209	100.0	10	150.00	389	4631	74.6	19	730.0	303	1351	21.8	28	3600	9	37	.5
2	36.00	25	6191	99.7	11	180.00	333	4242	68.3	20	870.0	198	1048	16.9	29	4300	16	28	.4
3	43.00	136	6166	99.3	12	210.00	390	3909	63.0	21	1000.0	254	850	13.7	30	5200	4	12	.1
4	51.00	182	6030	97.1	13	250.00	394	3519	56.7	22	1200.0	237	596	9.6	31	6200	5	8	.1
5	61.00	211	5848	94.2	14	300.00	395	3125	50.3	23	1500.0	131	359	5.8	32	7400	3	3	.0
6	73.00	222	5637	90.8	15	360.00	372	2730	44.0	24	1800.0	78	228	3.7	33	8800	2	3	.0
7	87.00	178	5415	87.2	16	430.00	375	2358	38.0	25	2100.0	50	150	2.4	34	11000	1	1	.0
8	100.00	221	5237	84.3	17	510.00	320	1983	31.9	26	2500.0	33	100	1.6					

1-4425.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

BRODHEAD CREEK AT MINISINK HILLS, PA.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1951	90.0 13	93.0 13	101.0 13	109.0 13	135.0 13	149.0 12	190.0 13	237.0 13	294.0 13	753.0 15
1952	135.0 16	135.0 15	137.0 15	146.0 15	150.0 14	170.0 14	280.0 16	270.0 15	473.0 15	917.0 16
1953	70.0 10	71.3 10	72.4 10	74.6 10	79.7 9	120.0 11	115.0 9	124.0 9	167.0 8	451.0 7
1954	51.0 8	52.0 8	54.9 8	58.3 7	61.3 5	70.7 4	86.1 7	85.8 5	138.0 6	398.0 6
1955	41.0 3	42.3 3	46.4 4	50.2 4	60.7 4	94.0 9	128.0 10	241.0 14	591.0 16	663.0 14
1956	127.0 15	136.0 16	161.0 16	176.0 16	189.0 16	219.0 16	227.0 15	289.0 16	348.0 14	542.0 12
1957	39.0 2	40.0 2	42.0 2	43.1 2	44.9 2	51.5 2	56.8 2	65.7 2	103.0 2	516.0 10
1958	80.0 11	83.3 11	88.0 12	93.1 12	116.0 12	156.0 13	180.0 12	185.0 11	276.0 12	536.0 11
1959	50.0 6	50.0 6	51.7 5	54.9 5	79.9 10	89.9 8	93.1 8	117.0 8	185.0 9	510.0 9
1960	110.0 14	114.0 14	130.0 14	144.0 14	172.0 15	193.0 15	201.0 14	208.0 12	270.0 11	543.0 13
1961	82.0 12	84.3 12	87.0 11	91.0 11	94.3 11	120.0 10	141.0 11	157.0 10	203.0 10	474.0 8
1962	58.0 9	59.0 9	64.7 9	65.8 9	69.7 8	73.6 7	74.7 5	86.4 6	137.0 5	397.0 5
1963	42.0 4	43.3 4	45.4 3	48.4 3	49.7 3	57.3 3	61.0 3	74.3 3	108.0 3	378.0 4
1964	30.0 1	30.7 1	33.3 1	33.9 1	36.2 1	45.3 1	47.8 1	50.8 1	69.5 1	315.0 2
1965	51.0 7	51.0 7	53.7 6	57.1 6	64.5 6	70.8 5	71.5 4	83.8 4	131.0 4	312.0 1
1966	49.0 5	49.7 5	53.7 7	58.5 8	65.9 7	71.0 6	80.7 6	102.0 7	157.0 7	362.0 3
MEAN	69.062	70.931	76.387	81.494	91.800	109.444	127.106	148.550	228.156	504.187
VARIANCE	1039.796	1130.528	1447.487	1763.844	2191.906	2878.317	4822.773	6231.379	20452.699	26469.191
STD DEV	32.246	33.623	38.046	41.998	46.818	53.650	69.446	78.939	143.013	162.694
SKEWNESS	.922	.920	1.069	1.117	.940	.718	.845	.540	1.403	1.213
SE OF SKEW	.564	.564	.564	.564	.564	.564	.564	.564	.564	.564
SER CORR	.006	-.020	-.085	-.096	-.035	+.007	.137	.230	.154	.517
C OF VAR	.467	.474	.498	.515	.510	.490	.546	.531	.627	.323

LOGS

MEAN OF	1.798	1.808	1.837	1.863	1.913	1.991	2.045	2.112	2.288	2.684
VAR OF	.038	.039	.041	.043	.045	.045	.055	.057	.063	.017
STD DEV OF	.194	.196	.201	.207	.212	.212	.235	.239	.252	.130
SKEW OF	.308	.333	.448	.457	.275	.126	.172	.006	.294	.497
SE OF SKEW OF	.564	.564	.564	.564	.564	.564	.564	.564	.564	.564
SER CORR OF	.055	.038	-.013	-.024	.063	.103	.217	.250	.250	.610
C OF VAR OF	.108	.109	.110	.111	.111	.107	.115	.113	.110	.049

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	24.602	25.113	27.291	28.260	28.985	32.844	33.745	35.949	57.116	268.132
20.00	31.382	31.978	34.180	35.561	38.115	44.584	46.799	52.271	78.634	308.308
10.00	36.019	36.694	38.989	40.689	44.457	52.672	56.026	63.827	94.184	334.882
5.00	42.888	43.708	46.247	48.467	53.971	64.685	70.040	81.309	118.311	373.121
2.00	61.346	62.702	66.438	70.310	80.072	96.886	109.137	129.274	188.553	470.710
1.25	90.643	93.201	100.237	107.372	122.619	147.244	173.823	205.693	312.824	615.050
1.11	112.646	116.337	126.821	136.846	155.206	184.338	223.681	262.294	414.336	717.723
1.04	143.486	149.037	165.571	180.199	201.550	235.301	294.696	339.995	566.246	855.841
1.02	168.723	175.998	198.432	217.259	239.933	276.173	353.480	402.087	697.738	965.010
1.01	195.948	205.262	234.929	258.683	281.716	319.504	417.368	467.612	845.927	1079.717

1-4425.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BROOKHEAD CREEK AT MINISINK HILLS, PA.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1951	6500.0 6	5130.0 4	3310.0 4	2380.0 4	1830.0 4	1580.0 2	1490.0 2	1340.0 2	1190.0 2	728.0 2
1952	7140.0 5	4190.0 6	2760.0 8	2520.0 3	2070.0 3	1780.0 1	1640.0 1	1430.0 1	1350.0 1	957.0 1
1953	10500.0 2	6590.0 2	3810.0 2	2620.0 2	2210.0 2	1400.0 5	1320.0 4	1240.0 3	1180.0 3	886.0 3
1954	3210.0 12	2090.0 15	1680.0 15	1410.0 14	1000.0 16	779.0 16	819.0 14	708.0 14	663.0 11	397.0 13
1955	30500.0 1	15700.0 1	8440.0 1	4950.0 1	2700.0 1	1460.0 4	998.0 6	788.0 12	783.0 6	578.0 7
1956	7200.0 4	5700.0 3	3740.0 3	2370.0 5	1710.0 6	1240.0 7	918.0 9	813.0 8	678.0 10	603.0 6
1957	4840.0 9	4070.0 8	3150.0 7	2070.0 8	1410.0 10	1010.0 11	865.0 11	791.0 11	719.0 9	437.0 10
1958	7320.0 3	4670.0 5	3230.0 5	2370.0 6	1790.0 5	1500.0 3	1340.0 3	1210.0 4	1070.0 4	629.0 5
1959	2960.0 14	2040.0 16	1490.0 17	1330.0 15	1070.0 15	981.0 12	821.0 13	735.0 13	624.0 14	414.0 12
1960	5300.0 7	4100.0 7	3160.0 6	2320.0 7	1480.0 8	1130.0 9	986.0 7	979.0 7	932.0 5	649.0 4
1961	4910.0 8	3560.0 10	2630.0 9	2030.0 9	1590.0 7	1390.0 6	1200.0 5	993.0 5	729.0 8	465.0 8
1962	2680.0 16	2270.0 14	1760.0 13	1530.0 12	1380.0 12	1090.0 10	836.0 12	749.0 9	648.0 12	380.0 15
1963	4660.0 10	3570.0 9	2620.0 10	2010.0 10	1470.0 9	939.0 14	790.0 15	668.0 9	590.0 15	392.0 14
1964	3620.0 11	3080.0 11	2140.0 11	1670.0 11	1210.0 13	1170.0 8	958.0 8	981.0 6	757.0 7	424.0 11
1965	3100.0 13	2280.0 12	1700.0 14	1120.0 17	861.0 17	657.0 17	594.0 17	508.0 17	403.0 17	238.0 17
1966	2310.0 17	1750.0 17	1630.0 16	1310.0 16	1070.0 14	845.0 15	740.0 16	661.0 16	531.0 16	341.0 16
1967	2920.0 15	2270.0 13	1990.0 12	1480.0 13	1400.0 11	973.0 13	881.0 10	794.0 10	637.0 13	461.0 9
MEAN	6451.176	4297.645	2896.470	2087.647	1544.176	1172.000	1011.529	908.117	793.176	516.412
VARIANCE	43238352.000	10592497.000	2627352.000	775056.125	226689.812	95156.125	82171.625	68041.125	68165.187	31054.355
STD DEV	6575.586	3254.612	1620.911	880.373	476.119	308.474	286.656	260.847	261.084	176.222
SKEWNESS	3.402	2.941	2.675	2.198	.844	.265	.901	.698	.855	.889
SE OF SKEW	.550	.550	.550	.550	.550	.550	.550	.550	.550	.550
SER CORR	-.021	.009	.011	.016	.059	.224	.454	.394	.509	.464
C OF VAR	1.019	.757	.560	.422	.308	.263	.283	.287	.329	.341

LOGS

MEAN OF	3.703	3.561	3.418	3.291	3.170	3.054	2.990	2.942	2.878	2.690
VAR OF	.075	.056	.035	.024	.017	.014	.014	.015	.019	.021
STD DEV OF	.274	.238	.188	.155	.131	.117	.117	.122	.138	.146
SKEW OF	1.431	1.049	1.040	.774	.118	-.247	.402	.182	.223	-.031
SE OF SKEW OF	.550	.550	.550	.550	.550	.550	.550	.550	.550	.550
SER CORR OF	.106	.068	.024	.101	.087	.179	.393	.306	.445	.439
C OF VAR OF	.074	.067	.055	.047	.041	.038	.039	.041	.048	.054

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	2220.622	1553.749	1330.082	1044.551	753.672	575.376	564.962	473.181	380.760	222.233
1.05	2429.523	1786.385	1487.667	1185.658	910.789	713.225	647.437	559.902	458.012	280.817
1.11	2624.910	1972.585	1610.370	1286.099	1009.714	796.200	700.534	614.351	507.556	317.907
1.25	2986.250	2283.769	1809.880	1439.033	1146.339	905.997	775.289	689.427	577.091	369.206
2.00	4362.684	3309.758	2430.622	1867.622	1470.569	1145.870	959.052	867.375	747.023	490.604
5.00	7851.516	5484.836	3626.841	2586.793	1902.274	1426.646	1217.092	1104.463	983.266	650.315
10.00	11724.973	7570.680	4680.016	3152.912	2183.588	1590.046	1393.114	1259.302	1142.880	752.795
25.00	19403.617	11184.891	6370.766	3979.714	2536.061	1776.894	1622.160	1453.841	1348.751	879.287
50.00	28055.301	14776.859	7937.973	4683.086	2797.412	1904.443	1797.948	1598.521	1505.412	971.699
100.00	40270.309	19330.219	9812.770	5467.168	3058.356	2023.689	1978.393	1743.350	1665.064	1062.809

STATISTICS OF MONTHLY MEANS, 1951-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	255.3	350.2	3.605	1.371	4.116	.312
NOV	477.7	335.3	1.333	.7019	7.701	.355
DEC	650.7	446.6	.8073	.6864	10.49	.432
JAN	579.7	344.5	.6880	.5943	9.346	.665
FEB	639.8	317.5	1.425	.4962	10.31	.507
MAR	1015.	302.7	-.4921	.2982	16.37	.125
APR	1032.	454.8	.5240	.4405	16.64	.167
MAY	615.4	265.7	.5697	.4317	9.921	.555
JUN	265.9	144.9	1.587	.5451	4.286	.724
JUL	192.0	162.6	1.696	.8469	3.096	.930
AUG	298.4	584.7	3.780	1.959	4.811	-.097
SEP	180.7	153.8	1.684	.8512	2.913	.332

STATISTICS OF LOGS OF MONTHLY MEANS, 1951-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	2.226	.3614	.9944	.1624	7.294	.517
NOV	2.575	.3264	-.4438	.1267	8.438	.554
DEC	2.713	.3090	.0908	.1139	8.890	.531
JAN	2.683	.2855	-.3621	.1064	8.791	.662
FEB	2.763	.1922	.6268	.0696	9.055	.404
MAR	2.985	.1495	-.9103	.0501	9.780	-.065
APR	2.971	.2038	-.2869	.0686	9.736	.111
MAY	2.749	.1980	-.2545	.0720	9.007	.403
JUN	2.375	.2069	.6441	.0872	7.781	.711
JUL	2.168	.3104	.7389	.1432	7.103	.932
AUG	2.173	.4297	1.571	.1978	7.121	.296
SEP	2.137	.3217	.4840	.1505	7.003	.684

1-4435.00 PAULINS KILL AT BLAIRSTOWN, N. J.

Location.--Lat 40°58'44", long 74°57'15", 1,200 ft upstream from bridge on State Highway 94.

Drainage area.--126 sq mi.

Remarks.--Slight regulation; usually not significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1922										5	4	14	5	26	27	25	35	43	28	25	31	14	18	17	24	12	8	1	2			1			64809.0	
1923										4	18	47	38	49	27	14	29	29	16	35	7	8	14	4	8	2	8	4	1		2	1			46946.0	
1924										1	30	31	33	25	20	26	16	9	24	29	40	26	18	21	2	5	5	2	1	1	1			64561.0		
1925										1	1	3	50	50	52	36	41	26	18	21	6	17	12	11	3	12	3		1		1			54196.0		
1926							1	1	6	6	16	11	15	37	41	30	31	31	21	31	19	26	13	12	8	5	1	1	2						56989.0	
1927											1	14	18	21	40	49	37	42	30	19	31	18	14	21	7	3								70124.0		
1928												4	6	17	10	43	45	43	54	39	41	24	18	10	6	3	3							116234.0		
1929							2		7	16	9	21	20	62	49	45	15	18	19	14	18	14	10	14	4	4	3			1				57991.0		
1930	2						3	1	8	22	17	16	25	20	21	38	35	32	32	33	23	13	8	12	3	1									46280.0	
1931							1	1	3	8	27	34	36	38	26	8	26	21	33	49	17	14	5	7	7	2	1			1					47178.0	
1932				1	4	9	18	18	30	40	29	24	16	17	15	15	23	35	28	8	14	6	6	1	4	3	2								41197.9	
1933							4	14	19	16	16	7	3	4	10	11	19	23	55	36	30	20	25	12	10	11	4	3	5	3	2	1			100769.3	
1934											12	25	15	19	21	27	40	52	26	26	33	14	13	15	12	6	4	2	2						55317.0	
1935											1	6	19	30	14	28	37	61	28	29	28	22	21	16	13	3	3	2	1		2	1			59927.0	
1936							1	1	14	26	15	30	24	16	7	20	11	34	24	17	30	27	17	9	7	13	4	6	6	4	1	1		1	98754.7	
1937							2	9	5	14	23	22	23	19	15	20	15	14	31	39	39	27	12	16	8	4	5	3							62794.1	
1938											3	14	2		2	18	27	34	21	41	55	47	35	16	17	7	5	6	3	4	1	3	2	2	94004.0	
1939							1	1	18	28	17	15	18	10	10	5	11	20	18	26	36	31	34	19	17	15	6	4	2	1	1		1		85744.0	
1940							1	2	10	26	24	55	27	22	19	15	21	24	21	15	21	11	9	8	16	7	5	3	4						70390.9	
1941							7	10	10	19	32	20	29	13	18	15	25	21	36	35	18	23	12	15	2	1	3	1							50480.3	
1942				1	6	12	8	15	13	11	9	22	20	41	52	37	24	22	11	15	13	11	4	12	3		1			2					58088.6	
1943											12	20	19	13	10	4	9	11	12	12	38	64	36	35	23	16	9	9	7	1	3	2			79365.0	
1944							5	6	16	13	15	23	30	27	34	32	21	21	23	12	24	19	15	11	6	7	3	2	1						65226.5	
1945											1	17	20	9	4		15	21	38	48	40	34	32	32	19	13	7	5	6	1	2	1			103448.0	
1946											1	11	19	27	15	22	30	42	16	31	42	25	22	22	20	7	5	3	3	1	1				67696.0	
1947							3	12	62	32	25	25	18	17	19	16	18	22	30	20	17	8	6	6	6	3	2	1	3						69772.0	
1948											9	26	30	12	26	39	33	24	23	24	14	23	25	26	10	8	5	5	2	1			1		75821.0	
1949											5	27	45	33	40	20	13	12	18	9	26	20	19	26	18	20	2	3	2		2	1	2	1	1	61154.0
1950							1	7	24	32	18	33	12	7	20	34	22	34	32	19	16	18	13	7	8	2	5					1			61364.2	
1951											17	19	20	26	24	20	29	19	24	21	16	32	30	25	14	13	5	4	4	1	1	1			84600.0	
1952												8	18	11	21	18	23	42	31	40	30	47	16	14	13	12	10	6	4	1	1				132450.0	
1953				1	1	11	16	16	23	16	12	27	21	13	10	7	17	21	18	49	23	21	14	13	5	5		4					1		80944.0	
1954							5	13	30	25	17	14	22	17	17	20	28	23	27	31	22	22	11	6	6	4	2	3							50557.0	
1955				1	4	2	6	13	9	14	12	17	23	23	17	20	17	16	31	45	27	25	12	14	5	3	3	1	1		1		1	2		69402.2
1956											2	9	9	30	42	30	19	22	27	23	49	27	26	19	12	8	4		2	3		2	1		100703.0	
1957							4	23	19	24	9	12	15	29	15	22	34	18	29	30	24	22	11	11	7	2		1	2			2			54402.0	
1958							4	14	19	31	33	29	15	16	19	18	16	16	18	8	16	20	23	21	15	8	3	3							72210.0	
1959							4	9	29	14	24	23	23	36	33	25	27	31	24	35	12	10	3	2			1								52634.0	
1960											2	2	6	9	15	30	40	28	39	53	34	43	17	15	7	10	6	4	2	2	1	1				85316.0
1961												1	13	19	24	28	54	45	52	23	14	16	15	25	8	16	7	2			1	1	1		77878.0	
1962							2	4	16	25	40	29	30	19	26	27	31	16	16	18	15	11	12	11	8	2	4		2			1			48497.0	
1963				3	2	28	25	13	13	13	29	16	25	56	54	21	18	14	5	3	2	6	9	4	5	1									41426.0	
1964							3	45	24	23	23	19	29	13	23	17	18	11	22	21	15	15	14	17	7	6		1							46406.0	
1965											41	70	36	30	13	33	26	11	8	26	42	14	6	2	2	1	2		1		1				24597.0	
1966							3	36	53	37	36	16	25	24	7	20	16	18	20	16	12	9	5	6	2	2	1	1								32640.0
1967											8	10	5	30	36	32	43	17	20	26	39	22	19	18	20	8	4	4							63172.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16801	100.0	9	24.00	573	16029	95.4	18	140.0	1262	7496	44.6	27	820	118	306	1.
1	5.00	2	16801	100.0	10	29.00	856	15456	92.0	19	170.0	1388	6234	37.1	28	1000	70	188	1.
2	6.10	0	16799	100.0	11	36.00	767	14600	86.9	20	210.0	965	4846	28.8	29	1200	49	118	.
3	7.40	1	16799	100.0	12	43.00	1066	13833	82.3	21	250.0	1109	3881	23.1	30	1500	41	69	.
4	9.00	5	16798	100.0	13	53.00	894	12767	76.0	22	310.0	767	2772	16.5	31	1800	13	28	.
5	11.00	11	16793	100.0	14	64.00	954	11873	70.7	23	370.0	764	2005	11.9	32	2200	8	15	.
6	13.00	56	16782	99.9	15	78.00	1129	10919	65.0	24	460.0	400	1241	7.4	33	2700	4	7	.
7	16.00	285	16726	99.6	16	95.00	1322	9790	58.3	25	550.0	331	841	5.0	34	3200	3	3	.
8	20.00	412	16441	97.9	17	120.00	972	8468	50.4	26	670.0	204	510	3.0					

1-4435.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

PAULINS KILL AT BLAIRSTOWN, N. J.

YEAR	1	2	7	14	30	60	90	120	183	ANNUAL
1922	20.0 22	25.3 24	31.3 29	31.8 29	35.0 24	39.8 24	46.6 22	62.7 26	76.7 22	169.0 21
1923	22.0 25	24.0 23	25.7 22	27.5 22	30.0 20	33.0 19	36.2 16	37.6 13	51.2 13	132.0 9
1924	25.0 28	30.7 31	31.3 30	32.5 30	36.3 27	40.8 25	49.9 26	63.1 27	65.1 18	179.0 25
1925	40.0 38	44.0 38	48.4 38	56.8 41	62.4 40	72.4 36	93.7 39	98.6 37	99.9 29	167.0 10
1926	15.0 13	18.7 15	20.6 13	26.9 20	29.9 19	42.3 27	54.8 29	62.5 25	74.0 21	164.0 18
1927	39.0 37	42.7 37	45.9 36	48.9 36	62.1 39	78.3 41	100.0 40	119.0 40	144.0 38	279.0 17
1928	55.9 43	58.0 43	60.3 43	66.0 42	71.2 42	78.0 40	79.5 35	90.9 35	135.0 36	234.0 14
1929	17.0 17	22.0 20	27.3 24	30.1 26	39.3 32	48.0 30	54.8 30	61.6 24	81.3 23	160.0 17
1930	5.0 1	12.3 2	21.6 16	22.5 14	26.7 14	31.1 17	32.4 13	34.0 10	41.1 8	91.2 7
1931	20.0 23	26.0 26	27.1 23	27.3 21	30.6 22	32.6 18	36.3 17	42.2 16	67.7 19	144.0 12
1932	10.0 3	12.6 3	14.7 2	18.6 7	19.4 7	21.1 5	24.0 5	42.7 17	64.3 20	192.0 24
1933	18.0 18	21.3 18	22.4 18	23.3 16	26.8 15	29.8 16	52.8 28	88.2 34	152.0 39	212.0 10
1934	24.0 26	25.7 25	27.4 25	28.1 24	30.4 21	38.9 22	49.9 27	67.5 29	97.8 27	172.0 22
1935	27.0 32	31.3 34	36.1 34	39.9 34	44.1 34	56.3 33	73.3 34	120.0 41	114.0 33	256.0 41
1936	15.3 14	17.7 13	20.8 14	22.4 13	28.4 18	29.7 15	34.4 15	35.9 12	57.4 15	175.0 23
1937	25.0 27	28.0 29	30.4 27	31.4 27	35.7 26	63.2 34	61.9 31	75.1 30	113.0 32	176.0 24
1938	61.0 44	66.0 44	70.9 44	75.6 43	99.0 43	119.0 44	219.0 45	262.0 45	300.0 44	325.0 46
1939	13.0 11	16.7 11	19.1 11	21.2 11	23.1 11	29.4 13	31.2 12	33.3 9	44.3 10	136.0 11
1940	26.0 29	26.3 27	30.6 28	31.4 28	42.5 33	69.3 35	104.0 41	99.0 38	138.0 37	227.0 33
1941	12.6 6	13.4 5	15.0 3	15.8 2	17.1 2	21.5 7	26.4 8	30.7 8	35.9 5	103.0 5
1942	32.0 35	36.3 35	47.3 37	54.5 39	59.7 37	72.6 37	89.5 37	112.0 39	176.0 40	250.0 37
1943	18.0 19	18.5 14	19.4 12	24.5 18	25.4 12	29.5 14	31.1 11	39.1 15	88.9 26	154.0 15
1944	22.0 24	23.0 21	24.6 20	26.4 19	32.1 23	41.9 26	49.8 25	50.3 21	81.6 24	198.0 29
1945	79.0 45	80.0 45	84.0 45	89.9 45	107.0 45	158.0 45	205.0 44	227.0 44	240.0 44	291.0 43
1946	26.0 30	30.0 30	33.0 33	34.9 32	37.2 30	39.2 23	41.7 19	43.1 18	47.4 12	126.0 8
1947	36.0 36	36.7 36	38.1 35	40.4 35	45.2 35	52.3 32	61.9 32	84.9 32	102.0 30	236.0 36
1948	26.0 31	27.0 28	27.9 26	30.1 25	35.3 25	33.5 21	46.1 21	48.3 19	64.8 17	215.0 32
1949	19.2 20	21.7 19	22.9 19	23.9 17	26.8 16	28.1 11	29.5 10	30.2 6	37.7 7	133.0 10
1950	30.0 34	31.0 32	32.3 32	34.9 33	36.7 28	42.4 28	48.4 24	53.4 22	121.0 34	235.0 35
1951	48.0 41	49.0 40	51.0 39	54.4 38	61.2 38	72.9 38	89.9 38	94.5 36	112.0 31	254.0 40
1952	48.0 42	50.0 41	51.7 41	53.4 37	58.6 36	85.9 42	147.0 43	177.0 43	198.0 42	343.0 45
1953	12.0 4	15.7 8	18.1 10	19.4 9	20.7 9	21.8 8	25.7 7	29.1 5	43.5 9	158.0 16
1954	13.0 7	16.0 9	18.0 8	19.6 10	21.5 10	25.0 9	32.6 14	38.2 14	54.5 14	145.0 13
1955	8.0 2	11.0 1	11.6 1	13.4 1	16.4 1	27.6 10	36.4 18	65.6 28	188.0 41	247.0 34
1956	47.0 39	48.3 39	51.4 40	56.6 40	65.3 41	75.2 39	80.6 36	87.3 33	127.0 35	213.0 31
1957	13.0 8	16.0 10	17.0 7	17.6 6	19.1 6	20.8 3	24.5 6	30.3 7	34.0 4	168.0 20
1958	17.0 15	19.3 16	21.6 17	21.8 12	28.2 17	37.8 20	42.5 20	55.1 23	94.5 28	182.0 27
1959	20.0 21	23.3 22	25.4 21	27.9 23	37.2 29	46.5 29	47.0 23	48.9 20	61.2 16	149.0 14
1960	47.0 40	51.3 42	58.6 42	83.0 44	99.4 44	117.0 43	121.0 42	128.0 42	199.0 43	259.0 42
1961	28.0 33	31.0 33	31.6 31	34.2 31	38.2 31	50.3 31	63.9 33	75.1 31	81.9 25	181.0 26
1962	13.0 9	20.0 17	21.4 15	23.1 15	26.4 13	28.4 12	29.2 9	35.1 11	46.9 11	124.0 6
1963	12.0 5	13.0 4	15.4 4	16.5 4	17.8 3	20.1 1	20.4 1	22.4 1	31.3 3	101.0 4
1964	13.0 10	14.3 8	15.6 5	16.3 3	17.8 4	21.3 6	22.3 4	23.3 3	28.5 2	99.2 3
1965	17.0 16	17.7 12	18.1 9	19.3 8	20.4 8	21.0 4	21.3 2	22.5 2	24.7 1	83.2 1
1966	15.0 12	15.3 7	15.7 6	16.6 5	18.7 5	20.8 2	22.2 3	26.1 4	36.1 6	125.0 7
MEAN	25.536	28.402	31.069	34.013	39.162	48.209	59.791	70.742	94.915	184.947
VARIANCE	240.785	237.205	261.705	340.162	495.959	879.747	1930.433	2608.361	3691.419	3672.531
STD DEV	15.517	15.401	16.177	18.443	22.270	29.661	43.937	51.072	60.757	60.601
SKENNESS	1.469	1.452	1.397	1.465	1.598	1.774	2.142	2.063	1.383	.556
SE OF SKEW	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR	.022	.023	-.010	-.011	-.019	.013	-.054	-.095	-.096	.055
C OF VAR	.608	.542	.521	.542	.569	.615	.735	.722	.640	.328

LOGS

MEAN OF	1.338	1.400	1.443	1.480	1.537	1.619	1.693	1.765	1.898	2.244
VAR OF	.061	.045	.041	.043	.046	.053	.067	.070	.071	.021
STD DEV OF	.247	.211	.204	.206	.214	.230	.259	.264	.266	.145
SKEW OF	.063	.441	.450	.584	.580	.554	.646	.485	.112	-.210
SE OF SKEW OF	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR OF	.076	.075	.051	.078	.072	.119	.069	.040	.048	.155
C OF VAR OF	.185	.151	.141	.139	.139	.142	.153	.150	.140	.065

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	5.936	9.503	10.903	12.287	13.538	15.083	16.419	17.630	20.002	76.429
20.00	8.614	12.053	13.686	15.067	16.741	19.059	20.890	23.458	29.444	99.152
10.00	10.529	13.848	15.632	17.050	19.038	21.935	24.235	27.767	36.337	113.381
5.00	13.453	16.576	18.574	20.096	22.583	26.413	29.596	34.601	47.063	132.801
2.00	21.639	24.257	26.787	28.844	32.858	39.608	46.270	55.442	78.140	177.397
1.25	35.098	37.339	40.597	44.196	51.134	63.638	79.194	95.224	131.842	233.069
1.11	45.347	47.769	51.500	56.770	66.270	83.921	108.945	130.029	174.435	267.069
1.04	59.747	63.139	67.441	75.749	89.323	115.289	157.726	185.383	236.284	307.321
1.02	71.499	76.296	80.995	92.365	109.666	143.338	203.707	236.062	288.247	335.615
1.01	84.114	91.017	96.081	111.310	133.010	175.860	259.369	295.898	345.318	362.654

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

PAULINS KILL AT BLAIRSTOWN, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1922	1500.0 25	1040.0 27	786.0 27	609.0 26	526.0 20	429.0 18	352.0 22	308.0 22	256.0 23	178.0 21
1923	1600.0 21	1400.0 17	1030.0 14	787.0 12	584.0 12	395.0 26	309.0 27	272.0 30	215.0 38	129.0 39
1924	1570.0 23	1350.0 18	948.0 19	632.0 23	466.0 27	402.0 24	358.0 20	302.0 25	288.0 17	176.0 23
1925	1520.0 24	1110.0 25	867.0 24	693.0 19	543.0 16	421.0 19	323.0 24	272.0 31	216.0 37	148.0 34
1926	1030.0 34	813.0 35	639.0 37	543.0 35	410.0 36	339.0 34	287.0 33	256.0 34	239.0 29	156.0 31
1927	796.0 45	677.0 43	592.0 38	469.0 38	434.0 32	358.0 30	300.0 30	263.0 32	244.0 28	192.0 16
1928	1410.0 27	1180.0 23	842.0 25	596.0 27	529.0 19	522.0 7	433.0 12	374.0 14	347.0 7	318.0 2
1929	1260.0 29	986.0 29	666.0 35	560.0 32	444.0 30	405.0 22	365.0 17	318.0 20	249.0 26	159.0 30
1930	644.0 46	537.0 45	465.0 45	344.0 45	324.0 42	267.0 42	225.0 44	216.0 44	189.0 43	127.0 42
1931	1000.0 35	800.0 37	586.0 39	372.0 42	272.0 45	245.0 45	224.0 45	226.0 41	204.0 40	129.0 40
1932	967.0 38	808.0 36	759.0 29	530.0 36	385.0 37	281.0 39	256.0 37	238.0 38	192.0 42	113.0 43
1933	2200.0 9	1710.0 10	1230.0 8	903.0 6	767.0 3	497.0 12	409.0 16	359.0 17	346.0 8	276.0 4
1934	1230.0 30	873.0 33	540.0 40	445.0 39	420.0 34	345.0 33	295.0 32	263.0 33	218.0 34	152.0 32
1935	1800.0 14	1480.0 12	961.0 18	562.0 31	342.0 41	283.0 38	241.0 41	227.0 40	197.0 41	164.0 28
1936	3240.0 2	2420.0 3	1700.0 3	1500.0 1	1100.0 1	756.0 1	565.0 2	509.0 1	455.0 2	270.0 6
1937	990.0 37	877.0 32	756.0 31	580.0 30	432.0 33	353.0 32	321.0 25	305.0 23	270.0 21	172.0 25
1938	3140.0 3	2230.0 4	1410.0 4	803.0 11	640.0 11	491.0 13	446.0 11	382.0 12	314.0 14	258.0 7
1939	2380.0 8	1810.0 7	1270.0 6	815.0 10	531.0 18	509.0 9	463.0 9	425.0 4	387.0 4	215.0 8
1940	1430.0 26	1130.0 24	934.0 20	780.0 13	724.0 5	590.0 3	500.0 3	417.0 6	309.0 15	192.0 17
1941	912.0 41	760.0 41	526.0 42	370.0 43	319.0 43	278.0 40	239.0 42	239.0 36	230.0 31	138.0 37
1942	1720.0 17	1480.0 13	1030.0 15	719.0 15	453.0 28	312.0 37	256.0 38	223.0 42	218.0 35	159.0 29
1943	1640.0 20	1230.0 21	876.0 22	660.0 21	436.0 31	409.0 21	364.0 18	370.0 15	320.0 12	217.0 12
1944	1300.0 28	1030.0 28	690.0 34	526.0 37	450.0 29	436.0 17	364.0 19	317.0 21	256.0 24	178.0 22
1945	2190.0 10	1780.0 8	1240.0 7	895.0 7	654.0 9	456.0 16	417.0 15	389.0 11	393.0 3	283.0 3
1946	1220.0 31	963.0 30	749.0 32	547.0 34	411.0 35	363.0 29	297.0 31	291.0 26	253.0 25	185.0 20
1947	1740.0 16	1420.0 16	907.0 21	596.0 28	555.0 15	480.0 14	465.0 7	407.0 7	324.0 11	191.0 19
1948	1800.0 15	1440.0 15	1180.0 9	851.0 9	641.0 10	527.0 5	464.0 8	404.0 10	315.0 13	207.0 14
1949	2910.0 5	1950.0 5	1390.0 5	1090.0 3	708.0 6	524.0 6	418.0 13	363.0 16	289.0 18	168.0 26
1950	1650.0 19	1100.0 26	759.0 30	582.0 29	561.0 14	403.0 23	353.0 21	329.0 18	275.0 19	168.0 27
1951	1960.0 11	1210.0 22	979.0 16	701.0 18	524.0 21	503.0 10	460.0 10	407.0 8	371.0 6	232.0 10
1952	2580.0 6	1810.0 6	1180.0 10	1020.0 4	822.0 2	647.0 2	601.0 1	508.0 2	481.0 1	362.0 1
1953	2530.0 7	1750.0 9	1150.0 12	755.0 14	523.0 22	464.0 15	470.0 5	428.0 3	386.0 5	222.0 11
1954	950.0 39	771.0 39	641.0 36	551.0 33	357.0 40	258.0 44	260.0 36	245.0 35	231.0 30	139.0 36
1955	5950.0 1	4030.0 1	2300.0 1	1290.0 2	733.0 4	410.0 20	280.0 35	218.0 37	226.0 32	190.0 19
1956	3100.0 4	2560.0 2	1740.0 2	1010.0 5	677.0 8	497.0 11	417.0 14	377.0 13	325.0 10	275.0 5
1957	1660.0 18	1450.0 14	1080.0 13	717.0 16	484.0 25	355.0 31	315.0 26	289.0 27	247.0 27	149.0 33
1958	1120.0 32	945.0 31	789.0 26	668.0 20	567.0 13	518.0 8	469.0 6	418.0 5	344.0 9	198.0 15
1959	877.0 42	519.0 46	411.0 46	366.0 44	308.0 44	275.0 41	250.0 40	229.0 39	211.0 39	144.0 35
1960	1940.0 12	1310.0 19	965.0 17	714.0 17	481.0 26	398.0 25	307.0 28	302.0 24	274.0 20	233.0 9
1961	1850.0 13	1540.0 11	1160.0 11	873.0 8	697.0 7	562.0 4	487.0 4	407.0 9	308.0 16	213.0 13
1962	1590.0 22	1260.0 20	875.0 23	638.0 22	495.0 24	391.0 27	303.0 29	287.0 28	225.0 33	133.0 38
1963	848.0 44	799.0 38	710.0 33	627.0 24	511.0 23	325.0 36	251.0 39	217.0 43	180.0 44	113.0 44
1964	994.0 36	738.0 42	532.0 41	424.0 40	376.0 38	329.0 35	281.0 34	284.0 29	216.0 36	177.0 41
1965	1100.0 33	763.0 40	506.0 43	320.0 46	225.0 46	179.0 46	162.0 46	139.0 46	110.0 46	67.4 46
1966	857.0 43	674.0 44	482.0 44	401.0 41	360.0 39	265.0 43	230.0 43	196.0 45	151.0 45	89.4 45
1967	942.0 40	836.0 34	785.0 28	610.0 25	537.0 17	389.0 28	346.0 23	318.0 19	257.0 22	173.0 24
MEAN	1687.761	1290.196	926.369	674.869	516.043	409.587	352.130	316.348	272.869	184.735
VARIANCE	857126.000	404616.875	139118.062	58162.176	26586.000	13161.066	9896.715	6963.406	5824.043	3579.114
STD DEV	925.811	636.095	372.985	241.168	163.052	114.722	99.482	83.447	76.315	59.826
SKENNESS	2.446	2.074	1.430	1.236	1.072	.557	.462	.337	.633	.792
SE OF SKEW	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR	.171	.213	.247	.119	-.037	.098	.212	.225	.249	.200
C OF VAR	.549	.493	.403	.357	.316	.280	.283	.264	.280	.324

LOGS

MEAN OF	3.180	3.069	2.936	2.804	2.692	2.595	2.530	2.485	2.419	2.244
VAR OF	.039	.034	.026	.022	.018	.015	.015	.014	.015	.020
STD DEV OF	.197	.186	.163	.148	.134	.124	.124	.118	.123	.142
SKEW OF	.592	.459	.249	.123	-.053	-.305	-.128	-.330	-.319	-.286
SE OF SKEW OF	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR OF	.216	.227	.252	.204	.066	.176	.248	.251	.305	.316
C OF VAR OF	.062	.060	.055	.053	.050	.048	.049	.048	.051	.063

DISCHARGE, IN-CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	642.305	502.306	387.292	297.653	237.280	189.941	169.598	152.089	127.044	76.690
1.05	779.263	616.893	479.576	368.432	295.039	240.256	209.491	190.700	160.678	100.003
1.11	876.356	695.897	540.429	413.863	331.027	270.729	233.906	213.846	181.002	114.484
1.25	1024.639	813.822	627.829	477.587	380.159	311.172	266.723	244.309	207.917	134.082
2.00	1446.093	1135.561	850.115	632.788	493.920	399.666	340.608	310.022	266.568	178.313
5.00	2174.276	1659.465	1176.625	846.695	639.270	502.873	431.239	385.183	334.535	231.965
10.00	2763.113	2062.519	1407.039	989.828	730.437	562.534	486.190	427.962	373.607	263.891
25.00	3642.565	2639.786	1714.415	1172.769	841.065	630.264	551.126	475.965	417.768	300.887
50.00	4405.422	3121.882	1955.273	1310.740	920.712	676.153	596.795	508.160	447.567	326.389
100.00	5268.840	3650.901	2206.381	1450.297	998.365	718.778	640.508	537.835	475.159	350.380

1-4435.00 PAULINS KILL AT BLAIRSTOWN, N. J.

STATISTICS OF MONTHLY MEANS, 1922-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1922-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR		MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	93.55	101.5	3.795	1.085	4.212	.366	1.837	.3159	.7867	.1720	7.223	.692	
NOV	154.7	127.4	1.227	.8235	6.965	.520	2.046	.3671	-.0055	.1794	8.043	.696	
DEC	180.6	115.5	.8979	.6394	8.132	.502	2.162	.3019	-.2348	.1396	8.503	.624	
JAN	203.3	117.7	1.318	.5789	9.153	.452	2.241	.2488	-.1178	.1111	8.810	.577	
FEB	235.5	97.54	.8667	.4142	10.60	.228	2.335	.1870	-.4412	.0801	9.180	.183	
MAR	373.0	146.1	1.483	.3916	16.79	-.060	2.542	.1620	.0235	.0637	9.995	-.083	
APR	321.8	150.4	.9187	.4673	14.49	.302	2.462	.2021	.0182	.0821	9.681	.301	
MAY	197.4	100.1	1.246	.5071	8.887	.486	2.244	.2162	-.0698	.0964	8.822	.490	
JUN	132.7	86.04	1.112	.6486	5.972	.538	2.041	.2665	.3117	.1306	8.024	.601	
JUL	110.4	122.6	2.180	1.110	4.971	.651	1.863	.3745	.6936	.2010	7.325	.758	
AUG	110.8	134.0	2.329	1.209	4.989	.329	1.827	.4102	.7628	.2245	7.186	.501	
SEP	107.4	127.6	2.496	1.189	4.835	.585	1.833	.3922	.6668	.2139	7.209	.806	

1-4450.00 PEQUEST RIVER AT HUNTSVILLE, N. J.

Location.--Lat 40°58'49", long 74°46'38", 20 ft upstream from highway bridge in Huntsville.

Drainage area.--31.4 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1940										11	13	14	66	26	22	21	14	20	17	11	23	12	10	9	10	14	14	14	9	13	2	1			15572.2	
1941				7	4	12	8	8	16	8	44	10	17	17	12	16	14	22	43	23	26	12	12	24	9	1									17068.1	
1942				1	2	18	11	17	14	4	16	18	24	17	14	37	49	21	20	19	13	17	20	8	5										10585.5	
1943				1	5	17	11	7	9	4	5	7	5	3	3	7	9	18	33	46	45	33	28	25	20	12	5	4	2	1					19708.2	
1944		6	7	3	7	4	13	4	13	8	11	18	9	23	22	12	19	20	19	27	17	16	16	25	20	15	6	4	2						13885.9	
1945						6	10	17	9	4	3	1	1				27	18	30	28	41	37	36	29	24	17	9	6	7	1	2		1	1	24260.0	
1946										1	2	13	14	11	10	15	27	33	26	40	35	29	25	35	23	15	6	4	1						17349.4	
1947					1	4	5	20	25	11	45	14	17	14	10	19	15	14	17	15	20	25	14	19	20	8	4	6	3						15280.1	
1948							1	27	9	10	7	6	14	13	35	32	21	20	22	13	22	18	17	33	24	8	5	5	3	1						17694.9
1949		7	3	6	11	9	9	25	19	28	29	21	18	10	7	7	4	10	16	25	16	17	22	24	7	3	3	3	1	3	1	1			13665.2	
1950						8	9	18	21	8	8	14	14	17	16	12	20	29	22	36	10	37	20	16	12	8	8	2							12949.1	
1951										3	6	11	14	8	21	21	10	21	21	15	29	20	19	19	36	30	32	11	6	10	1	1			20517.2	
1952											1	1	9	3	13	16	12	16	17	39	32	52	42	52	16	15	20	5	4	1					30423.1	
1953				9	10	6	6	13	14	10	8	5	14	19	15	10	7	5	7	9	12	23	30	34	39	26	18	7	7		1	1			19885.0	
1954			1	17	27	16	9	4	8	22	11	12	11	10	20	21	12	18	21	31	28	16	20	19	7	3	1								10130.5	
1955		5	2	10	13	4	4	2	6	6	9	22	22	7	14	6	15	22	20	39	30	30	33	22	13	2	1	1		1	1	1	1	1	14293.1	
1956																2	26	33	27	25	26	24	19	38	51	40	24	11	5	3	2	6	2	1	1	24440.0
1957		6	23	30	9	6	5	6	10	5	6	7	8	20	10	12	22	24	41	33	21	18	7	11	13	5	1	2	2						13092.3	
1958			6		9	8	18	18	14	10	14	24	11	13	10	13	24	19	19	10	7	9	15	23	20	21	16	11	3						17974.4	
1959											13	14	14	14	6	13	13	18	18	22	29	23	27	27	40	34	24	9	6						13464.8	
1960											6	3	10	17	22	14	23	13	23	28	35	37	31	35	18	19	12	6	9	2	2	1			20793.3	
1961										1	9	15	13	19	14	25	43	46	25	23	15	12	12	15	14	18	23	7	12	1	3				18687.8	
1962			1	6	19	17	29	23	26	20	18	17	8	22	25	25	6	12	16	11	12	10	13	15	7	5			2						9612.2	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	8401	100.0	9	6.30	240	7532	89.7	18	30.0	427	4552	54.2	27	140	109	304	3.6
1	1.60	11	8401	100.0	10	7.50	207	7292	86.8	19	35.0	611	4125	49.1	28	160	117	195	2.3
2	1.90	23	8390	99.9	11	8.90	375	7085	84.3	20	42.0	505	3514	41.8	29	200	35	78	.9
3	2.30	72	8367	99.6	12	11.00	280	6710	79.9	21	50.0	550	3009	35.8	30	230	27	43	.5
4	2.70	108	8295	98.7	13	13.00	303	6430	76.5	22	59.0	515	2459	29.3	31	280	9	16	.1
5	3.20	98	8187	97.5	14	15.00	333	6127	72.9	23	70.0	558	1944	23.1	32	330	3	7	.0
6	3.80	138	8089	96.3	15	18.00	312	5794	69.0	24	83.0	492	1386	16.5	33	390	2	4	.0
7	4.50	161	7951	94.6	16	21.00	443	5482	65.3	25	99.0	383	894	10.6	34	460	2	2	.0
8	5.30	258	7790	92.7	17	25.00	487	5039	60.0	26	120.0	207	511	6.1					

1-4450.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

PEQUEST RIVER AT HUNTSVILLE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	5.8 16	6.2 16	7.2 17	7.3 16	10.2 17	16.4 17	18.2 17	18.9 16	27.4 15	52.5 14
1941	2.8 7	2.8 7	3.2 7	4.0 8	4.5 8	5.8 8	7.1 7	7.9 6	9.0 3	23.7 1
1942	5.2 15	5.6 15	6.7 15	7.7 17	10.0 16	12.8 16	17.1 16	22.2 17	29.2 16	51.1 16
1943	3.1 8	3.3 8	3.5 8	3.8 7	4.4 7	5.0 7	6.6 5	10.5 9	19.9 11	37.6 8
1944	1.8 2	1.8 2	1.8 1	1.9 1	2.7 3	4.8 5	6.9 6	6.8 4	12.1 5	41.2 10
1945	14.9 22	18.6 22	21.3 22	25.4 22	30.0 22	42.4 22	50.8 22	55.4 22	58.1 22	72.1 21
1946	3.4 9	4.5 10	4.8 10	5.3 11	5.6 9	6.7 9	7.4 9	9.0 7	13.5 7	30.2 1
1947	4.7 12	5.2 12	5.4 12	6.2 13	9.0 14	10.2 13	11.6 13	16.6 15	21.2 17	52.8 15
1948	5.1 14	5.4 13	5.7 14	6.2 14	7.4 12	9.5 11	9.9 10	10.1 8	15.8 10	51.5 13
1949	2.0 3	2.0 1	2.1 3	2.4 3	3.1 6	4.6 4	4.8 3	5.1 2	6.3 2	25.7 7
1950	6.2 17	6.3 17	6.8 16	7.3 15	9.3 15	11.1 15	12.2 14	14.3 13	26.9 14	54.8 17
1951	10.8 19	11.6 19	13.6 20	15.3 20	16.7 20	19.0 18	24.0 18	25.0 18	29.5 17	61.1 20
1952	12.0 20	12.0 20	12.1 19	13.6 18	14.5 18	25.6 21	41.7 21	44.3 21	52.1 21	79.5 22
1953	2.4 6	2.5 5	2.5 5	2.6 5	2.8 4	3.7 2	4.6 2	5.6 3	9.1 4	35.1 5
1954	2.2 4	2.5 6	2.6 6	2.8 6	3.1 5	3.9 3	6.2 4	7.7 5	13.3 6	33.4 4
1955	1.6 1	1.6 1	1.8 2	2.2 2	2.6 1	5.0 6	7.2 8	13.3 12	31.7 18	50.9 12
1956	13.0 21	13.3 21	14.1 21	15.4 21	17.5 21	21.8 20	24.2 19	26.0 19	37.5 19	55.0 18
1957	2.2 5	2.2 4	2.3 4	2.5 4	2.7 2	2.9 1	3.1 1	3.5 1	5.3 1	37.2 6
1958	3.9 10	4.4 9	4.6 9	5.1 9	6.9 11	10.3 14	12.3 15	16.4 14	26.1 13	49.7 11
1959	4.6 11	4.6 11	4.9 11	5.3 10	7.8 13	9.8 12	10.1 12	11.3 10	14.7 8	37.5 7
1960	8.1 18	8.8 18	9.8 18	13.6 19	16.3 19	20.4 19	24.5 20	26.9 20	48.1 20	60.6 19
1961	4.8 13	5.4 14	5.6 13	6.1 12	6.4 10	7.9 10	9.9 11	12.1 11	14.7 9	39.4 9
MEAN	5.482	5.936	6.473	7.364	8.795	11.800	14.564	16.777	23.804	47.032
VARIANCE	15.097	19.288	24.479	34.337	45.439	88.910	148.192	164.225	220.328	205.085
STD DEV	3.885	4.392	4.948	5.860	6.741	9.429	12.173	12.815	14.843	14.321
SKENNESS	1.257	1.517	1.609	1.695	1.677	1.867	1.854	1.790	.918	.399
SE OF SKEW	.491	.491	.491	.491	.491	.491	.491	.491	.491	.491
SER CORR	-.171	-.176	-.177	-.180	-.228	-.227	-.183	-.243	-.335	-.284
C OF VAR	.709	.740	.764	.796	.766	.799	.836	.764	.624	.304

LOGS

MEAN OF	.645	.674	.706	.756	.837	.962	1.049	1.123	1.292	1.652
VAR OF	.083	.089	.094	.098	.097	.096	.098	.091	.083	.019
STD DEV OF	.289	.298	.306	.313	.312	.310	.313	.301	.287	.137
SKEW OF	.309	.257	.264	.323	.216	.346	.447	.186	-.230	-.295
SE OF SKEW OF	.491	.491	.491	.491	.491	.491	.491	.491	.491	.491
SER CORR OF	-.185	-.191	-.191	-.177	-.194	-.224	-.249	-.304	-.357	-.333
C OF VAR OF	.448	.442	.434	.414	.372	.322	.298	.268	.222	.083

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	1.095	1.090	1.131	1.266	1.451	2.096	2.664	2.913	3.760	20.167
20.00	1.573	1.609	1.683	1.867	2.208	3.056	3.779	4.411	6.328	26.086
10.00	1.931	2.001	2.104	2.328	2.788	3.791	4.637	5.545	8.267	29.735
5.00	2.504	2.631	2.786	3.080	3.730	4.988	6.044	7.371	11.322	34.645
2.00	4.267	4.583	4.925	5.482	6.691	8.800	10.606	12.997	20.091	45.623
1.25	7.633	8.323	9.096	10.307	12.447	16.457	20.076	23.628	34.394	58.773
1.11	10.551	11.563	12.760	14.664	17.476	23.378	28.917	32.694	44.919	66.525
1.04	15.132	16.636	18.563	21.731	25.381	34.625	43.724	46.665	59.097	75.445
1.02	19.265	21.196	23.830	28.289	32.505	45.088	57.895	59.032	70.159	81.558
1.01	24.076	26.486	29.988	36.100	40.778	57.575	75.218	73.190	81.563	87.283

1-4450.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

PEQUEST RIVER AT HUNTSVILLE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
	238.0 13	203.0 12	175.0 13	159.0 10	146.0 5	126.0 4	115.0 4	96.7 5	70.2 11	42.5 12
1940										
1941	120.0 22	114.0 21	100.0 20	98.5 20	84.9 20	65.5 21	57.7 20	60.1 18	54.3 18	33.1 20
1942	109.0 23	98.3 23	88.3 23	86.3 21	79.8 21	64.4 22	54.2 23	47.7 23	38.1 23	29.0 21
1943	257.0 9	220.0 11	177.0 12	130.0 15	98.5 17	94.7 14	86.7 12	88.0 10	76.0 8	54.0 7
1944	172.0 17	163.0 17	139.0 16	116.0 16	102.0 16	98.3 12	84.7 13	73.5 14	58.0 16	37.9 15
1945	462.0 2	381.0 2	302.0 1	216.0 1	158.0 2	109.0 7	99.3 9	93.3 8	95.7 2	66.5 3
1946	169.0 18	145.0 18	133.0 18	112.0 17	94.5 19	82.6 16	69.6 17	68.7 15	61.6 14	47.5 11
1947	214.0 14	188.0 15	169.0 15	142.0 13	123.0 9	108.0 8	101.0 8	91.0 9	72.0 10	41.9 13
1948	248.0 11	231.0 9	208.0 7	172.0 5	141.0 7	121.0 5	107.0 5	95.5 6	75.5 9	48.3 10
1949	335.0 4	288.0 4	224.0 5	196.0 3	145.0 3	117.0 6	97.2 10	85.0 11	66.3 13	37.4 16
1950	149.0 20	136.0 19	128.0 19	112.0 18	104.0 15	80.2 18	71.2 15	65.6 17	57.5 17	35.5 19
1951	254.0 10	192.0 14	173.0 14	141.0 14	115.0 11	108.0 9	104.0 6	94.8 7	88.1 4	56.2 5
1952	310.0 5	253.0 6	216.0 6	169.0 8	157.0 3	133.0 2	127.0 1	112.0 1	107.0 1	83.1 1
1953	298.0 6	244.0 7	197.0 9	149.0 12	115.0 12	107.0 10	104.0 7	100.0 4	93.0 3	54.5 6
1954	120.0 21	103.0 22	93.4 22	81.1 23	70.2 23	58.0 23	57.2 21	52.0 22	47.1 21	27.8 22
1955	481.0 1	386.0 1	275.0 3	171.0 6	110.0 14	66.8 20	55.1 22	55.4 21	49.5 20	39.2 14
1956	426.0 3	339.0 3	281.0 2	199.0 2	128.0 8	101.0 11	87.9 11	85.0 12	80.8 6	66.8 2
1957	245.0 12	230.0 10	201.0 8	153.0 11	113.0 13	82.4 17	70.7 16	66.0 16	60.4 15	35.9 18
1958	214.0 15	198.0 13	190.0 11	171.0 7	150.0 4	133.0 3	123.0 3	104.0 2	86.0 5	49.2 9
1959	166.0 19	129.0 20	96.9 21	84.4 22	72.4 22	70.2 19	62.0 19	56.8 20	53.8 19	36.9 17
1960	291.0 7	243.0 8	195.0 10	162.0 9	121.0 10	96.7 13	76.6 14	76.3 13	67.8 12	56.8 4
1961	278.0 8	267.0 5	227.0 4	194.0 4	166.0 1	137.0 1	124.0 2	104.0 3	76.6 7	51.2 8
1962	198.0 16	165.0 16	137.0 17	110.0 19	96.8 18	83.2 15	65.3 18	59.3 19	45.3 22	26.3 23
MEAN	250.174	213.752	179.374	144.535	117.004	97.522	86.974	79.596	68.722	45.978
VARIANCE	10635.937	6615.484	3601.900	1546.977	793.734	573.240	561.209	368.385	313.535	196.169
STD DEV	103.131	81.336	60.016	39.332	28.173	23.942	23.690	19.193	17.707	14.006
SKEWNESS	.824	.635	.283	-.032	.090	.014	.179	-.091	.330	.858
SE OF SKEW	.481	.481	.481	.481	.481	.481	.481	.481	.481	.481
SER CORR	-.067	-.075	-.050	-.135	-.141	-.047	-.078	-.094	.012	-.005
C OF VAR	.412	.381	.335	.272	.241	.246	.272	.241	.258	.305

LOGS

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN OF	2.363	2.299	2.229	2.143	2.056	1.976	1.923	1.888	1.823	1.644
VAR OF	.032	.028	.024	.016	.012	.012	.015	.012	.013	.017
STD DEV OF	.179	.169	.154	.126	.109	.111	.121	.110	.114	.129
SKEW OF	-.065	-.150	-.380	-.452	-.320	-.343	-.128	-.367	-.204	.163
SE OF SKEW OF	.481	.481	.481	.481	.481	.481	.481	.481	.481	.481
SER CORR OF	-.085	-.087	-.050	-.124	-.108	.004	-.040	-.080	-.024	-.040
C OF VAR OF	.076	.073	.069	.059	.053	.056	.063	.058	.063	.078

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	86.738	77.418	67.306	64.492	59.979	48.874	42.635	40.078	34.689	22.946
1.05	116.293	103.558	91.183	83.446	73.760	60.598	52.425	49.700	42.528	27.474
1.11	135.734	120.472	106.222	94.873	81.916	67.555	58.396	55.390	47.239	30.331
1.25	163.415	144.186	126.722	109.917	92.550	76.639	66.400	62.796	53.474	34.286
2.00	231.946	201.189	173.220	142.150	115.179	95.986	84.344	78.472	67.123	43.719
5.00	327.154	276.917	229.360	178.250	140.662	117.752	106.237	95.937	83.197	56.386
10.00	390.614	325.490	262.387	198.289	155.021	129.987	119.459	105.670	92.617	64.704
25.00	471.024	385.160	300.166	220.258	171.032	143.593	135.040	116.418	103.459	75.196
50.00	531.028	428.468	325.853	234.658	181.719	152.650	145.972	123.527	110.906	83.024
100.00	591.104	470.885	349.732	247.680	191.537	160.950	156.418	130.008	117.905	90.878

STATISTICS OF MONTHLY MEANS, 1940-1962

STATISTICS OF LOGS OF MONTHLY MEANS, 1940-1962

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	21.95	24.56	2.766	1.119	3.972	.535	1.167	.3772	.5660	.3231	6.471	.794
NOV	34.99	25.17	.8344	.7194	6.334	.621	1.417	.3612	-.2992	.2548	7.856	.737
DEC	45.49	27.23	.2882	.5987	8.233	.475	1.561	.3209	-.5837	.2055	8.654	.577
JAN	50.86	31.79	1.089	.6250	9.206	.599	1.627	.2721	-.0209	.1673	9.017	.701
FEB	54.47	23.68	.8576	.4347	9.859	.666	1.697	.1931	-.3335	.1138	9.404	.688
MAR	85.98	26.59	.8924	.3092	15.56	-.040	1.916	.1298	.1773	.0678	10.62	-.057
APR	86.49	34.10	.2958	.3942	15.65	.303	1.902	.1807	-.1928	.0950	10.54	.272
MAY	57.72	27.97	.4545	.4846	10.45	.560	1.706	.2362	-.5174	.1385	9.453	.499
JUN	37.07	25.33	1.077	.6833	6.709	.674	1.472	.3013	.0542	.2047	8.158	.759
JUL	28.38	33.29	2.314	1.173	5.136	.551	1.241	.4305	.2922	.3469	6.879	.839
AUG	25.48	26.61	1.456	1.045	4.611	.433	1.187	.4548	.1707	.3832	6.577	.518
SEP	23.63	28.39	2.244	1.201	4.277	.821	1.149	.4355	.4869	.3789	6.370	.845

1-4455.00 PEQUEST RIVER AT PEQUEST, N. J.

Location.--Lat 40°49'43", long 74°58'45", 100 ft upstream from Lehigh and Hudson River Railway Bridge.

Drainage area.--108 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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			
YEARS	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1922										2	6	16	30	23	22	29	27	36	29	20	18	15	12	24	17	16	14	8	1							53965.0		
1923										2	19	20	19	21	25	32	19	29	27	14	22	23	21	10	13	9	7	8	4	9	4	3	4	1			40631.0	
1924										8	18	27	22	21	18	9	9	15	20	21	21	25	28	23	13	19	15	12	5	10	2	5					44480.0	
1925										2	13	22	51	44	42	21	18	21	31	20	6	9	11	9	8	11	5	6	2	8	4	1					42052.0	
1926										3	5	13	18	9	17	22	34	26	23	20	36	18	10	29	29	13	8	10	5	10	2	4	1					44373.0
1927											1	16	17	17	15	33	52	47	26	26	34	19	22	16	14	8	2										54527.0	
1928															3	8	7	23	11	31	64	37	33	31	13	36	34	23	9	3						101628.0		
1929											2	17	13	23	26	38	52	34	30	18	12	9	14	16	14	10	13	10	8	6							48982.0	
1930											11	16	13	18	13	23	20	26	18	33	25	39	21	27	21	11	12	9	4	3	2						39971.0	
1931											1	20	13	11	17	18	41	7	26	34	34	20	39	27	15	9	9	7	3	5	2	2	2	1				37435.0
1932											2	21	15	23	11	58	25	17	22	25	16	46	16	24	14	8	4	3	7	1	1	7					27895.6	
1933											1	2	2		4	13	17	21	14	10	10	8	12	21	37	33	25	27	21	15	14	20	16	12	7	3		71488.4
1934															4	17	9	21	17	53	36	24	22	27	26	20	24	11	16	13	14	7	4				47882.0	
1935															12	24	17	27	36	50	28	35	18	29	21	14	20	13	8	7	1						50308.0	
1936																																						74922.0
1937																																						52507.0
1938																																						69918.0
1939																																						72313.0
1940																																						53186.0
1941																																						43537.0
1942																																						40053.0
1943																																						68709.0
1944																																						48143.5
1945																																						77138.0
1946																																						58977.0
1947																																						50676.0
1948																																						60179.0
1949																																						48352.0
1950																																						43839.0
1951																																						73004.0
1952																																						104331.0
1953																																						69040.0
1954																																						36583.0
1955																																						46516.0
1956																																						71927.0
1957																																						45594.0
1958																																						61309.0
1959																																						45540.0
1960																																						65554.0
1961																																						62260.0
1962																																						36409.0
1963																																						31206.0
1964																																						33205.0
1965																																						16726.0
1966																																						20961.0
1967																																						56434.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	C.CC	0	16801	100.0	9	39.00	813	14314	85.2	18	150.0	864	5891	35.1	27	570	130	245	1.4
1	12.CC	7	16801	100.0	10	46.00	837	13501	80.4	19	170.0	1041	5027	29.9	28	660	72	115	.6
2	14.00	44	16794	100.0	11	53.00	731	12664	75.4	20	200.0	772	3986	23.7	29	770	17	43	.2
3	16.00	244	16750	99.7	12	61.00	936	11933	71.0	21	230.0	825	3214	19.1	30	890	13	26	.1
4	19.00	184	16506	98.2	13	71.00	1038	10997	65.5	22	270.0	632	2389	14.2	31	1000	9	13	.0
5	22.00	311	16322	97.1	14	83.00	1040	9959	59.3	23	310.0	515	1757	10.5	32	1200	1	4	.0
6	25.00	453	16011	95.3	15	96.00	933	8919	53.1	24	360.0	457	1242	7.4	33	1400	1	3	.0
7	29.00	573	15558	92.6	16	110.00	1139	7986	47.5	25	420.0	319	785	4.7	34	1600	2	2	.0
8	34.CC	671	14985	89.2	17	130.00	956	6847	40.8	26	490.0	221	466	2.8					

1-4455.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

PECELET RIVER AT PEQUEST, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1922	36.0 34	41.3 36	43.6 34	46.0 34	47.2 32	50.9 31	59.6 30	77.8 32	93.4 30	146.0 27
1923	20.0 11	21.3 10	22.1 12	22.5 10	24.5 10	25.5 7	26.9 7	30.5 7	40.5 9	98.5 9
1924	20.0 12	21.3 11	24.7 16	25.1 16	25.5 13	30.3 16	38.8 18	41.5 17	47.0 13	135.0 20
1925	36.0 35	38.3 34	39.4 33	42.6 32	49.0 34	56.8 33	66.8 32	66.2 28	77.1 25	132.0 17
1926	20.0 13	21.3 12	21.9 9	24.2 14	29.5 18	33.1 18	41.0 20	47.2 20	57.6 20	123.0 14
1927	42.0 39	46.0 39	47.3 39	51.0 38	65.3 41	80.0 41	92.2 41	104.0 40	118.0 36	207.0 41
1928	49.0 40	52.0 41	53.4 41	60.6 42	66.3 42	72.4 36	75.2 36	82.5 34	127.0 39	201.0 40
1929	32.0 27	33.7 30	35.0 27	37.4 29	41.4 28	47.4 28	55.2 27	62.7 27	76.4 24	136.0 22
1930	21.0 14	21.7 13	21.9 10	22.0 9	23.6 9	26.9 9	29.1 9	30.8 8	37.7 7	74.5 3
1931	30.0 22	33.0 27	34.9 25	35.0 25	36.3 22	37.4 21	40.0 19	43.7 19	56.2 18	105.0 10
1932	18.4 8	18.7 8	19.0 8	19.3 8	20.8 7	22.5 6	26.3 6	34.9 10	51.2 16	135.0 21
1933	31.0 23	32.3 25	35.0 26	35.7 26	40.1 25	46.0 29	67.8 33	105.0 41	133.0 40	166.0 37
1934	31.0 24	31.7 23	32.9 23	34.7 24	39.5 24	46.5 26	58.0 28	68.1 29	82.9 26	144.0 26
1935	40.0 38	41.0 35	44.9 36	48.2 37	51.0 36	59.6 35	74.1 35	103.0 39	100.0 32	197.0 39
1936	26.0 19	27.0 19	27.6 19	28.1 19	30.6 19	33.3 19	34.0 13	36.0 13	51.0 15	141.0 23
1937	38.0 36	38.0 33	43.9 35	47.0 35	48.6 33	75.3 38	77.4 38	84.0 35	110.0 34	152.0 28
1938	67.0 44	68.7 44	71.4 44	78.4 44	88.7 43	103.0 43	145.0 44	199.0 45	213.0 45	244.0 44
1939	23.0 17	24.0 17	25.0 17	25.4 17	27.9 16	32.6 17	35.2 16	37.4 15	45.3 11	111.0 12
1940	40.0 37	42.0 37	45.9 37	47.6 36	55.1 37	74.2 37	77.2 37	79.4 33	106.0 33	178.0 36
1941	21.0 15	22.3 16	22.9 14	23.9 12	24.9 12	27.2 11	31.6 11	35.6 11	41.6 10	82.4 5
1942	31.0 25	33.7 28	38.7 32	45.4 33	50.3 35	57.1 34	69.8 34	86.2 36	126.0 38	190.0 38
1943	27.0 21	27.3 20	28.1 20	29.6 20	31.8 20	37.6 22	43.8 22	59.0 26	84.1 27	141.0 24
1944	16.4 6	17.5 6	17.9 6	18.4 6	21.6 8	27.9 13	35.0 15	35.7 12	49.1 14	132.0 18
1945	86.0 45	86.3 45	90.1 45	96.1 45	110.0 45	133.0 45	158.0 45	171.0 44	186.0 44	232.0 42
1946	26.0 20	29.3 21	30.6 21	32.1 21	33.6 21	37.0 20	41.1 21	43.1 18	56.4 19	108.0 11
1947	33.0 30	33.7 29	35.7 28	37.2 28	41.7 29	50.9 30	58.2 29	76.3 31	86.2 28	173.0 33
1948	32.0 28	33.0 26	35.7 29	36.0 27	39.0 23	40.6 23	44.6 23	48.5 21	63.3 21	176.0 35
1949	25.0 18	25.7 18	25.9 18	27.1 18	28.7 17	29.7 14	30.9 10	31.2 9	37.4 6	94.9 6
1950	35.0 32	35.0 31	36.1 30	38.5 30	42.1 31	45.9 25	49.5 24	55.0 24	92.3 29	173.0 34
1951	63.0 43	63.7 43	69.4 43	75.9 43	89.6 44	103.0 44	135.0 43	142.0 43	146.0 41	240.0 43
1952	55.0 42	55.7 42	56.4 42	57.9 41	61.9 39	87.6 42	131.0 42	135.0 42	164.0 43	261.0 45
1953	22.0 16	22.0 15	22.6 13	23.6 11	24.7 11	27.0 10	32.0 12	36.2 14	46.4 12	124.0 15
1954	20.0 9	21.7 14	23.7 15	25.1 15	26.4 15	29.7 15	35.7 17	38.0 16	52.4 17	112.0 13
1955	14.0 3	14.7 4	15.4 4	15.8 3	17.9 5	26.8 8	34.4 14	52.5 22	114.0 35	165.0 31
1956	51.0 41	51.3 40	53.0 40	57.0 40	63.1 40	78.8 40	86.0 40	88.7 37	119.0 37	183.0 29
1957	17.0 7	17.7 7	18.1 7	18.6 7	19.3 6	20.7 5	22.1 5	23.6 5	30.2 4	133.0 19
1958	32.0 29	32.3 24	33.0 24	34.1 23	40.3 26	53.4 32	60.3 31	71.9 30	97.3 31	165.0 30
1959	31.0 26	31.0 22	31.4 22	32.8 22	41.8 30	47.1 27	50.0 25	54.0 23	63.5 22	130.0 16
1960	34.0 31	44.3 38	47.0 38	54.9 39	60.6 38	76.3 39	85.3 39	91.6 38	147.0 42	185.0 37
1961	36.0 23	36.0 32	36.9 31	38.7 31	40.7 27	45.5 24	50.6 26	56.8 25	71.4 23	143.0 25
1962	20.0 10	20.7 9	22.0 11	24.1 13	25.8 14	27.5 12	28.0 8	29.7 6	39.6 8	95.1 7
1963	16.0 5	16.0 5	16.3 5	16.9 5	17.3 4	19.3 4	20.2 3	22.8 3	29.9 3	75.1 4
1964	14.0 4	14.0 2	14.0 2	14.4 2	16.5 2	17.1 2	17.9 2	19.9 2	25.2 2	71.2 2
1965	12.0 1	12.3 1	12.7 1	13.4 1	14.7 1	16.1 1	17.5 1	18.4 1	20.1 1	51.1 1
1966	14.0 2	14.3 3	15.1 3	16.1 4	17.3 3	18.4 3	20.4 4	23.4 4	33.4 5	96.5 8
MEAN	31.196	32.551	34.189	36.320	40.278	47.487	55.749	63.995	81.002	145.295
VARIANCE	230.822	239.908	267.727	325.446	435.993	686.544	1150.891	1591.221	2041.126	2343.314
STD DEV	15.193	15.489	16.362	18.040	20.880	26.202	33.925	39.890	45.179	48.408
SKEWNESS	1.545	1.365	1.304	1.285	1.366	1.257	1.469	1.520	.952	.409
SE OF SKEW	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR	.008	.017	.011	.008	.013	.036	.065	.013	.022	.195
C OF VAR	.487	.476	.479	.497	.518	.552	.609	.623	.558	.333

LOGS

MEAN OF	1.450	1.469	1.489	1.512	1.554	1.618	1.678	1.734	1.843	2.137
VAR OF	.038	.038	.039	.042	.044	.051	.059	.063	.061	.024
STD DEV OF	.194	.194	.198	.205	.211	.226	.243	.251	.246	.154
SKEW OF	.263	.159	.113	.146	.201	.202	.252	.195	-.077	-.511
SE OF SKEW OF	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR OF	.110	.131	.120	.111	.122	.148	.169	.140	.160	.292
C OF VAR OF	.134	.132	.133	.135	.136	.140	.145	.145	.134	.072

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	10.901	10.961	11.114	11.441	12.442	13.338	14.426	15.332	18.030	52.838
20.00	14.025	14.405	14.812	15.295	16.584	18.155	19.828	21.627	27.063	73.096
10.00	16.154	16.737	17.319	17.931	19.444	21.534	23.690	26.157	33.509	85.816
5.00	19.295	20.153	20.990	21.824	23.705	26.637	29.620	33.142	43.290	103.032
2.00	27.668	29.118	30.601	32.171	35.236	40.767	46.549	53.172	70.098	141.307
1.25	40.789	42.783	45.158	48.200	53.593	63.958	75.623	87.598	112.345	185.711
1.11	50.530	52.672	55.616	59.934	67.354	81.755	98.784	114.950	143.171	210.795
1.04	64.047	66.093	69.711	75.992	86.559	107.046	132.723	154.860	184.849	238.493
1.02	75.006	76.752	80.828	88.832	102.191	127.953	161.551	188.597	217.656	256.702
1.01	86.740	87.971	92.465	102.417	118.968	150.660	193.550	225.874	251.831	273.171

1-4455.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

PEQUEST RIVER AT PEQUEST, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1922	527.0 35	502.0 34	478.0 28	403.0 26	358.0 21	317.0 15	269.0 21	238.0 22	199.0 24	148.0
1923	690.0 21	647.0 20	606.0 18	526.0 10	408.0 13	301.0 22	246.0 25	216.0 27	177.0 32	111.0
1924	565.0 31	552.0 29	532.0 24	417.0 25	317.0 30	277.0 25	250.0 23	216.0 28	193.0 26	122.0
1925	690.0 22	660.0 18	611.0 17	558.0 7	456.0 8	337.0 14	264.0 22	227.0 24	174.0 33	115.0
1926	605.0 29	566.0 26	522.0 25	441.0 24	337.0 26	258.0 31	217.0 33	202.0 33	186.0 29	122.0
1927	451.0 41	426.0 40	379.0 39	312.0 39	291.0 35	251.0 32	218.0 32	196.0 34	186.0 30	149.0
1928	735.0 14	690.0 17	647.0 12	566.0 6	459.0 7	435.0 3	370.0 6	329.0 6	302.0 6	278.0
1929	550.0 34	523.0 33	499.0 27	455.0 22	350.0 25	307.0 21	285.0 16	250.0 18	202.0 22	134.0
1930	458.0 40	420.0 41	372.0 40	288.0 42	260.0 40	223.0 36	195.0 37	183.0 38	159.0 37	110.0
1931	705.0 18	639.0 21	548.0 23	357.0 34	249.0 41	208.0 41	178.0 41	175.0 39	156.0 40	103.0
1932	418.0 45	395.0 43	388.0 38	314.0 38	240.0 42	185.0 43	155.0 44	142.0 44	117.0 44	76.2
1933	730.0 15	705.0 13	628.0 15	502.0 14	479.0 5	382.0 8	329.0 12	286.0 13	254.0 9	196.0
1934	559.0 32	559.0 27	439.0 33	330.0 37	313.0 31	275.0 26	245.0 26	207.0 31	180.0 31	131.0
1935	705.0 19	655.0 19	577.0 20	385.0 30	268.0 37	233.0 35	196.0 36	188.0 36	166.0 35	138.0
1936	1740.0 1	1610.0 1	1310.0 1	1120.0 1	827.0 1	584.0 1	443.0 1	393.0 1	336.0 2	205.0
1937	516.0 36	472.0 36	421.0 35	365.0 32	295.0 34	259.0 30	244.0 27	233.0 23	211.0 20	144.0
1938	862.0 8	843.0 5	765.0 4	505.0 13	372.0 19	314.0 17	278.0 18	250.0 19	215.0 18	192.0
1939	760.0 12	740.0 10	697.0 7	537.0 9	403.0 14	388.0 7	378.0 5	334.0 5	311.0 4	198.0
1940	1660.0 3	832.0 6	671.0 10	467.0 20	421.0 10	376.0 10	354.0 7	305.0 11	229.0 14	145.0
1941	434.0 43	380.0 44	323.0 44	299.0 41	275.0 36	221.0 37	197.0 35	204.0 32	187.0 27	119.0
1942	614.0 27	556.0 28	452.0 31	379.0 31	261.0 39	202.0 42	164.0 43	146.0 43	142.0 42	110.0
1943	741.0 13	698.0 16	636.0 13	445.0 23	333.0 27	315.0 16	295.0 14	295.0 12	254.0 10	188.0
1944	629.0 26	527.0 30	429.0 34	389.0 28	329.0 28	310.0 19	273.0 20	242.0 21	196.0 25	132.0
1945	1130.0 2	1070.0 2	980.0 2	785.0 2	588.0 2	405.0 6	335.0 11	306.0 10	305.0 5	211.0
1946	557.0 33	474.0 35	398.0 37	360.0 33	302.0 33	262.0 28	227.0 30	226.0 25	209.0 21	162.0
1947	572.0 30	527.0 31	464.0 29	385.0 29	355.0 22	307.0 20	292.0 15	272.0 15	221.0 16	139.0
1948	662.0 23	576.0 25	515.0 26	464.0 21	411.0 12	374.0 11	346.0 9	311.0 8	246.0 12	164.0
1949	835.0 10	761.0 8	715.0 6	652.0 3	474.0 6	378.0 9	316.0 13	277.0 14	220.0 17	132.0
1950	448.0 42	433.0 39	404.0 36	341.0 36	303.0 32	243.0 33	221.0 31	211.0 29	186.0 28	120.0
1951	646.0 25	582.0 24	567.0 21	476.0 18	374.0 18	351.0 13	336.0 10	306.0 9	277.0 8	200.0
1952	718.0 16	652.0 11	622.0 11	622.0 4	569.0 3	472.0 2	427.0 2	389.0 2	369.0 1	285.0
1953	651.0 24	614.0 22	596.0 19	476.0 19	382.0 15	355.0 12	348.0 8	335.0 4	312.0 3	189.0
1954	499.0 37	440.0 38	334.0 42	255.0 44	213.0 44	181.0 44	187.0 39	171.0 41	158.0 38	100.0
1955	942.0 6	876.0 4	807.0 3	556.0 8	361.0 20	217.0 40	176.0 42	175.0 40	156.0 39	127.0
1956	705.0 17	700.0 15	672.0 9	515.0 11	375.0 17	298.0 23	276.0 19	255.0 16	231.0 13	197.0
1957	555.0 9	556.0 9	693.0 8	510.0 12	379.0 16	272.0 27	239.0 28	218.0 26	199.0 23	125.0
1958	764.0 11	710.0 12	622.0 16	499.0 15	443.0 9	413.0 5	391.0 3	339.0 3	279.0 7	168.0
1959	610.0 28	524.0 32	351.0 41	272.0 43	239.0 43	219.0 39	199.0 34	185.0 37	173.0 34	125.0
1960	1040.0 4	804.0 7	636.0 14	487.0 16	355.0 23	261.0 29	248.0 24	248.0 20	222.0 15	179.0
1961	1030.0 5	941.0 3	748.0 5	602.0 5	514.0 4	424.0 4	386.0 4	327.0 7	248.0 11	171.0
1962	696.0 20	590.0 23	452.0 30	356.0 35	325.0 29	290.0 24	228.0 29	207.0 30	162.0 36	99.8
1963	476.0 39	457.0 37	441.0 32	400.0 27	351.0 24	236.0 34	183.0 40	161.0 42	132.0 43	85.5
1964	433.0 44	376.0 45	324.0 43	306.0 40	263.0 38	221.0 38	193.0 38	191.0 35	149.0 41	90.7
1965	498.0 38	398.0 42	279.0 46	182.0 46	137.0 46	112.0 46	102.0 46	88.4 46	71.3 46	45.8
1966	391.0 46	356.0 46	292.0 45	236.0 45	205.0 45	157.0 45	140.0 45	124.0 45	92.9 45	57.4
1967	896.0 7	728.0 11	558.0 22	480.0 17	417.0 11	311.0 18	279.0 17	250.0 17	213.0 19	155.0
MEAN	691.261	630.239	552.826	447.326	361.739	298.196	263.435	239.770	207.896	145.530
VARIANCE	58326.863	47856.621	36022.242	24465.086	13560.523	8069.066	6244.488	4673.820	3893.749	2417.758
STD DEV	241.510	218.762	189.795	156.413	116.450	89.828	79.022	68.365	62.400	49.171
SKEWNESS	2.040	2.152	1.525	1.851	1.490	.693	.349	.254	.447	.689
SE OF SKEW	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR	-.063	-.069	-.076	-.079	-.084	.073	.158	.193	.266	.268
C OF VAR	.349	.347	.343	.350	.322	.301	.300	.285	.300	.338

LOGS

MEAN OF	2.819	2.779	2.720	2.628	2.538	2.455	2.401	2.361	2.297	2.138
VAR OF	.017	.017	.019	.020	.018	.018	.019	.017	.019	.024
STD DEV OF	.132	.132	.139	.140	.134	.134	.136	.132	.139	.155
SKEW OF	.692	.632	.225	.118	-.097	-.402	-.412	-.639	-.706	-.648
SE OF SKEW OF	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR OF	-.055	-.037	-.016	.020	.045	.194	.242	.257	.346	.379
C OF VAR OF	.047	.047	.051	.053	.053	.055	.057	.056	.060	.073

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	379.226	342.319	262.817	205.932	164.881	127.120	110.535	98.559	80.324	50.728
1.05	426.506	387.565	316.633	252.315	206.209	166.055	145.206	132.647	110.859	71.992
1.11	459.027	418.278	351.205	281.830	231.875	189.862	166.460	153.279	129.525	85.351
1.25	507.195	463.336	399.791	322.941	266.789	221.583	194.828	180.341	154.117	103.341
2.00	635.857	581.950	518.806	421.890	347.008	291.009	257.020	237.259	205.910	142.621
5.00	837.646	764.617	684.800	556.128	448.187	371.177	328.902	298.191	260.896	186.411
10.00	987.881	898.733	797.241	644.859	510.895	416.828	369.822	330.349	289.509	210.111
25.00	1197.432	1083.749	942.556	757.225	586.233	467.868	415.534	364.027	319.034	235.300
50.00	1368.482	1233.299	1053.329	841.305	639.981	501.916	445.998	385.139	337.259	251.260
100.00	1552.906	1393.276	1166.368	925.833	691.998	533.126	473.895	403.535	352.925	265.262

1-4455.00 PEQUEST RIVER AT PEQUEST, N. J.

STATISTICS OF MONTHLY MEANS, 1922-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1922-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	77.64	64.59	2.331	.8319	4.440	.557	1.782	.2994	.4123	.1680	7.267	.802
NOV	118.5	90.49	1.465	.7638	6.774	.653	1.957	.3263	.0425	.1667	7.982	.753
DEC	138.9	86.61	1.009	.6234	7.945	.662	2.060	.2775	-.0902	.1347	8.401	.717
JAN	154.7	87.00	1.212	.5622	8.848	.561	2.123	.2558	-.3326	.1186	8.658	.694
FEB	184.4	79.97	.7793	.4336	10.55	.434	2.226	.1904	-.1378	.0855	9.080	.409
MAR	274.6	106.9	1.961	.3895	15.70	.049	2.411	.1564	.0168	.0649	9.833	.115
APR	245.5	104.4	.6163	.4251	14.04	.465	2.351	.1898	-.1581	.0808	9.588	.488
MAY	165.5	72.90	.7073	.4405	9.464	.617	2.176	.1981	-.2259	.0910	8.877	.645
JUN	107.7	57.12	.9886	.5304	6.159	.692	1.976	.2235	.1529	.1131	8.058	.747
JUL	100.5	97.77	2.249	.9731	5.745	.590	1.860	.3364	.5838	.1809	7.587	.779
AUG	93.03	90.50	1.820	.9728	5.319	.557	1.809	.3636	.4829	.2010	7.379	.625
SEP	87.82	83.90	1.788	.9553	5.022	.651	1.787	.3622	.4374	.2027	7.290	.835

1-4460.00 BEAVER BROOK NEAR BELVIDERE, N. J.

Location.--Lat 40°50'40", long 75°02'48", 2 miles east of Belvidere.

Drainage area.--36.2 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1923																																			12673.6
1924																																			17673.4
1925																																			15067.4
1926																																			13929.2
1927																																			20433.0
1928																																			38873.0
1929																																			15848.8
1930																																			13131.7
1931																																			13186.1
1932																																			8725.5
1933																																			25454.6
1934																																			14103.6
1935																																			14894.5
1936																																			25569.1
1937																																			19046.6
1938																																			22175.8
1939																																			23045.5
1940																																			17312.7
1941																																			19391.9
1942																																			20845.0
1943																																			24635.2
1944																																			16017.1
1945																																			28200.9
1946																																			19709.0
1947																																			19336.7
1948																																			20630.1
1949																																			15863.6
1950																																			16527.1
1951																																			24319.7
1952																																			33134.1
1953																																			21664.2
1954																																			12711.3
1955																																			14679.1
1956																																			22673.0
1957																																			

1-4460.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

BEAVER BROOK NEAR BELVIDERE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1923	3.1 9	3.3 10	3.5 11	3.8 9	4.2 9	4.7 10	4.9 6	5.9 8	10.0 6	37.1 7
1924	3.4 15	3.5 11	3.6 12	4.0 12	4.2 10	5.3 12	7.4 15	12.2 17	15.0 15	50.0 21
1925	7.4 28	8.5 29	9.3 29	10.5 30	11.3 29	14.6 28	20.3 31	22.8 29	25.0 21	43.0 12
1926	3.6 18	3.8 18	3.9 15	4.4 17	5.5 19	6.6 16	8.6 16	10.6 15	14.7 14	43.5 13
1927	11.0 34	12.0 34	13.0 34	14.7 34	21.0 35	28.2 35	37.3 36	38.4 34	42.0 34	71.6 32
1928	10.0 32	10.0 31	11.1 32	13.8 33	15.9 32	17.2 30	17.8 28	22.6 28	39.9 33	79.9 35
1929	5.0 23	5.3 23	5.9 24	6.8 24	8.8 24	9.7 22	10.7 19	13.2 19	19.8 19	45.6 15
1930	2.0 5	2.0 5	2.3 6	2.6 7	2.9 7	3.5 6	3.9 3	4.3 2	6.9 2	23.5 1
1931	3.3 11	3.7 15	4.0 17	4.5 18	5.1 16	5.5 13	6.7 13	8.4 13	15.2 16	36.0 4
1932	1.6 4	1.6 4	1.8 4	1.8 4	2.2 4	2.5 2	3.1 2	5.4 4	12.3 11	49.1 20
1933	3.3 12	3.6 13	3.9 16	4.0 13	5.0 15	7.1 17	13.9 24	25.4 30	39.8 32	51.7 22
1934	3.4 13	3.7 16	3.8 13	4.2 15	5.3 18	7.3 18	10.8 20	13.6 20	18.7 18	41.5 10
1935	4.9 22	5.5 24	6.4 25	7.6 25	8.6 23	10.6 25	18.4 29	32.6 32	31.4 27	68.5 31
1936	3.5 16	3.8 17	4.1 18	4.3 16	4.8 13	5.9 14	6.6 12	7.6 11	13.7 12	46.6 16
1937	10.8 33	11.2 33	12.2 33	13.3 32	16.0 33	24.1 33	32.8 34	32.8 33	39.0 31	52.4 25
1938	12.3 37	13.1 37	15.0 36	17.0 36	19.3 34	25.8 34	42.4 37	56.9 37	63.7 37	79.0 34
1939	3.1 10	3.2 9	3.4 9	3.8 10	5.0 14	6.4 15	6.8 14	7.1 10	11.4 9	36.0 5
1940	7.4 29	7.7 28	8.9 28	9.2 28	11.2 28	16.7 29	16.9 27	19.2 25	30.8 26	57.4 27
1941	2.3 7	2.3 7	2.3 5	2.4 5	2.6 5	3.1 4	4.0 4	5.6 5	7.7 3	26.2 2
1942	12.0 35	12.5 36	16.3 37	20.4 37	23.5 37	30.6 37	32.8 35	41.5 35	80.3 38	87.0 38
1943	4.0 19	4.2 20	4.4 20	4.9 20	5.2 17	7.4 19	9.3 18	14.7 23	26.5 22	48.3 14
1944	1.2 1	1.2 1	1.3 1	1.3 1	1.9 1	3.0 3	5.7 9	5.7 6	9.4 5	44.9 14
1945	21.0 38	22.3 38	23.6 38	25.8 38	31.1 38	42.9 38	52.4 38	57.2 38	62.8 36	82.5 36
1946	5.9 27	6.2 27	6.7 27	7.9 26	10.7 27	12.9 27	14.2 25	13.7 21	16.1 17	39.6 8
1947	4.3 21	4.6 21	4.9 21	5.1 21	5.6 20	8.8 21	11.0 21	18.0 24	24.7 20	64.4 30
1948	3.5 17	3.6 14	3.8 14	4.1 14	4.5 12	4.7 11	6.1 10	8.0 12	11.5 10	56.7 26
1949	3.4 14	3.5 12	3.5 10	3.8 11	4.2 11	4.5 9	5.3 7	5.3 3	8.3 4	35.6 3
1950	5.6 25	5.6 25	5.7 22	6.3 22	6.7 22	7.6 20	8.8 17	10.5 14	27.5 24	58.4 28
1951	12.2 36	12.2 35	13.3 35	15.2 35	22.4 36	29.7 36	31.5 33	49.4 36	45.0 35	82.6 37
1952	9.1 30	9.4 30	9.6 30	9.9 29	11.9 30	17.8 31	28.8 32	27.7 31	34.9 29	78.9 31
1953	2.4 8	2.4 8	2.5 7	2.6 6	2.7 6	3.4 5	4.8 5	6.5 9	10.4 7	42.3 11
1954	2.1 6	2.2 6	2.5 8	2.7 8	3.1 8	4.0 7	5.3 8	5.9 7	11.0 8	36.6 6
1955	1.2 2	1.2 2	1.3 2	1.4 2	2.0 3	4.1 8	6.4 11	12.8 18	27.6 25	48.7 19
1956	10.0 31	10.7 32	11.1 31	12.2 31	13.9 31	18.5 32	19.7 30	21.4 26	34.3 28	52.1 24
1957	1.4 3	1.6 3	1.7 3	1.8 3	1.9 2	2.1 1	2.3 1	2.7 1	4.8 1	47.2 17
1958	4.1 20	4.1 19	4.1 19	4.5 19	6.4 21	9.8 23	11.1 22	14.0 22	27.3 23	51.8 23
1959	5.3 24	5.3 22	5.7 23	6.7 23	9.4 25	10.0 24	11.4 23	11.9 16	14.2 13	40.0 9
1960	5.8 26	6.0 26	6.4 26	8.5 27	10.4 26	12.2 26	16.7 26	21.7 27	38.6 30	58.8 29
MEAN	5.682	5.963	6.495	7.311	8.853	11.547	14.655	18.242	25.584	52.505
VARIANCE	17.747	19.733	24.439	32.276	49.697	92.430	147.411	211.936	302.016	265.125
STD DEV	4.213	4.442	4.944	5.681	7.050	9.614	12.141	14.558	17.379	16.283
SKEWNESS	1.631	1.659	1.557	1.472	1.426	1.515	1.477	1.375	1.291	.614
SE OF SKEW	.383	.383	.383	.383	.383	.383	.383	.383	.383	.383
SER CORR	-.049	-.068	-.084	-.074	-.034	-.050	-.021	-.095	-.175	-.094
C OF VAR	.741	.745	.761	.777	.796	.833	.828	.798	.679	.310

LOGS

MEAN OF	.651	.670	.703	.747	.824	.932	1.036	1.136	1.313	1.700
VAR OF	.093	.095	.098	.107	.110	.115	.115	.114	.088	.018
STD DEV OF	.306	.308	.314	.327	.332	.339	.339	.337	.296	.135
SKEW OF	.070	.039	.106	.055	.154	.238	.202	.098	-.042	-.108
SE OF SKEW OF	.383	.383	.383	.383	.383	.383	.383	.383	.383	.383
SER CORR OF	-.057	-.078	-.097	-.083	-.043	-.057	-.046	-.108	-.219	-.102
C OF VAR OF	.470	.460	.446	.438	.403	.364	.327	.297	.225	.079

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	.903	.916	.995	1.000	1.229	1.595	1.990	2.377	4.130	23.739
20.00	1.427	1.467	1.573	1.638	1.963	2.501	3.157	3.899	6.657	29.788
10.00	1.826	1.890	2.017	2.138	2.538	3.214	4.076	5.100	8.570	33.546
5.00	2.469	2.572	2.738	2.957	3.487	4.401	5.604	7.090	11.617	38.659
2.00	4.437	4.660	4.981	5.541	6.541	8.294	10.594	13.500	20.678	50.404
1.25	8.068	8.498	9.227	10.485	12.614	16.328	20.787	26.169	36.556	65.200
1.11	11.080	11.665	12.828	14.692	17.983	23.684	30.018	37.255	49.106	74.356
1.04	15.595	16.384	18.330	21.116	26.474	35.696	44.935	54.594	67.134	85.341
1.02	19.487	20.427	23.155	26.735	34.151	46.883	58.689	70.092	82.072	93.166
1.01	23.843	24.929	28.629	33.094	43.078	60.221	74.946	87.936	98.256	100.731

1-4460.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BEAVER BROOK NEAR BELVIDERE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1923	636.0 7	485.0 6	340.0 8	249.0 8	172.0 11	117.0 16	91.7 25	77.3 27	61.2 31	34.7 36
1924	481.0 20	368.0 20	269.0 20	182.0 21	131.0 22	110.0 22	100.0 18	88.0 20	83.3 14	48.3 21
1925	280.0 29	263.0 29	246.0 22	228.0 10	177.0 9	128.0 14	98.3 20	81.4 25	61.8 30	41.3 28
1926	540.0 12	325.0 22	207.0 28	140.0 29	104.0 31	78.8 34	69.3 34	67.9 32	60.9 32	38.2 34
1927	269.0 31	238.0 30	175.0 32	131.0 35	102.0 32	90.9 30	79.7 29	74.6 29	71.3 26	56.0 14
1928	652.0 5	523.0 4	386.0 4	303.0 4	213.0 5	208.0 2	163.0 1	136.0 3	115.0 4	106.0 1
1929	368.0 25	298.0 25	218.0 26	185.0 20	135.0 20	115.0 20	105.0 17	92.5 17	72.1 25	43.4 26
1930	207.0 37	180.0 36	156.0 36	117.0 37	101.0 34	81.6 31	70.3 31	67.5 33	58.4 35	36.0 36
1931	636.0 6	462.0 9	296.0 14	177.0 24	113.0 30	81.3 32	63.8 37	63.8 36	57.6 37	36.1 35
1932	189.0 38	171.0 37	156.0 37	121.0 36	89.8 38	67.0 39	56.6 39	53.2 39	42.1 39	23.8 39
1933	529.0 14	417.0 14	303.0 11	212.0 13	179.0 8	138.0 13	115.0 15	98.7 14	94.6 9	64.7 5
1934	330.0 27	283.0 26	178.0 31	132.0 34	120.0 27	98.7 27	82.8 28	73.3 30	59.7 34	38.6 32
1935	628.0 8	429.0 12	277.0 18	163.0 25	101.0 35	70.1 37	59.7 38	55.0 38	48.3 38	40.8 30
1936	1370.0 1	980.0 1	609.0 1	457.0 1	321.0 1	213.0 1	156.0 2	140.0 2	121.0 2	69.9 4
1937	237.0 34	207.0 34	168.0 33	142.0 32	114.0 28	96.9 28	87.9 27	81.6 24	74.3 21	52.2 20
1938	511.0 18	400.0 17	277.0 19	180.0 22	127.0 24	99.3 25	90.1 26	77.0 28	67.4 27	60.8 10
1939	600.0 10	467.0 8	337.0 9	226.0 11	155.0 15	145.0 11	136.0 6	119.0 6	107.0 5	63.1 8
1940	762.0 3	456.0 10	286.0 16	194.0 16	163.0 12	149.0 8	121.0 10	103.0 13	76.2 19	47.3 22
1941	168.0 39	150.0 39	130.0 38	106.0 38	93.0 37	81.0 33	69.7 32	71.8 31	65.7 28	38.2 33
1942	810.0 2	731.0 2	544.0 2	381.0 2	250.0 2	157.0 6	119.0 12	98.4 16	84.4 13	57.2 12
1943	526.0 16	407.0 15	297.0 13	189.0 18	126.0 25	116.0 17	105.0 16	105.0 12	93.7 10	67.5 6
1944	280.0 30	230.0 31	163.0 35	136.0 33	120.0 26	113.0 21	99.0 19	87.4 21	72.3 24	43.8 24
1945	715.0 4	645.0 3	505.0 3	338.0 3	239.0 3	159.0 5	128.0 9	113.0 7	117.0 3	77.3 3
1946	254.0 32	219.0 32	168.0 34	144.0 31	114.0 29	94.7 29	79.6 30	78.6 26	73.2 22	54.0 17
1947	347.0 26	276.0 27	209.0 27	156.0 26	143.0 17	125.0 15	120.0 11	108.0 11	89.9 12	53.0 19
1948	291.0 28	270.0 28	234.0 25	195.0 15	176.0 10	160.0 4	139.0 4	122.0 4	90.0 11	58.4 13
1949	609.0 9	452.0 11	346.0 7	282.0 5	194.0 7	146.0 9	116.0 14	98.5 15	77.3 16	43.5 25
1950	242.0 33	208.0 33	182.0 29	153.0 27	139.0 19	116.0 18	94.2 22	89.7 19	75.7 20	45.3 23
1951	414.0 22	355.0 21	284.0 17	205.0 14	148.0 16	140.0 12	130.0 8	113.0 8	95.5 8	66.6 7
1952	481.0 19	384.0 19	292.0 15	255.0 7	221.0 4	174.0 3	144.0 3	141.0 1	136.0 1	90.5 2
1953	388.0 23	312.0 24	235.0 24	178.0 23	134.0 21	116.0 19	118.0 13	112.0 10	105.0 6	59.4 11
1954	231.0 35	200.0 35	179.0 30	153.0 28	102.0 33	68.6 38	66.9 35	67.3 34	60.7 33	34.8 37
1955	522.0 17	398.0 18	246.0 20	146.0 30	95.6 36	77.4 35	66.9 36	65.4 35	57.9 36	40.2 31
1956	533.0 13	405.0 16	303.0 12	190.0 17	128.0 23	98.7 26	95.6 21	85.2 23	77.1 17	61.9 9
1957	528.0 15	484.0 7	365.0 6	239.0 9	159.0 14	109.0 23	92.2 23	85.6 22	72.5 23	41.7 27
1958	371.0 24	315.0 23	267.0 21	187.0 19	161.0 13	145.0 10	133.0 7	119.0 5	96.3 7	53.7 18
1959	224.0 36	170.0 38	111.0 39	95.4 39	79.0 39	71.3 36	69.6 33	62.9 37	62.0 29	41.1 29
1960	463.0 21	420.0 13	314.0 10	214.0 12	141.0 18	101.0 24	91.7 24	91.1 18	76.4 18	54.6 15
1961	598.0 11	515.0 5	367.0 5	256.0 4	202.0 6	156.0 7	136.0 5	113.0 9	82.4 15	54.4 16
MEAN	467.179	372.256	272.436	198.600	148.267	118.264	101.528	91.736	79.313	52.341
VARIANCE	52085.184	27944.156	11824.176	5675.312	2596.488	1340.656	794.553	537.918	439.490	260.919
STD DEV	228.222	167.165	108.739	75.335	50.956	36.615	28.188	23.193	20.964	16.153
SKEWNESS	1.601	1.459	1.229	1.534	1.342	.723	.301	.421	.772	1.218
SE OF SKEW	.378	.378	.378	.378	.378	.378	.378	.378	.378	.378
SER CORR	-.242	-.267	-.296	-.280	-.258	-.097	.001	.051	.030	.042
C OF VAR	.489	.449	.399	.379	.344	.310	.278	.233	.264	.309

LOGS

MEAN OF	2.623	2.532	2.404	2.272	2.149	2.053	1.990	1.949	1.885	1.700
VAR OF	.042	.034	.027	.022	.019	.017	.015	.012	.013	.016
STD DEV OF	.204	.185	.165	.149	.137	.132	.123	.110	.112	.127
SKEW OF	-.013	.077	.108	.482	.495	.090	-.144	-.044	.123	.191
SE OF SKEW OF	.378	.378	.378	.378	.378	.378	.378	.378	.378	.378
SER CORR OF	-.374	-.349	-.344	-.295	-.230	-.038	.044	.077	.047	.071
C OF VAR OF	.078	.073	.069	.065	.064	.064	.062	.057	.059	.075

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	140.238	129.444	107.857	95.362	76.056	56.793	48.997	48.863	43.131	26.461
1.05	193.669	170.531	137.252	112.056	88.074	60.039	60.567	58.385	50.694	31.507
1.11	229.943	197.929	156.465	123.242	96.065	76.743	67.633	64.152	55.361	34.697
1.25	282.971	237.518	183.800	139.526	107.616	87.368	77.110	71.855	61.704	39.119
2.00	420.392	338.648	251.945	181.975	137.341	112.513	98.360	89.084	76.361	49.697
5.00	623.622	486.597	348.705	246.737	181.839	145.827	124.264	110.156	95.204	63.970
10.00	765.930	589.955	414.893	293.995	213.807	167.433	139.884	122.958	107.160	73.386
25.00	953.218	726.200	500.861	358.879	257.156	194.393	158.261	138.146	121.848	85.306
50.00	1097.638	831.609	566.574	411.096	291.660	214.307	171.134	148.877	132.558	94.231
100.00	1245.940	940.268	633.720	466.748	328.117	234.128	183.417	159.196	143.115	103.211

1-4460.00 BEAVER BROOK NEAR BELVIDERE, N. J.

STATISTICS OF MONTHLY MEANS, 1923-1961							STATISTICS OF LOGS OF MONTHLY MEANS, 1923-1961					
MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR		MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	24.25	25.29	2.172	1.043	3.853	.430	1.194	.4176	.0587	.3496	6.451	.739
NOV	43.59	38.03	1.288	.8723	6.926	.549	1.472	.4033	-.0858	.2740	7.950	.678
DEC	53.57	34.51	.8490	.6442	8.511	.500	1.631	.3099	-.2793	.1900	8.811	.571
JAN	60.32	33.91	1.389	.5621	9.583	.378	1.719	.2370	-.0571	.1379	9.282	.510
FEB	71.60	30.80	.7527	.4302	11.37	.158	1.814	.1969	-.4369	.1086	9.798	.116
MAR	103.4	45.62	1.812	.4412	16.43	-.098	1.980	.1702	.4444	.0860	10.70	-.093
APR	90.30	41.33	.7418	.4576	14.35	.326	1.912	.1979	.1175	.1035	10.33	.338
MAY	52.74	26.85	1.159	.5091	8.379	.391	1.668	.2234	-.2131	.1339	9.011	.444
JUN	33.86	21.53	.7694	.6359	5.379	.507	1.442	.2830	.0642	.1962	7.790	.609
JUL	36.59	48.84	2.418	1.335	5.812	.503	1.300	.4608	.5727	.3544	7.022	.667
AUG	32.35	49.38	3.019	1.527	5.139	.531	1.203	.4981	.5003	.4140	6.498	.617
SEP	26.88	31.90	1.984	1.187	4.270	.522	1.178	.4754	.2150	.4035	6.363	.794

1-4465.00 DELAWARE RIVER AT BELVIDERE, N. J.

Location.--Lat 40°49'36", long 75°05'02", 800 ft downstream from Pequest River.

Drainage area.--4,535 sq mi.

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 DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS	
1923					13	24	41	61	19	15	9	21	24	15	17	16	15	8	9	17	10	7	5	5	2	4	3	1	1	3					2221820.0		
1924					14	31	24	14	14	26	29	20	20	15	25	21	15	17	21	11	17	9	9	3	7			1	1			1	1		2790190.0		
1925						12	17	22	42	32	28	27	17	22	19	33	21	14	20	13	11	4	3	2	1	1				2					2478060.0		
1926					1	6	17	12	29	28	17	31	41	21	20	24	26	22	18	14	18	6	4	7		3									2596230.0		
1927							3	12	8	8	31	39	34	31	41	33	37	25	14	13	8	9	5	5	5	5	1	1	1	1					3441040.0		
1928												5	14	15	18	51	38	34	35	29	44	28	17	9	10	8	2	3	2					1	5170920.0		
1929					2	4	26	27	50	27	41	36	22	12	9	9	8	19	17	7	21	6	10	4	2	3	1	1	2	1					2627440.0		
1930					1	2	18	24	14	16	16	11	33	41	37	19	31	28	22	14	7	10	15	2	3	1									2367350.0		
1931					18	25	41	39	31	24	21	9	20	18	19	19	11	13	18	7	11	8	8	1	3		1								2077730.0		
1932					8	21	30	26	24	25	16	8	23	29	27	24	24	14	19	13	5	13	7	5	1	1	2		1						2137707.0		
1933					1	6	7	13	23	13	5	10	16	23	28	41	50	19	16	16	16	20	9	10	8	5	5	2	1					1	3433410.0		
1934						1	5	26	20	22	19	32	31	52	35	36	19	16	13	7	11	13	4	1	1										2412200.0		
1935							6	7	16	12	26	28	32	46	27	26	30	34	29	8	13	11	4	3	2	1	3	1								2947340.0	
1936					2	13	15	19	27	29	9	16	33	21	22	17	32	22	15	14	8	9	8	10	7	4	4	1	1	3				2	2	1	3484968.0
1937						1	9	6	16	16	20	27	27	39	26	27	31	33	21	15	22	10	8	4	4	4	2		1							3101990.0	
1938									3	7	11	6	21	38	36	41	35	30	39	37	15	18	12	3	2	3	1	4	1					2		3490840.0	
1939					4	4	11	13	33	24	10	15	7	12	23	24	36	31	19	16	11	8	23	12	13	6	5	2	1				1			2982554.0	
1940						1	1	10	8	32	46	54	32	27	21	13	21	17	11	11	14	20	6	6	4	2	2	7	5	1	1	3			1	3087430.0	
1941					4	6	5	9	9	16	23	27	33	20	25	44	33	28	22	16	9	9	8	8	3	3	2	1	2							2313815.0	
1942					1	13	11	4	9	17	13	10	17	48	39	33	26	28	16	13	21	14	11	7	3	4	1	1		4				1	2651171.0		
1943					1	1	5	11	10	6	13	18	9	8	10	9	8	26	34	40	32	28	25	17	16	12	7	8	7	1	1			1	1	3869253.0	
1944					2		12	22	21	12	22	26	25	28	27	17	26	29	14	16	9	14	10	14	7	3	5	3	1							2206498.0	
1945							1	9	20	13	3	3	18	34	28	27	25	31	29	29	18	27	16	11	3	7	2	8	1	2						3917810.0	
1946					2	1	2	7	15	15	14	21	33	31	51	25	26	31	26	16	18	10	10		5	3	1	1	1							3254000.0	
1947							2	1	6	34	44	39	33	28	21	14	14	21	27	23	19	11	8	5	10	1	2		1				1	1		3327290.0	
1948						2	7	7	4	23	24	14	30	31	24	26	31	23	23	21	20	7	15	9	11	1	3	2	3				2	2		3108732.0	
1949					1	6	9	18	25	19	22	33	16	9	17	12	16	17	24	29	27	17	14	18	4	3	1	2	2				2	1		2574134.0	
1950						3	4	5	12	11	22	19	18	29	16	29	23	36	30	38	21	14	12	8	2	3	2	4		1	3					2960604.0	
1951						4	13	13	23	21	15	32	28	37	18	17	12	15	26	22	25	14	6	5	9	2	2	1	1	2	2					3625040.0	
1952							5	5	13	22	12	29	16	25	21	20	18	24	29	30	28	25	12	10	9	4	5	3	1							4298910.0	
1953					1	4	9	17	15	35	25	21	18	8	2	9	12	14	13	28	26	20	25	25	10	7	5	4						1		3472489.0	
1954					4	18	22	21	20	23	3	13	13	24	26	13	15	22	16	23	24	16	10	15	13	5	3	3								2315135.0	
1955						2	11	15	33	13	10	11	23	25	31	30	21	17	22	26	27	15	16	7	4	3								1	1	2778930.0	
1956							2	18	20	19	31	28	26	26	27	34	30	22	13	20	16	12	6	10	2	2								2		3655400.0	
1957						10	30	29	23	23	26	43	25	19	30	30	19	11	16	7	9	9	1	1	1	2	1									2146530.0	
1958					1	7	7	33	41	28	29	29	19	29	13	13	8	11	25	11	21	12	8	10	5	1	1	1	1	2						2965440.0	
1959						5	23	40	54	22	29	25	22	21	25	19	25	20	8	14	7	2	1													2289710.0	
1960							4	10	17	26	29	37	48	44	41	25	21	18	14	9	2	5	5	3	5									1	2	3546370.0	
1961						2	6	34	65	44	42	32	19	12	12	9	18	11	15	11	14	4	9	1	2											2607640.0	
1962						8	45	68	41	20	28	28	15	20	14	18	10	5	8	16	6	3	3	2												1884390.0	
1963						5	25	35	35	28	43	46	28	34	32	14	8	8	4	4	2	3	5	1	1	1	1	1	1							1968750.0	
1964					3	2	8	19	42	43	32	21	17	29	18	23	12	15	19	19	16	9	7	4	2	1	3	1								1969395.0	
1965					11	7	62	57	47	22	24	19	8	13	27	17	11	13	11	10	2		2	1	1											1091259.0	
1966					11	27	50	38	40	30	20	21	29	15	11	24	11	12	15	5	3	3														1504140.0	
1967						3	13	27	32	45	50	49	18	24	22	25	12	12	7	13	7				5	1										2181780.0	

1-4465.00 DELAWARE RIVER AT BELVIDERE, N. J.

SUMMARY DURATION TABLE OF DAILY DISCHARGE

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16436	100.0	9	2400.00	929	12842	78.1	18	11000.0	859	3424	20.8	27	51000	34	110	.6
1	610.00	9	16436	100.0	10	2800.00	946	11913	72.5	19	13000.0	564	2565	15.6	28	60000	35	76	.4
2	720.00	52	16427	99.9	11	3300.00	1207	10967	66.7	20	15000.0	687	2001	12.2	29	71000	19	41	.2
3	860.00	121	16375	99.6	12	4000.00	1136	9760	59.4	21	18000.0	448	1314	8.0	30	84000	11	22	.1
4	1000.00	324	16254	98.9	13	4700.00	1150	8624	52.5	22	22000.0	271	866	5.3	31	100000	5	11	.0
5	1200.00	475	15930	96.9	14	5600.00	1068	7474	45.5	23	26000.0	172	595	3.6	32	120000	4	6	.0
6	1400.00	780	15455	94.0	15	6600.00	1118	6408	39.0	24	30000.0	158	423	2.6	33	140000	1	2	.0
7	1700.00	821	14675	89.3	16	7800.00	938	5288	32.2	25	36000.0	95	265	1.6	34	170000	1	1	.0
8	2000.00	1012	13854	84.3	17	9200.00	926	4350	26.5	26	43000.0	60	170	1.0					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

DELAWARE RIVER AT BELVIDERE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1923	895.0 11	895.0 10	921.0 5	973.0 5	1260.0 11	1430.0 11	1560.0 11	1640.0 8	2420.0 11	6450.0 11
1924	1010.0 20	1070.0 15	1180.0 15	1260.0 15	1340.0 15	1540.0 15	1870.0 19	2480.0 21	3860.0 23	8280.0 28
1925	1310.0 30	1330.0 27	1400.0 24	1610.0 26	2390.0 37	3210.0 39	3360.0 37	3610.0 33	4220.0 27	6830.0 16
1926	1150.0 25	1200.0 22	1370.0 22	1440.0 22	1550.0 20	2070.0 26	2620.0 28	3190.0 29	4210.0 26	8720.0 31
1927	1850.0 40	1900.0 39	2110.0 39	2230.0 39	3010.0 41	3820.0 40	4710.0 41	5530.0 41	7110.0 41	11000.0 41
1928	1560.0 34	1810.0 37	2050.0 37	2120.0 37	2240.0 34	2530.0 32	2780.0 30	3240.0 30	4350.0 29	10200.0 37
1929	1100.0 24	1130.0 20	1250.0 17	1410.0 19	1700.0 26	1810.0 20	1980.0 21	2470.0 20	3650.0 21	8160.0 26
1930	970.0 17	1100.0 19	1150.0 14	1160.0 12	1180.0 8	1340.0 9	1520.0 7	1530.0 6	1770.0 3	3930.0 3
1931	954.0 13	1000.0 13	1130.0 13	1220.0 14	1260.0 12	1390.0 10	1550.0 9	1770.0 11	3270.0 19	6730.0 15
1932	874.0 10	943.0 11	989.0 9	1010.0 6	1110.0 7	1450.0 12	1830.0 18	2850.0 24	4620.0 31	7850.0 22
1933	1060.0 22	1290.0 25	1410.0 25	1500.0 23	1580.0 21	1880.0 22	2500.0 25	3670.0 34	6440.0 39	7900.0 24
1934	1260.0 28	1500.0 31	1680.0 30	1880.0 31	2070.0 31	2800.0 35	2990.0 33	3500.0 32	4990.0 34	8260.0 27
1935	962.0 15	1080.0 16	1360.0 21	1400.0 18	1580.0 22	2040.0 24	2340.0 23	4130.0 38	4850.0 33	9890.0 36
1936	986.0 19	1040.0 14	1210.0 16	1360.0 17	1520.0 18	1860.0 21	1820.0 17	2040.0 17	2960.0 16	7150.0 18
1937	1740.0 39	1960.0 40	2130.0 40	2330.0 40	2770.0 40	3970.0 41	3670.0 39	4250.0 39	5950.0 38	8800.0 32
1938	2440.0 43	2600.0 43	3080.0 43	3230.0 42	4070.0 43	5860.0 43	6560.0 43	8110.0 43	8770.0 43	10500.0 39
1939	838.0 9	866.0 9	1050.0 10	1160.0 13	1270.0 13	1480.0 13	1520.0 8	1690.0 9	2570.0 13	5060.0 5
1940	1460.0 32	1590.0 32	1870.0 34	2000.0 36	2250.0 35	3120.0 38	3840.0 40	3800.0 36	5030.0 35	9810.0 34
1941	785.0 7	809.0 5	858.0 3	940.0 3	1000.0 3	1120.0 3	1450.0 6	1640.0 7	2080.0 6	5510.0 8
1942	1990.0 42	2350.0 42	2770.0 42	3230.0 43	3830.0 42	5210.0 42	4070.0 42	5910.0 42	8120.0 42	11000.0 42
1943	636.0 2	810.0 6	962.0 7	1050.0 7	1100.0 6	1290.0 5	1360.0 10	1950.0 16	3870.0 24	7010.0 17
1944	717.0 5	863.0 8	970.0 8	1050.0 8	1060.0 4	1320.0 8	1710.0 16	1800.0 14	2460.0 12	7620.0 21
1945	3800.0 44	4050.0 44	4310.0 44	5070.0 44	5250.0 44	7900.0 44	8420.0 44	9690.0 44	9540.0 44	11500.0 43
1946	1060.0 23	1350.0 28	1700.0 31	1820.0 30	1980.0 30	2700.0 34	3070.0 35	2980.0 26	3180.0 17	6700.0 14
1947	976.0 18	1330.0 26	1620.0 29	1700.0 29	1780.0 27	2410.0 31	3460.0 38	4930.0 40	4630.0 32	10300.0 34
1948	966.0 16	1090.0 17	1310.0 20	1520.0 24	1650.0 24	1680.0 18	1960.0 20	2350.0 18	3210.0 18	8640.0 30
1949	702.0 4	787.0 4	955.0 6	1080.0 9	1230.0 10	1300.0 6	1370.0 4	1490.0 5	1960.0 4	6380.0 10
1950	1350.0 31	1380.0 30	1470.0 26	1670.0 28	1820.0 28	2300.0 29	2620.0 29	2920.0 25	4350.0 30	10600.0 40
1951	1570.0 35	1640.0 33	1960.0 36	1970.0 33	2410.0 38	2830.0 37	3320.0 36	3710.0 35	4180.0 25	9880.0 35
1952	1160.0 26	1280.0 24	1500.0 27	1610.0 27	1690.0 25	2050.0 25	2980.0 32	3040.0 27	5190.0 37	11500.0 44
1953	645.0 3	749.0 2	865.0 4	943.0 4	1060.0 5	1270.0 4	1250.0 2	1440.0 3	2280.0 9	7230.0 19
1954	610.0 1	743.0 1	782.0 1	827.0 2	854.0 1	1010.0 1	1310.0 3	1340.0 2	2600.0 14	6540.0 12
1955	940.0 12	1090.0 18	1260.0 18	1310.0 16	1390.0 16	1950.0 23	2430.0 24	3880.0 37	7080.0 40	9130.0 33
1956	1950.0 41	1980.0 41	2060.0 38	2220.0 38	2370.0 36	2820.0 36	3010.0 34	3330.0 31	3810.0 22	7890.0 23
1957	1180.0 27	1250.0 23	1400.0 23	1430.0 21	1510.0 17	1620.0 16	1680.0 14	1740.0 10	2060.0 5	6180.0 9
1958	1580.0 37	1690.0 34	1850.0 32	1980.0 34	2080.0 32	2310.0 30	2580.0 26	2730.0 23	4340.0 28	8140.0 25
1959	1570.0 36	1740.0 36	1860.0 33	1980.0 35	2220.0 33	2280.0 28	2300.0 27	2420.0 19	3430.0 20	7240.0 20
1960	1700.0 38	1870.0 38	2190.0 41	2340.0 41	2450.0 39	2560.0 33	2840.0 31	3190.0 28	5040.0 26	8410.0 29
1961	1520.0 33	1730.0 35	1880.0 35	1910.0 32	1960.0 29	2180.0 27	2580.0 27	2650.0 22	2960.0 15	6570.0 13
1962	1280.0 29	1350.0 29	1500.0 28	1560.0 25	1600.0 23	1670.0 19	1680.0 15	1780.0 12	2240.0 8	5340.0 6
1963	795.0 8	841.0 7	1070.0 11	1090.0 10	1280.0 14	1500.0 14	1600.0 12	1800.0 13	2180.0 7	5340.0 7
1964	955.0 14	999.0 12	1100.0 12	1150.0 11	1220.0 9	1300.0 7	1380.0 5	1450.0 4	1600.0 2	3840.0 2
1965	754.0 6	772.0 3	787.0 2	817.0 1	985.0 2	1080.0 2	1120.0 1	1260.0 1	1460.0 1	3610.0 1
1966	1050.0 21	1170.0 21	1260.0 19	1420.0 20	1530.0 19	1620.0 17	1680.0 13	1810.0 15	2310.0 10	4490.0 4

MEAN	1242.273	1364.023	1535.659	1658.636	1851.341	2292.273	2576.136	3016.591	4027.273	7775.680
VARIANCE	325902.125	368746.312	447236.062	588049.812	767790.125	1803713.000	2036003.000	2986941.000	3726385.000	4458851.000
STD DEV	570.878	607.245	668.757	766.844	875.236	1343.024	1426.886	1728.277	1930.385	2111.599
SKEWNESS	2.381	2.303	2.043	2.415	1.993	2.419	2.249	2.054	1.084	-.069
SE OF SKEW	.357	.357	.357	.357	.357	.357	.357	.357	.357	.357
SER CORR	-.049	-.028	.003	-.021	-.041	-.009	.001	-.033	-.023	.184
C OF VAR	.460	.445	.435	.462	.473	.586	.554	.573	.479	.272

LOGS

MEAN OF	3.060	3.103	3.154	3.186	3.231	3.310	3.363	3.426	3.559	3.873
VAR OF	.027	.026	.026	.027	.030	.039	.038	.044	.041	.017
STD DEV OF	.166	.161	.162	.165	.173	.198	.196	.209	.202	.129
SKEW OF	.740	.778	.660	.767	.743	.952	.779	.597	.089	-.699
SE OF SKEW OF	.357	.357	.357	.357	.357	.357	.357	.357	.357	.357
SER CORR OF	.032	.029	.068	.030	.022	.040	.075	.064	.100	.289
C OF VAR OF	.054	.052	.051	.052	.054	.060	.058	.061	.057	.033

1-4465.00 DELAWARE RIVER AT BELVIDERE, N. J.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	583.383	661.855	719.701	785.359	838.966	972.291	1049.819	1076.141	1269.058	3233.609
20.00	671.153	754.405	835.012	899.738	970.594	1109.193	1230.273	1320.139	1709.261	4355.949
10.00	733.576	820.596	915.515	981.564	1064.752	1213.686	1362.320	1494.861	2008.452	5030.656
5.00	828.736	921.812	1036.556	1106.806	1209.042	1381.769	1568.661	1764.092	2447.558	5909.324
2.00	1096.654	1207.761	1369.851	1461.565	1619.348	1899.094	2176.942	2542.171	3599.300	7730.211
1.25	1550.612	1693.460	1918.223	2067.139	2325.086	2889.682	3280.511	3919.868	5344.758	9630.914
1.11	1911.280	2079.792	2343.756	2551.040	2893.021	3760.031	4209.555	5056.742	6597.684	10610.102
1.04	2442.286	2649.009	2958.166	3266.840	3738.214	5155.770	5645.945	6783.461	8283.676	11615.082
1.02	2897.278	3137.088	3475.464	3882.807	4469.492	6448.215	6932.223	8303.734	9611.324	12233.109
1.01	3407.460	3684.704	4047.265	4575.883	5295.914	7992.809	8427.176	10045.117	10998.586	12763.207

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DELAWARE RIVER AT BELVIDERE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1923	70000.0 21	57000.0 21	40800.0 22	33900.0 11	29400.0 5	20100.0 11	16600.0 16	13600.0 19	10500.0 27	6090.0 35
1924	89000.0 13	70300.0 9	45400.0 9	31600.0 14	24500.0 13	20100.0 12	15700.0 18	12800.0 22	12500.0 14	7670.0 27
1925	96000.0 10	67500.0 12	42300.0 17	29600.0 18	21200.0 23	16700.0 20	13600.0 24	11800.0 26	8980.0 37	6790.0 29
1926	42800.0 40	35300.0 38	27000.0 37	19600.0 41	17900.0 32	14600.0 28	12500.0 30	10900.0 32	10700.0 25	7110.0 27
1927	72000.0 20	58300.0 19	39100.0 24	32600.0 12	22900.0 17	16400.0 22	14400.0 20	13400.0 20	12000.0 18	9480.0 11
1928	84000.0 14	64500.0 16	43000.0 14	28700.0 19	26200.0 8	24500.0 3	20400.0 3	17100.0 7	15200.0 6	14100.0 1
1929	74000.0 18	66500.0 14	43500.0 13	30500.0 15	24600.0 12	22600.0 5	19200.0 8	15900.0 11	12000.0 19	7200.0 25
1930	33600.0 42	27600.0 42	22500.0 42	17600.0 43	16300.0 38	13700.0 36	10600.0 42	10600.0 38	9390.0 34	6490.0 31
1931	45200.0 39	37000.0 35	29700.0 34	24900.0 28	19200.0 28	15600.0 25	13300.0 26	11800.0 27	9530.0 32	5690.0 40
1932	52200.0 35	42400.0 30	33400.0 29	26600.0 26	19000.0 29	13400.0 32	12000.0 32	11700.0 30	9480.0 33	5840.0 39
1933	109000.0 6	69700.0 10	39800.0 23	26100.0 27	21800.0 20	16700.0 21	13600.0 25	11800.0 28	11400.0 21	9410.0 12
1934	55000.0 32	31900.0 40	21400.0 43	19300.0 42	17200.0 35	13400.0 33	11300.0 38	9950.0 41	8770.0 40	6610.0 30
1935	59700.0 30	45000.0 29	31000.0 32	20000.0 39	16300.0 39	13200.0 34	12000.0 33	11200.0 29	10800.0 24	8070.0 21
1936	166000.0 2	134000.0 1	91600.0 1	73700.0 1	48200.0 1	30600.0 1	22400.0 1	18400.0 1	16100.0 4	9570.0 9
1937	56400.0 31	36400.0 36	26800.0 38	21200.0 36	18700.0 30	15000.0 26	13700.0 22	13700.0 18	12400.0 15	8500.0 15
1938	89800.0 12	73700.0 7	43900.0 11	24600.0 29	15400.0 43	12600.0 41	12200.0 31	10800.0 33	10400.0 28	9560.0 8
1939	72000.0 19	56300.0 24	41300.0 20	27500.0 25	21000.0 24	16700.0 15	16700.0 15	14200.0 15	13400.0 10	8170.0 19
1940	129000.0 3	89100.0 3	64900.0 4	57700.0 2	42400.0 2	27100.0 2	21800.0 2	17800.0 2	13100.0 11	8440.0 17
1941	45700.0 38	39200.0 33	29800.0 33	23600.0 32	17800.0 33	12200.0 43	10400.0 43	10800.0 34	9860.0 30	6340.0 32
1942	98800.0 8	64300.0 17	38300.0 26	23700.0 31	18200.0 31	13900.0 30	13800.0 21	12300.0 23	10300.0 29	7260.0 24
1943	91300.0 11	67200.0 13	42000.0 18	28100.0 21	22500.0 18	17300.0 19	17400.0 13	16400.0 9	14900.0 7	10600.0 4
1944	54500.0 33	36000.0 37	24800.0 40	20400.0 37	17800.0 34	16300.0 23	12900.0 29	10800.0 35	8840.0 36	6020.0 36
1945	62700.0 25	56800.0 22	50700.0 7	35600.0 9	31600.0 4	21900.0 7	19600.0 5	17400.0 6	15900.0 5	10700.0 3
1946	62200.0 26	50200.0 28	35600.0 28	27900.0 22	19900.0 27	12800.0 39	13100.0 28	12100.0 24	11200.0 22	8920.0 14
1947	79100.0 16	63400.0 18	41000.0 21	27900.0 23	24300.0 14	20200.0 10	18600.0 9	16100.0 10	13900.0 8	9120.0 13
1948	110000.0 4	88600.0 4	68300.0 2	46400.0 3	32500.0 3	22900.0 4	19400.0 7	16800.0 8	12800.0 12	8490.0 16
1949	99300.0 7	74500.0 6	47200.0 8	37600.0 5	24200.0 15	18400.0 18	15300.0 19	14100.0 16	11900.0 20	7050.0 28
1950	67200.0 22	57700.0 20	42400.0 15	37000.0 6	25800.0 10	19100.0 16	16100.0 17	14000.0 17	12600.0 13	8110.0 20
1951	97800.0 9	79300.0 5	53300.0 6	36700.0 8	26200.0 9	20800.0 9	19600.0 6	17700.0 4	16300.0 3	9930.0 6
1952	61100.0 28	50300.0 27	39000.0 25	32500.0 13	27500.0 7	22100.0 6	20300.0 4	17700.0 5	16500.0 2	11700.0 2
1953	110000.0 5	72000.0 8	44300.0 10	27900.0 24	21900.0 19	20000.0 13	18100.0 11	17800.0 3	16600.0 1	9510.0 10
1954	33800.0 41	27000.0 43	22900.0 41	19900.0 40	15600.0 42	12400.0 42	13200.0 27	11900.0 25	10600.0 26	6340.0 33
1955	184000.0 1	123000.0 2	65800.0 3	36900.0 7	21500.0 21	12700.0 40	10800.0 39	9650.0 42	9530.0 31	7610.0 23
1956	74400.0 17	65100.0 15	43800.0 12	29700.0 17	25700.0 11	19700.0 14	16900.0 14	15000.0 13	12100.0 17	9990.0 5
1957	50600.0 36	42000.0 31	32400.0 30	22700.0 34	15700.0 41	12900.0 38	10800.0 40	10300.0 40	9090.0 36	5880.0 38
1958	63500.0 24	56000.0 25	41800.0 19	34700.0 10	27900.0 6	21500.0 8	18200.0 10	15500.0 12	13600.0 9	8120.0 19
1959	49200.0 37	34100.0 39	25100.0 39	20200.0 38	16000.0 40	13200.0 35	11400.0 36	10500.0 39	9260.0 35	6270.0 34
1960	83800.0 15	68300.0 11	56200.0 5	38000.0 4	24000.0 16	15800.0 24	13600.0 23	12900.0 21	12300.0 16	9690.0 7
1961	60300.0 29	51800.0 26	36200.0 27	28500.0 20	20200.0 25	19100.0 17	18000.0 12	14900.0 14	10800.0 23	7140.0 26
1962	53600.0 34	39200.0 34	27500.0 36	24300.0 30	20100.0 26	14700.0 27	11400.0 37	10700.0 36	8350.0 42	5160.0 42
1963	65700.0 23	56500.0 23	42300.0 16	30000.0 16	21200.0 22	13700.0 31	10800.0 41	8970.0 43	7410.0 43	5120.0 43
1964	61500.0 27	41000.0 32	31500.0 31	23200.0 33	16500.0 37	14100.0 29	11500.0 35	11000.0 31	8780.0 39	5380.0 41
1965	22500.0 44	18900.0 44	15100.0 45	10600.0 45	8140.0 45	6590.0 45	6830.0 45	5800.0 45	4710.0 45	2990.0 45
1966	21500.0 45	18900.0 45	15200.0 44	13100.0 44	12800.0 44	9770.0 44	8610.0 44	7980.0 44	6320.0 44	4120.0 44
1967	30000.0 43	28900.0 41	27600.0 35	21400.0 35	16700.0 36	13000.0 37	11700.0 34	10600.0 37	8460.0 41	5980.0 37

1-4465.00 DELAWARE RIVER AT BELVIDERE, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	73106.625	56282.219	39277.777	28982.219	22098.664	16936.887	14674.219	13036.664	11323.555	7738.441
VARIANCE	1.095x10 ⁹	5.574x10 ⁸	2.101x10 ⁸	1.170x10 ⁸	5.017x10 ⁷	2.197x10 ⁷	1.388x10 ⁷	9.057x10 ⁶	7.60x10 ⁶	4.411x10 ⁶
STD DEV	33099.145	23609.742	14496.000	10817.621	7082.961	4687.016	3725.197	3009.508	2756.084	2100.229
SKENNESS	1.283	1.126	1.205	1.950	1.561	.607	.267	.092	.153	.457
SE OF SKEW	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR	-.095	-.080	-.074	-.045	-.023	.098	.167	.254	.366	.318
C OF VAR	.453	.419	.369	.373	.321	.277	.254	.231	.243	.271

LOGS

MEAN OF	4.822	4.714	4.566	4.437	4.325	4.212	4.152	4.103	4.040	3.872
VAR OF	.039	.034	.025	.022	.017	.015	.013	.011	.013	.015
STD DEV OF	.197	.184	.159	.148	.131	.123	.113	.106	.112	.124
SKEW OF	-.321	-.306	-.227	.098	-.019	-.403	-.300	-.599	-.711	-.615
SE OF SKEW OF	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR OF	.109	.075	.055	.102	.112	.187	.229	.300	.425	.424
C OF VAR OF	.041	.039	.035	.033	.030	.029	.027	.026	.028	.032

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	20833.746	17529.840	14838.457	12695.285	10416.281	7774.594	7307.113	6489.969	5275.020	3388.767
1.05	30314.625	24843.344	19762.895	15772.367	12831.051	9934.621	9049.820	8191.824	6851.336	4461.305
1.11	36663.699	29658.145	22898.746	17743.516	14334.152	11233.777	10089.645	9179.984	7773.000	5102.160
1.25	45745.133	36460.766	27231.160	20502.711	16386.203	12943.937	11454.480	10439.891	8949.398	5935.715
2.00	68009.437	52842.375	37361.520	27194.879	21143.977	16618.523	14391.516	12990.633	11316.387	7670.961
5.00	97705.562	74270.812	50268.805	36355.875	27246.176	20769.746	17749.980	15619.848	13703.855	9513.227
10.00	116527.687	87688.437	58257.250	42448.340	31090.867	23097.984	19665.320	16979.812	14905.430	10483.102
25.00	139247.687	103766.000	67794.687	50195.129	35775.984	25674.891	21820.336	18390.957	16120.211	11499.289
50.00	155413.875	115143.625	74542.312	56010.172	39162.867	27380.113	23270.109	19271.098	16858.316	12137.367
100.00	170961.625	126047.187	81018.875	61869.676	42476.238	28934.141	24609.914	20036.496	17486.062	12694.477

STATISTICS OF MONTHLY MEANS, 1923-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1923-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	4359.	4006.	2.220	.9190	4.688	.395	3.511	.3192	.6530	.0909	7.780	.567
NOV	7221.	5078.	.8813	.7032	7.765	.633	3.744	.3337	-.1696	.0891	8.295	.640
DEC	7977.	4600.	.8625	.5766	8.579	.457	3.828	.2658	-.2757	.0694	8.482	.599
JAN	7984.	4075.	.9110	.5103	8.587	.499	3.843	.2385	-.4279	.0620	8.517	.608
FEB	7990.	3918.	.9474	.4904	8.593	.367	3.853	.2095	.0611	.0544	8.539	.340
MAR	14540.	6732.	1.969	.4629	15.64	-.105	4.125	.1806	.2043	.0438	9.140	-.081
APR	16170.	6535.	1.120	.4041	17.39	-.073	4.174	.1798	-.3804	.0431	9.250	-.063
MAY	9610.	4162.	.4490	.4331	10.33	.228	3.940	.1993	-.2270	.0506	8.731	.226
JUN	5386.	2830.	1.391	.5254	5.792	.625	3.679	.2133	.2074	.0580	8.152	.678
JUL	4222.	3721.	2.200	.8815	4.540	.724	3.514	.2921	.8105	.0831	7.787	.757
AUG	3770.	3457.	2.607	.9168	4.055	.401	3.458	.3033	.7249	.0877	7.663	.544
SEP	3751.	3260.	1.926	.8693	4.033	.628	3.459	.2988	.8408	.0864	7.664	.773

1-4530.00 LEHIGH RIVER AT BETHLEHEM, PA.

Location.--Lat 40°36'55", long 75°22'45", 120 ft upstream from New Street Bridge.

Drainage area.--1,279 sq mi, includes that of Monacacy Creek. At site used prior to Oct. 1, 1928, 1,229 sq mi.

Remarks.--Regulation since January 1941 not very significant. Diversion to canal during navigation seasons 1919-29 not included in records (total capacity of canal was about 45 cfs). Between October 1928 and September 1959 flows below about 800 cfs include a recirculation of water varying between zero and about 80 cfs.

DURATION TABLE OF DAILY DISCHARGE

[illegible]

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	21915	100.0	9	690.00	1412	18425	84.1	18	3600.0	1035	3435	15.7	27	19000	17	53	+2
1	160.00	1	21915	100.0	10	830.00	1633	17013	77.6	19	4300.0	829	2400	11.0	28	22000	20	36	+1
2	190.00	4	21914	100.0	11	1200.00	1662	15387	70.2	20	5200.0	9	521	17.2	29	27000	8	16	+0
3	230.00	37	21910	100.0	12	1800.00	1587	13118	62.6	21	6200.0	393	1050	4.8	30	32000	2	8	+0
4	280.00	97	21873	99.9	13	2400.00	2058	12131	55.4	22	7400.0	255	657	3.0	31	39000	7	6	+0
5	330.00	343	21796	99.5	14	1700.00	2144	10073	46.0	23	8900.0	173	402	1.8	32	46000	2	4	+0
6	400.00	733	21453	97.9	15	2100.00	1595	7929	36.2	24	11000.0	75	229	1.0	33	56000	1	2	+0
7	480.00	1079	20720	94.5	16	2500.00	1512	6334	28.9	25	13000.0	49	154	0.7	34	67000	1	1	+0
8	580.00	1216	19641	89.6	17	3000.00	1387	4822	22.0	26	15000.0	52	105	0.5					

1-4530.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

LEHIGH RIVER AT BETHLEHEM, PA.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1903	605.0 48	632.0 49	715.0 51	788.0 51	951.0 53	1350.0 55	1510.0 54	1700.0 54	2010.0 53	2420.0 41
1910	160.0 1	222.0 1	260.0 1	282.0 1	306.0 1	392.0 3	415.0 2	451.0 3	547.0 3	1470.0 5
1911	384.0 16	406.0 17	463.0 25	509.0 29	661.0 38	799.0 34	1340.0 53	1320.0 46	1790.0 51	2310.0 37
1912	321.0 8	376.0 12	399.0 14	416.0 13	506.0 19	622.0 23	653.0 23	776.0 24	1230.0 28	2370.0 40
1913	349.0 12	376.0 13	399.0 15	446.0 17	467.0 13	531.0 15	611.0 20	695.0 19	1030.0 21	2000.0 18
1914	198.0 2	238.0 2	272.0 3	292.0 4	353.0 4	370.0 2	420.0 4	528.0 7	761.0 13	2120.0 26
1915	495.0 34	502.0 35	557.0 35	572.0 34	669.0 39	821.0 37	919.0 35	1160.0 40	1340.0 36	1700.0 9
1916	408.0 20	451.0 25	468.0 26	488.0 24	550.0 25	621.0 22	650.0 22	722.0 22	1210.0 25	2080.0 23
1917	250.0 3	297.0 5	316.0 5	383.0 8	620.0 31	906.0 42	1020.0 39	1320.0 47	1340.0 37	2220.0 32
1918	381.0 15	405.0 16	447.0 20	500.0 27	519.0 22	647.0 24	648.0 21	702.0 21	828.0 14	2030.0 20
1919	552.0 42	561.0 41	621.0 45	648.0 44	700.0 42	913.0 44	1180.0 48	1570.0 53	1760.0 49	2650.0 48
1920	432.0 26	483.0 31	571.0 40	694.0 47	892.0 50	1000.0 49	1040.0 40	1110.0 36	1220.0 26	2250.0 34
1921	425.0 24	428.0 20	430.0 16	436.0 15	449.0 11	466.0 10	498.0 9	563.0 9	730.0 10	2040.0 21
1922	410.0 21	430.0 21	438.0 17	444.0 16	463.0 12	475.0 11	564.0 12	575.0 10	666.0 5	1950.0 17
1923	335.0 10	352.0 9	385.0 11	398.0 10	423.0 9	488.0 12	604.0 17	588.0 11	733.0 12	1700.0 10
1924	430.0 25	455.0 28	482.0 29	504.0 28	552.0 26	671.0 27	911.0 34	916.0 27	1300.0 34	2340.0 32
1925	455.0 30	485.0 32	497.0 30	559.0 31	624.0 33	656.0 25	871.0 31	930.0 28	1120.0 24	1850.0 14
1926	402.0 18	425.0 19	448.0 21	491.0 25	534.0 24	730.0 31	897.0 33	1030.0 34	1310.0 35	2170.0 28
1927	402.0 19	417.0 18	447.0 18	483.0 22	567.0 28	938.0 46	1100.0 45	1390.0 48	1650.0 45	2710.0 50
1928	680.0 52	698.0 52	751.0 52	805.0 52	836.0 49	913.0 43	929.0 36	974.0 31	1230.0 29	2650.0 42
1929	539.0 36	547.0 36	565.0 37	581.0 37	713.0 43	839.0 39	890.0 32	1010.0 33	1420.0 41	2190.0 29
1930	276.0 6	307.0 6	354.0 8	372.0 7	389.0 7	412.0 5	416.0 3	444.0 2	505.0 1	1240.0 1
1931	367.0 14	376.0 14	388.0 12	393.0 9	407.0 8	431.0 7	474.0 7	524.0 6	731.0 11	1410.0 3
1932	296.0 7	309.0 7	345.0 6	352.0 5	369.0 5	442.0 8	544.0 10	775.0 23	1100.0 23	2070.0 22
1933	500.0 35	500.0 34	514.0 32	568.0 32	658.0 37	1070.0 51	1260.0 51	1500.0 51	1530.0 42	2570.0 47
1934	460.0 32	476.0 30	520.0 33	602.0 41	693.0 41	799.0 35	1090.0 44	1280.0 44	1650.0 46	2430.0 42
1935	551.0 41	575.0 43	590.0 42	593.0 39	641.0 34	888.0 41	1000.0 38	1270.0 42	1830.0 52	3060.0 54
1936	423.0 23	454.0 27	475.0 28	485.0 23	515.0 21	555.0 18	601.0 16	610.0 14	719.0 9	2020.0 19
1937	578.0 46	617.0 47	637.0 47	653.0 45	723.0 44	1210.0 54	1220.0 50	1280.0 45	1770.0 50	2520.0 43
1938	801.0 55	807.0 55	863.0 56	921.0 55	1080.0 56	1650.0 56	1910.0 56	2070.0 56	2340.0 55	3020.0 52
1939	436.0 27	449.0 24	459.0 24	492.0 26	520.0 23	573.0 20	606.0 18	631.0 15	682.0 7	1500.0 6
1940	546.0 39	557.0 39	560.0 36	574.0 35	648.0 36	839.0 40	1300.0 52	1270.0 43	1560.0 44	2340.0 39
1941	422.0 22	448.0 23	455.0 22	465.0 19	476.0 14	536.0 17	607.0 19	695.0 20	849.0 17	1610.0 7
1942	980.0 57	1010.0 57	1100.0 57	1120.0 57	1250.0 57	2050.0 57	2020.0 57	2280.0 57	2680.0 57	3280.0 57
1943	456.0 31	456.0 29	456.0 23	460.0 18	480.0 15	512.0 13	568.0 13	672.0 17	1360.0 38	1860.0 15
1944	450.0 29	453.0 26	470.0 27	474.0 21	506.0 20	567.0 19	594.0 15	609.0 13	835.0 15	1770.0 12
1945	1060.0 58	1140.0 58	1190.0 58	1360.0 58	1480.0 58	2280.0 58	2370.0 58	2570.0 58	2680.0 58	3160.0 56
1946	624.0 50	632.0 50	653.0 49	705.0 49	827.0 47	975.0 47	1110.0 46	1100.0 37	1250.0 33	2100.0 24
1947	569.0 44	576.0 45	591.0 43	603.0 42	642.0 35	828.0 38	1060.0 42	1510.0 52	1400.0 40	2830.0 51
1948	541.0 38	550.0 38	555.0 34	582.0 38	615.0 30	669.0 26	846.0 30	1000.0 32	1230.0 30	2540.0 44
1949	584.0 47	589.0 46	626.0 46	680.0 46	789.0 46	804.0 36	819.0 27	862.0 26	921.0 20	2110.0 25
1950	570.0 45	575.0 44	591.0 44	622.0 43	729.0 45	792.0 33	799.0 26	957.0 30	1370.0 39	3030.0 53
1951	648.0 51	686.0 51	691.0 50	720.0 50	834.0 48	924.0 45	1170.0 47	1390.0 49	1540.0 43	3110.0 55
1952	831.0 56	842.0 56	853.0 55	874.0 54	925.0 52	1130.0 52	1900.0 55	2030.0 55	2540.0 56	4000.0 58
1953	564.0 43	565.0 42	568.0 38	570.0 33	581.0 29	701.0 30	717.0 25	795.0 25	1040.0 22	2220.0 33
1954	476.0 33	492.0 33	512.0 31	535.0 30	552.0 27	593.0 21	659.0 24	672.0 18	900.0 18	1810.0 13
1955	436.0 28	438.0 22	447.0 19	471.0 20	505.0 18	680.0 28	829.0 28	1170.0 41	2170.0 54	2550.0 45
1956	798.0 54	805.0 54	840.0 54	929.0 56	991.0 55	1170.0 53	1210.0 49	1490.0 50	1670.0 47	2290.0 36
1957	388.0 17	391.0 15	395.0 13	411.0 12	431.0 10	461.0 9	488.0 8	537.0 8	705.0 8	2190.0 30
1958	540.0 37	547.0 37	571.0 39	580.0 36	674.0 40	770.0 32	846.0 29	955.0 29	1240.0 32	2200.0 31
1959	622.0 49	627.0 48	649.0 48	701.0 48	899.0 51	1000.0 48	1040.0 41	1060.0 36	1230.0 31	2260.0 35
1960	693.0 53	701.0 53	804.0 53	852.0 53	960.0 54	1060.0 50	1090.0 43	1150.0 39	1710.0 48	2570.0 46
1961	550.0 40	561.0 40	577.0 41	596.0 40	621.0 32	697.0 29	955.0 37	1040.0 35	1220.0 27	2150.0 27
1962	360.0 13	373.0 11	383.0 10	401.0 11	489.0 16	535.0 16	550.0 11	608.0 12	904.0 19	1910.0 16
1963	328.0 9	334.0 8	347.0 7	356.0 6	378.0 6	412.0 6	429.0 5	498.0 4	656.0 4	1710.0 11
1964	255.0 4	265.0 4	272.0 4	291.0 3	315.0 2	363.0 1	386.0 1	395.0 1	517.0 2	1460.0 4
1965	257.0 5	263.0 3	267.0 2	289.0 2	349.0 3	398.0 4	440.0 6	498.0 5	676.0 6	1400.0 2
1966	338.0 11	362.0 10	378.0 9	420.0 14	494.0 17	515.0 14	572.0 14	632.0 16	847.0 16	1620.0 8
MEAN	485.983	505.069	532.362	565.362	634.310	783.517	899.500	1014.810	1272.103	2226.552
VARIANCE	31075.719	31130.543	34639.980	41085.348	53314.875	139961.500	179123.937	227015.750	285641.750	283819.062
STD DEV	176.283	176.439	186.118	202.695	230.900	374.114	423.230	476.462	534.455	532.747
SKENNESS	1.010	1.279	1.360	1.535	1.315	2.001	1.411	1.185	.861	.713
SE OF SKEW	.314	.314	.314	.314	.314	.314	.314	.314	.314	.314
SER CORR	.249	.225	.167	.127	.086	.009	-.025	-.043	-.038	.187
C OF VAR	.363	.349	.350	.359	.364	.477	.471	.470	.420	.239

LOGS

MEAN OF	2.659	2.679	2.703	2.728	2.777	2.856	2.913	2.963	3.068	3.336
VAR OF	.025	.021	.020	.020	.022	.032	.035	.037	.033	.011
STD DEV OF	.158	.145	.142	.143	.147	.178	.188	.194	.182	.103
SKEW OF	-.289	.082	.234	.348	.300	.559	.297	.197	-.039	-.042
SE OF SKEW OF	.314	.314	.314	.314	.314	.314	.314	.314	.314	.314
SER CORR OF	.297	.307	.264	.224	.158	.106	.062	.055	.025	.213
C OF VAR OF	.059	.054	.052	.052	.053	.062	.065	.065	.059	.031

1-4530.00 LEHIGH RIVER AT BETHLEHEM, PA.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	181.302	224.886	249.649	271.299	293.231	327.758	328.203	347.823	435.902	1238.777
20.00	243.746	278.700	301.483	322.672	353.196	392.425	416.527	453.122	584.190	1462.544
10.00	283.401	312.998	334.905	356.270	392.358	437.341	476.548	524.502	682.153	1596.893
5.00	337.961	360.800	382.022	404.219	448.177	504.743	564.980	629.302	822.209	1775.155
2.00	464.245	475.852	498.077	524.987	588.392	690.278	800.274	905.633	1171.736	2169.612
1.25	622.106	631.639	661.200	700.467	791.205	996.279	1168.540	1330.555	1663.380	2645.555
1.11	718.028	734.329	772.387	823.481	932.759	1234.366	1442.013	1640.677	1994.619	2931.847
1.04	830.751	863.998	916.786	986.964	1120.143	1578.804	1821.865	2064.672	2418.042	3269.094
1.02	909.332	960.742	1027.333	1114.753	1266.065	1869.206	2130.234	2403.759	2736.519	3505.981
1.01	983.854	1057.759	1140.524	1247.797	1417.512	2190.456	2460.810	2762.718	3057.382	3732.760

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LEHIGH RIVER AT BETHLEHEM, PA.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1903	26800.0 13	16700.0 14	11400.0 18	8070.0 23	6230.0 19	5330.0 13	4830.0 9	4840.0 5	4060.0 6	3100.0
1904	25800.0 15	15800.0 23	10100.0 28	6290.0 41	5820.0 29	4470.0 28	3730.0 32	3270.0 36	2910.0 35	2140.0
1910	28400.0 10	15600.0 24	10200.0 26	7740.0 28	5570.0 35	4410.0 31	3850.0 28	3690.0 25	3050.0 31	1830.0
1911	9880.0 56	8280.0 53	5790.0 56	4000.0 60	3430.0 58	2650.0 60	2420.0 59	2310.0 59	2130.0 57	1560.0
1912	16600.0 35	13700.0 30	10700.0 24	7670.0 30	6740.0 12	5260.0 14	4500.0 16	3730.0 22	3120.0 27	2280.0
1913	22200.0 21	16700.0 15	10900.0 21	7760.0 27	6180.0 23	5760.0 8	4480.0 17	4230.0 13	3650.0 13	2380.0
1914	10100.0 49	9240.0 46	7510.0 45	5770.0 48	4660.0 45	4060.0 38	3330.0 45	3160.0 39	2700.0 44	1960.0
1915	22600.0 20	13300.0 31	9330.0 34	8160.0 21	6680.0 13	5840.0 7	4450.0 18	3730.0 23	2890.0 36	2040.0
1916	15300.0 37	12900.0 32	9320.0 35	6860.0 35	5620.0 33	3940.0 42	3340.0 44	3110.0 41	2850.0 40	2100.0
1917	14700.0 38	10500.0 38	7560.0 44	5880.0 47	4530.0 48	3330.0 52	2920.0 52	2840.0 49	2610.0 47	1930.0
1918	18100.0 30	12200.0 35	9990.0 29	8010.0 24	6490.0 16	5100.0 17	4660.0 13	4050.0 14	3050.0 32	2090.0
1919	13100.0 40	9530.0 41	6900.0 49	5530.0 50	4850.0 43	4150.0 35	3810.0 30	3360.0 33	3110.0 28	2230.0
1920	18500.0 29	14800.0 27	13400.0 12	10900.0 7	9260.0 3	6620.0 2	4980.0 7	4050.0 15	3590.0 15	2420.0
1921	9950.0 54	9300.0 44	7770.0 42	7210.0 33	5870.0 28	4690.0 24	4190.0 22	3550.0 30	3320.0 21	2160.0
1922	19100.0 28	13900.0 29	10900.0 22	8420.0 18	6500.0 15	5620.0 10	4800.0 10	4630.0 6	3640.0 14	2430.0
1923	9950.0 55	8470.0 51	6910.0 48	6310.0 40	5270.0 37	3760.0 46	3380.0 41	2790.0 51	2210.0 56	1490.0
1924	20600.0 27	14300.0 28	9870.0 31	6810.0 36	5130.0 39	4400.0 32	3700.0 33	3340.0 34	3300.0 22	2220.0
1925	27800.0 11	17100.0 13	11900.0 17	8670.0 15	6200.0 21	4420.0 30	3410.0 39	3050.0 43	2390.0 51	1810.0
1926	11900.0 45	8390.0 52	6460.0 52	5010.0 53	4250.0 52	3330.0 50	2970.0 50	2880.0 47	2670.0 45	1920.0
1927	28800.0 9	19000.0 10	13700.0 10	8810.0 14	5680.0 32	4130.0 36	3250.0 47	3010.0 44	2960.0 34	2110.0
1928	25700.0 16	16100.0 17	11000.0 20	8490.0 16	6620.0 14	5680.0 9	4800.0 11	4490.0 9	4000.0 8	3600.0
1929	12700.0 43	8630.0 50	6260.0 53	5570.0 49	4970.0 42	4500.0 27	4210.0 20	3570.0 29	2880.0 38	1970.0
1930	10100.0 50	6800.0 59	4800.0 60	4260.0 59	3400.0 59	3340.0 51	2960.0 51	2840.0 50	2600.0 48	2020.0
1931	7560.0 60	6420.0 60	5650.0 57	4530.0 55	3340.0 60	3040.0 57	2630.0 56	2340.0 57	1940.0 59	1260.0
1932	11000.0 46	9200.0 47	7740.0 43	5970.0 43	4260.0 51	3130.0 56	2550.0 57	2330.0 58	2050.0 58	1790.0
1933	47900.0 3	28300.0 4	16000.0 4	11300.0 5	9660.0 2	5570.0 11	4100.0 23	3610.0 27	3770.0 12	3150.0
1934	9850.0 57	6990.0 58	5860.0 54	5290.0 51	4530.0 49	3600.0 49	3060.0 49	2730.0 52	2390.0 52	1850.0
1935	46000.0 4	28100.0 5	16000.0 5	9050.0 11	5460.0 36	3610.0 48	3080.0 48	3070.0 42	2790.0 41	2420.0
1936	43500.0 5	29800.0 3	23000.0 1	19400.0 1	13100.0 1	8680.0 1	6350.0 1	5570.0 1	4700.0 4	2790.0
1937	10100.0 51	9200.0 48	8000.0 41	6610.0 38	5130.0 40	4260.0 34	3830.0 29	3920.0 19	3490.0 16	2310.0
1938	17300.0 31	12300.0 34	8850.0 37	6090.0 42	4440.0 50	3700.0 47	3460.0 37	3250.0 37	3150.0 25	2730.0
1939	22800.0 19	16300.0 16	12100.0 16	8410.0 19	5600.0 34	5080.0 18	4650.0 14	4320.0 10	3960.0 9	2490.0
1940	26600.0 14	19100.0 9	13600.0 11	11100.0 6	8380.0 5	6270.0 4	5050.0 6	4320.0 11	3260.0 24	2110.0
1941	7580.0 59	7160.0 57	5840.0 55	4870.0 54	3910.0 55	2830.0 58	2420.0 60	2400.0 56	2310.0 53	1670.0
1942	66700.0 2	36100.0 1	20400.0 2	11900.0 2	7610.0 7	4830.0 21	4380.0 19	3980.0 17	3420.0 17	2510.0
1943	20900.0 25	16000.0 18	10600.0 25	6610.0 39	4550.0 46	3890.0 45	3760.0 31	3610.0 28	3360.0 19	2490.0
1944	23200.0 17	16000.0 19	9550.0 33	5940.0 44	4530.0 47	3940.0 43	3300.0 46	2920.0 46	2550.0 49	1890.0
1945	17200.0 32	14900.0 26	12300.0 14	9360.0 9	6840.0 11	4620.0 26	4190.0 21	3870.0 21	3860.0 10	2650.0
1946	21100.0 23	16000.0 20	11100.0 19	8470.0 17	6150.0 24	3990.0 39	3560.0 36	3370.0 31	3140.0 26	2570.0
1947	17200.0 33	12000.0 36	10100.0 27	7830.0 26	6220.0 20	5070.0 19	4850.0 8	4590.0 8	4010.0 7	2710.0
1948	11000.0 47	10000.0 40	9140.0 36	6690.0 37	6190.0 22	5120.0 16	4690.0 12	4240.0 12	3380.0 18	2370.0
1949	22100.0 22	16000.0 21	10800.0 23	9300.0 10	6130.0 26	4730.0 23	3880.0 27	3680.0 26	3270.0 23	2120.0
1950	13100.0 41	10300.0 39	8230.0 40	7540.0 31	5790.0 30	4460.0 29	3890.0 26	3710.0 24	3320.0 20	2210.0
1951	31100.0 7	18900.0 11	14800.0 6	11900.0 3	7990.0 6	5480.0 12	5720.0 3	5410.0 2	4820.0 3	3150.0
1952	22800.0 18	15100.0 25	9840.0 32	7920.0 25	7140.0 8	6410.0 3	5890.0 2	5240.0 3	5110.0 1	3970.0
1953	29400.0 8	22600.0 6	14000.0 8	9000.0 12	8760.0 4	5940.0 5	5550.0 4	5220.0 4	5030.0 2	3170.0
1954	13030.0 42	9270.0 45	7320.0 46	5940.0 45	3970.0 54	3280.0 53	3390.0 40	2980.0 45	2880.0 39	1850.0
1955	70400.0 1	34600.0 2	19100.0 3	11700.0 4	6860.0 9	3960.0 40	2830.0 53	2540.0 55	2540.0 50	2150.0
1956	27700.0 12	21100.0 7	13900.0 9	8410.0 20	6470.0 17	4850.0 20	3670.0 34	3370.0 32	3060.0 30	2650.0
1957	20700.0 26	16000.0 22	12100.0 15	8140.0 22	5680.0 31	4680.0 41	3350.0 43	3160.0 40	2890.0 37	1900.0
1958	34000.0 6	19900.0 8	12900.0 13	8900.0 13	6840.0 10	5920.0 6	5340.0 5	4600.0 5	4240.0 5	2620.0
1959	10000.0 52	7480.0 55	5120.0 59	4330.0 58	3490.0 57	3210.0 55	2830.0 54	2640.0 53	2270.0 54	1750.0
1960	21000.0 24	17500.0 12	14300.0 7	10100.0 8	6410.0 18	4670.0 25	4050.0 24	4020.0 16	3850.0 11	2960.0
1961	16700.0 34	12500.0 33	9910.0 30	7700.0 29	6040.0 27	5210.0 15	4580.0 15	3890.0 20	3020.0 33	2120.0
1962	10800.0 48	9020.0 49	6470.0 51	5010.0 52	4680.0 44	4300.0 33	3360.0 42	3270.0 35	2780.0 42	1740.0
1963	12200.0 44	9380.0 43	6650.0 38	7260.0 32	6150.0 25	4090.0 37	3420.0 38	2870.0 48	2710.0 43	1890.0
1964	14600.0 39	10600.0 37	8270.0 39	6980.0 34	5060.0 41	4750.0 22	3910.0 25	3920.0 18	3070.0 29	1840.0
1965	16200.0 36	9400.0 42	6700.0 50	4400.0 57	3510.0 56	2750.0 59	2510.0 58	2190.0 60	1850.0 60	1160.0
1966	10000.0 53	7440.0 56	5460.0 58	4480.0 56	4060.0 53	3260.0 54	2790.0 55	2620.0 54	2270.0 55	1580.0
1967	8720.0 58	7580.0 54	7100.0 47	5930.0 46	5230.0 38	3920.0 44	3580.0 35	3210.0 38	2640.0 46	1940.0

1-4530.00 LEHIGH RIVER AT BETHLEHEM, PA.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	20848.164	14329.664	10224.164	7609.332	5835.164	4520.832	3890.333	3558.667	3146.833	2231.000
VARIANCE	1.629x10 ⁸	4.393x10 ⁷	1.421x10 ⁷	6.467x10 ⁶	2.906x10 ⁶	1.224x10 ⁶	8.249x10 ⁵	6.570x10 ⁵	5.380x10 ⁵	2.990x10 ⁵
STD DEV	12764.750	6627.918	3769.019	2543.031	1704.729	1106.446	908.216	810.539	733.505	546.587
SKEWNESS	2.077	1.460	1.132	1.806	1.525	.932	.533	.535	.740	.737
SE OF SKEW	.309	.309	.309	.309	.309	.309	.309	.309	.309	.309
SER CORR	-.074	-.029	-.050	-.082	-.126	-.081	.093	.142	.236	.223
C OF VAR	.612	.463	.369	.334	.292	.245	.233	.228	.233	.245

LOGS

MEAN OF	4.258	4.117	3.983	3.861	3.750	3.643	3.579	3.540	3.487	3.336
VAR OF	.050	.033	.023	.018	.014	.011	.010	.010	.010	.011
STD DEV OF	.224	.182	.153	.133	.118	.103	.101	.098	.099	.106
SKEW OF	.511	.402	.167	.323	.297	.107	.027	.039	.114	-.122
SE OF SKEW OF	.309	.309	.309	.309	.309	.309	.309	.309	.309	.309
SER CORR OF	-.103	-.043	-.057	-.070	-.088	-.066	.076	.119	.199	.223
C OF VAR OF	.053	.044	.038	.034	.032	.028	.028	.028	.028	.032

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	6628	5598	4427	3835	3168	2574	2219	2065	1839	1203
1.05	8401	6917	5481	4521	3680	2993	2592	2399	2123	1439
1.11	9671	7818	6164	4964	4004	3248	2817	2600	2296	1581
1.25	11632	9150	7130	5590	4456	3593	3116	2868	2528	1768
2.00	17323	12730	9518	7137	5545	4376	3784	3465	3053	2178
5.00	27450	18427	12881	9327	7032	5363	4603	4195	3710	2663
10.00	35829	22725	15174	10830	8025	5979	5102	4639	4118	2951
25.00	48570	28781	18148	12794	9293	6726	5697	5168	4611	3285
50.00	59788	33764	20421	14308	10251	7264	6119	5544	4966	3517
100.00	72631	39166	22743	15865	11223	7791	6526	5906	5312	3736

STATISTICS OF MONTHLY MEANS, 1903-04; 1910-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1903-04; 1910-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	1418.	1150.	1.886	.8109	5.292	.275d	3.041	.3030	.4151	.0996	7.798	.524d
NOV	1970.	1329.	.9269	.6748	7.354	.398	3.190	.3174	-.2045	.0995	8.179	.604
DEC	2351.	1417.	.9665	.6026	8.777	.457	3.293	.2691	-.1591	.0817	8.445	.588
JAN	2408.	1195.	.8405	.4961	8.989	.391	3.329	.2205	-.1761	.0662	8.536	.449
FEB	2490.	1205.	1.140	.4841	9.293	.306	3.349	.2063	-.1031	.0616	8.588	.228
MAR	3992.	1645.	2.121	.4120	14.90	-.122	3.571	.1609	.2495	.0451	9.157	-.067
APR	3771.	1320.	.4989	.3500	14.08	.220	3.549	.1600	-.3842	.0451	9.101	.214
MAY	2616.	1140.	1.227	.4358	9.765	.216	3.380	.1840	-.0158	.0544	8.667	.235
JUN	1757.	772.9	1.105	.4400	6.556	.434	3.206	.1823	.1817	.0568	8.223	.405
JUL	1534.	1272.	2.251	.8288	5.727	.543	3.088	.2723	.8416	.0882	7.919	.637
AUG	1286.	1024.	2.730	.7960	4.801	.235	3.020	.2628	.7380	.0870	7.744	.486
SEP	1197.	1032.	2.930	.8617	4.468	.564	2.980	.2704	.8888	.0907	7.643	.669

d Serial correlation coefficient computed from non-continuous arrays of monthly mean discharges.

1-4552.00 POHATCONG CREEK AT NEW VILLAGE, N. J.

Location.--Lat 40°42'57", long 75°04'20", 20 ft upstream from Edison Road Bridge.

Drainage area.--33.4 sq mi.

Remarks.--Occasional regulation; probably not significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1960													5	8	6	11	21	29	32	20	26	53	63	28	27	16	5	8	1	3		2	1	1	13036.6
1961															4	10	12	31	48	93	33	16	19	20	23	28	14	6	3	3	1	1		15157.9	
1962													5	31	27	35	34	23	47	33	30	27	26	13	11	4	4	5	2	2	1	4	1	9690.9	
1963										2	3	13	19	27	30	19	18	16	30	38	29	19	14	20	22	14	13	6	5	4		1	2	1	11646.3
1964							12	4	5	17	16	21	20	21	22	19	16	19	15	28	31	23	18	15	11	14	7	5	2	2	3				8440.0
1965		3	2	11	4	11	19	27	15	16	24	32	35	23	19	18	32	21	22	15	3	4	2	1	2		1	2							2948.0
1966		2	3			9	36	16	19	28	23	25	16	19	23	23	17	18	41	16	8	6	5	5	1	1		2		1	1		1		3949.8
1967					1		1	4	4	3	12	9	9	21	13	14	29	20	25	29	37	31	34	21	20	7	14	6	1						9334.8

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2922	100.0	9	2.10	66	2714	92.9	18	14.0	243	1593	54.5	27	94	48	105	3	28	120	17	57	1
1	C.40	5	2922	100.0	10	2.60	78	2648	90.6	19	18.0	227	1350	46.2	28	140	16	40	1	29	140	16	40	1
2	C.50	5	2917	99.8	11	3.30	100	2570	88.0	20	22.0	257	1123	38.4	30	180	8	24						
3	C.60	11	2912	99.7	12	4.00	109	2470	84.5	21	27.0	196	866	29.6	31	220	4	16						
4	C.80	5	2901	99.3	13	5.00	150	2361	80.8	22	33.0	178	670	22.9	32	270	7	12						
5	C.90	20	2896	99.1	14	6.10	140	2211	75.7	23	41.0	122	492	16.8	33	330	4	5						
6	1.10	68	2876	98.4	15	7.60	143	2071	70.9	24	50.0	114	370	12.7	34	410	1	1						
7	1.40	51	2808	96.1	16	9.30	177	1928	66.0	25	62.0	79	256	8.8										
8	1.70	43	2757	94.4	17	12.00	158	1751	59.9	26	76.0	72	177	6.1										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

POHATCONG CREEK AT NEW VILLAGE, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1960	8.8 7	9.0 7	10.6 7	14.4 7	16.0 7	21.4 7	22.4 7	25.0 7	28.4 7	41.8
1961	6.2 6	6.3 6	7.3 6	8.1 6	8.7 6	10.1 6	12.0 6	12.9 6	17.5 6	35.7
1962	4.3 5	4.9 5	5.1 5	5.3 5	7.3 5	9.8 5	11.1 5	11.3 5	13.6 5	35.6
1963	2.2 4	2.5 4	2.6 4	2.7 4	3.0 4	4.2 4	5.2 4	5.7 4	7.7 4	19.8
1964	1.1 3	1.1 3	1.1 3	1.2 2	1.7 2	2.8 3	3.1 3	3.7 3	5.5 3	15.5
1965	0.4 1	0.4 1	0.5 1	0.8 1	1.2 1	1.4 1	1.7 1	1.9 1	2.4 1	9.5
1966	0.4 2	0.4 2	0.7 2	1.3 3	1.9 3	2.3 2	2.8 2	3.3 2	4.8 2	15.7

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

POHATCONG CREEK AT NEW VILLAGE, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1960	387.0 2	231.0 4	144.0 4	105.0 4	78.2 4	59.9 4	54.3 4	51.4 4	47.3 3	35.6
1961	325.0 4	232.0 3	164.0 3	125.0 2	113.0 2	99.3 1	89.6 1	76.3 1	60.1 1	41.5
1962	350.0 3	302.0 2	208.0 2	115.0 3	97.2 3	76.3 3	59.7 3	52.0 3	41.4 4	26.6
1963	527.0 1	441.0 1	260.0 1	166.0 1	117.0 1	93.8 2	81.3 2	68.2 2	53.5 2	31.9
1964	209.0 6	152.0 6	130.0 5	86.3 5	67.0 5	50.4 5	44.2 6	48.4 5	38.5 5	23.1
1965	150.0 7	97.3 8	58.3 8	34.0 8	26.2 8	19.7 8	19.1 8	16.0 8	13.5 8	8.1
1966	285.0 5	202.0 5	118.0 6	64.7 7	51.6 7	33.2 7	27.9 7	24.4 7	18.3 7	10.8
1967	126.0 8	113.0 7	103.0 7	81.6 6	62.0 6	49.9 6	50.9 5	45.6 6	38.1 6	25.6

STATISTICS OF MONTHLY MEANS, 1960-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1960-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	8.785	7.221	1.867	.8220	2.871	.962	.8399	.3080	.7251	.3667	5.759	.897
NOV	14.60	9.000	.4322	.6163	4.772	.793	1.074	.3233	-.6755	.3010	7.364	.732
DEC	17.65	9.855	.9158	.5582	5.769	.543	1.183	.2646	-.5710	.2238	8.108	.800
JAN	33.33	20.56	-.0583	.6169	10.89	.478	1.406	.3908	-1.026	.2780	9.638	.723
FEB	44.30	18.78	.1072	.4240	14.48	.347	1.609	.1975	-.2022	.1228	11.03	.407
MAR	55.47	33.84	.8386	.6101	18.12	.783	1.670	.2794	-.1846	.1673	11.45	.743
APR	46.12	25.71	.2247	.5575	15.07	.287	1.592	.2815	-.4598	.1768	10.92	.492
MAY	31.86	18.43	.3835	.5785	10.41	.661	1.421	.3128	-1.003	.2201	9.745	.717
JUN	15.75	8.465	-.0712	.5373	5.148	.880	1.115	.3251	-1.351	.2915	7.645	.956
JUL	13.84	11.17	.7308	.8067	4.524	.927	.9809	.4353	-.4410	.4438	6.726	.933
AUG	12.59	10.22	.2715	.8114	4.115	.860	.9069	.4910	-.4657	.5414	6.218	.931
SEP	11.73	17.78	2.616	1.516	3.833	.481	.7879	.4839	.9847	.6142	5.402	.738

1-4560.00 MUSCONETCONG RIVER NEAR HACKETTSTOWN, N. J.

Location.--Lat 40°53'10", long 74°48'00", 75 ft upstream from Saxton Falls Dam.

Drainage area.--70.0 sq mi.

Remarks.--Regulation reduces flood peaks and is also very significant at low and medium flows. Diversion to canal during navigation seasons prior to March 1924 not included in records.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1922		3	1	7			4	14	26	21	34	37	27	27	18	8	20	17	30	13	15	16	17	4	2	3				1						28192.0	
1923							1	11	26	45	49	35	61	32	15	7	2	28	24	15	7			2	2			3								23501.0	
1924							1		5	14	22	33	32	52	35	16	47	15	7	22	12	13	11	5	8	1										40736.0	
1925							3	24	20	38	36	20	36	37	31	17	17	1	11	8	3	17	16	18	6	2				1	1	2				31024.0	
1926						3	5	22	6	14	12	15	21	16	21	49	49	20	32	19	13	23	13	9	3											31923.0	
1927							2	8		5	7	9	35	29	42	74	44	19	32	29	16	11	2	1			2									48076.0	
1928												1	6	12	40	13	28	44	25	37	38	25	29	17	27	15			7	1	1				83119.0		
1929							1	12	18	14	7	9	51	52	54	16	15	22	14	10	19	15	9	16	7	4									37574.0		
1930							6	19	24	23	29	35	50	25	33	44	35	6	24	9	3															31387.0	
1931											3	14	27	41	54	43	28	34	19	21	24	14	21	7	5	3	2	2		3						33115.0	
1932							5	17	15	16	23	41	27	47	34	26	20	31	24	17	2	2	7	8	3	1										24753.0	
1933							2	2	8	26	14	7	7	6	9	18	27	20	36	32	17	34	39	20	19	13	5	2	2							55135.0	
1934							7	10	10	8	8	12	16	34	45	30	25	29	44	27	41	12	4	3												37507.0	
1935							1	14	23	16	9	22	34	14	41	33	33	43	22	15	10	26	4	1	1	1				1		1				41447.0	
1936						1	4	4	6	12	9	11	16	36	24	12	13	14	27	26	26	21	21	28	13	11	7	3	7	4	4	2	2	2		55918.0	
1937							9	8	13	29	15	30	46	21	17	24	51	22	33	32	7	4	1	3												41896.0	
1938							1	10	11	35	27	28	42	45	48	24	36	23	9	6	5	3	5	2	2	1	2									53760.0	
1939							2	21	26	22	15	22	9	7	14	25	46	23	38	41	24	18	7	3	2											53002.0	
1940							32	32	19	56	44	31	15	19	16	25	15	12	16	7	7	1														43437.0	
1941							2	14	23	41	23	46	32	14	26	19	32	40	34	11	7	1														35948.0	
1942											7	26	35	45	36	42	41	39	33	17	18	10	4	5	4	2	1									17665.0	
1943							7	23	8	25	8	8	14	17	28	27	24	19	65	46	20	16	6	1	1	2										54527.0	
1944							1	8	28	20	8	27	24	32	34	28	17	29	26	13	27	23	14	3	2	2										36897.7	
1945											2	5	40	22	14	24	23	31	58	25	44	26	22	15	7	3	4										54621.0
1946						1				1	5	10	7	27	30	23	40	32	23	23	36	11	26	20	20	23	5	2								45972.3	
1947											11	14	18	71	37	28	30	14	25	23	20	18	18	10	16	7	3	2								41514.0	
1948							5	1	4	2	6	15	22	11	13	19	31	55	39	19	40	18	12	7	5	2										53292.8	
1949							5	18	43	12	16	33	32	37	23	15	29	38	15	18	9	10	3	3	1	3				1		1				36567.3	
1950											4	40	49	33	31	34	34	21	21	30	15	24	20	6	3											33665.0	
1951																27	28	32	28	17	15	16	39	13	39	30	45	13	7	3	6	3	3	1	60290.0		
1952																11	15	11	23	18	18	17	22	18	51	55	34	33	18	10	7	3	2	74832.0			
1953							5	10	14	15	16	43	5	18	23	17	10	10	20	14	31	45	25	23	10	5	2	3	1						54111.0		
1954							4	12	8	16	19	11	5	21	29	21	9	21	43	26	15	26	40	15	9	11	3	1							27024.3		
1955							3	5	15	5	5	15	21	5	26	18	19	28	40	27	26	29	30	15	8	17	1	1	1	1		1	1	1	1	46359.0	
1956											1	9	26	24	30	36	18	27	21	46	40	11	8	10	7	29	17	2			1	1	1	1	48308.0		
1957							1	5	20	17	49	11	10	2	7	2	8	7	20	9	11	18	48	47	14	27	18	6	2	1	4	1			34528.9		
1958											1	17	20	16	28	14	38	28	14	10	8	7	10	20	31	28	21	20	40	4	5	2	3		53277.0		
1959											3	10	12	9	28	35	33	31	43	45	62	23	17	9	3	1	1								36458.0		
1960							6	3	15	8	8	4	13	33	20	21	23	17	37	22	20	29	35	31	13	4	1	2	1							57845.0	
1961											7	18	10	36	50	32	25	10	23	26	14	21	22	21	44	4			2						49840.0		
1962							2	5	14	36	28	40	34	18	11	4	18	34	11	21	46	7	12	8	9	7	2									28930.0	
1963											3	10	18	32	36	25	17	33	24	21	23	20	18	10	18	15	16	10	7	8	1					27446.1	
1964							2	8	7	12	11	10	23	29	20	27	8	14	23	18	13	12	22	33	8	21	18	18	6	3						32404.7	
1965							2	2	19	36	34	35	24	15	22	11	31	54	25	20	11	9	8	2	2	1	2									16095.5	
1966							5	42	27	27	36	26	49	32	18	26	31	13	8	9	4	2	5	4	1											15906.0	
1967							3	4	4	15	16	22	30	42	23	22	28	23	25	43	22	14	18	6	2			1			2					48914.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16801	100.0	9	21.00	506	15841	94.3	18	100.0	1277	7148	42.5	27	500	72	154	.9
1	5.30	1	16801	100.0	10	25.00	657	15335	91.3	19	120.0	1406	5871	34.9	28	590	38	82	.4
2	6.30	10	16800	100.0	11	30.00	812	14678	87.4	20	150.0	747	4465	26.6	29	700	21	44	.2
3	7.50	35	16790	99.9	12	36.00	946	13866	82.5	21	170.0	1160	3718	22.1	30	840	11	23	.1
4	9.00	50	16755	99.7	13	43.00	1165	12920	76.9	22	210.0	921	2558	15.2	31	1000	7	12	.0
5	11.00	105	16705	99.4	14	51.00	1292	11755	70.0	23	250.0	617	1637	9.7	32	1200	3	5	.0
6	13.00	160	16600	98.8	15	61.00	1263	10463	62.3	24	290.0	517	1020	6.1	33	1400	1	2	.0
7	15.00	259	16440	97.9	16	73.00	1108	9200	54.8	25	350.0	225	503	3.0	34	1700	1	1	.0
8	18.00	340	16181	96.3	17	86.00	944	8092	48.2	26	420.0	124	278	1.7					

1-4560.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MUSCONETCONG RIVER NEAR HACKETTSTOWN, N. J.

YEAR	1	2	3	7	14	30	60	90	120	183	ANNUAL
1922	7.0	2	11.0	7	21.4	25	37.8	27	40.2	23	82.0
1923	14.0	16	18.3	24	18.6	18	21.6	20	26.0	20	63.8
1924	13.0	15	14.3	14	15.4	12	16.1	11	17.2	10	129.0
1925	16.0	19	16.0	16	16.3	13	19.1	14	27.8	23	88.0
1926	12.0	12	12.0	8	13.3	10	15.4	10	18.5	11	104.0
1927	26.0	36	28.3	36	31.0	36	33.4	37	57.8	43	182.0
1928	44.0	45	44.3	45	46.4	44	49.4	44	52.6	41	150.0
1929	17.0	23	17.7	21	18.3	17	20.4	19	24.2	17	108.0
1930	22.0	31	24.0	32	26.9	34	27.9	31	31.3	28	62.9
1931	19.0	26	20.0	26	23.6	29	31.4	35	39.4	34	95.3
1932	13.0	13	14.0	12	15.0	11	16.8	12	20.0	12	110.0
1933	13.0	14	14.3	13	19.0	21	20.0	16	21.7	14	125.0
1934	15.0	17	15.3	15	17.9	15	19.9	15	24.8	19	125.0
1935	20.0	27	20.7	27	21.7	25	23.4	23	27.2	22	148.0
1936	9.0	5	10.3	6	11.7	5	14.6	8	16.6	8	112.0
1937	21.0	28	21.0	28	22.0	27	25.4	26	31.5	29	115.0
1938	35.0	42	36.3	42	40.0	43	40.9	41	51.0	39	173.0
1939	23.0	32	24.3	33	26.4	33	27.6	29	31.1	27	95.5
1940	30.0	39	31.3	40	34.7	39	35.9	39	39.5	35	144.0
1941	23.0	33	23.7	31	24.4	30	29.1	33	33.4	30	77.6
1942	30.0	40	30.7	39	35.4	40	38.2	40	52.4	40	161.0
1943	21.0	29	21.0	29	21.3	23	25.6	27	28.2	25	100.0
1944	16.5	20	17.8	22	20.1	22	20.1	17	22.4	15	105.0
1945	30.0	41	36.0	41	46.9	45	55.0	45	68.3	45	170.0
1946	9.9	8	16.8	18	22.5	28	28.5	32	36.5	33	83.9
1947	28.0	38	28.7	38	31.6	38	34.6	38	43.7	37	145.0
1948	17.5	24	17.5	20	18.3	16	23.0	22	50.4	38	141.0
1949	18.3	25	19.4	25	21.9	26	22.5	21	24.6	18	75.0
1950	27.0	37	28.3	37	31.0	37	32.6	36	42.8	36	152.0
1951	36.0	43	37.0	43	39.0	42	46.9	43	57.0	42	178.0
1952	36.0	44	37.0	44	38.7	41	43.1	42	59.7	44	193.0
1953	17.0	21	17.0	19	17.6	14	18.8	13	21.1	13	88.1
1954	8.6	4	8.6	3	9.3	3	9.6	3	11.3	2	95.6
1955	12.0	9	12.0	9	12.9	8	14.2	7	15.9	6	153.0
1956	23.0	34	26.0	35	27.6	35	31.1	34	36.4	32	108.0
1957	5.3	1	6.0	1	7.1	1	7.2	1	8.5	1	111.0
1958	17.0	22	18.3	23	18.7	19	20.1	18	22.6	16	125.0
1959	21.0	30	22.3	30	26.0	32	27.9	30	34.9	31	133.0
1960	16.0	18	16.7	17	19.0	20	23.6	24	26.3	21	143.0
1961	23.0	35	24.3	34	24.7	31	25.8	28	28.0	24	112.0
1962	12.0	10	12.3	10	12.7	6	14.1	6	16.7	9	84.2
1963	9.1	6	9.7	4	13.0	9	15.0	9	16.1	7	72.4
1964	7.4	3	7.8	2	8.5	2	8.7	2	11.9	3	61.9
1965	9.3	7	10.2	5	11.1	4	11.7	4	12.9	4	41.9
1966	12.0	11	12.3	11	12.7	7	13.6	5	13.9	5	87.8
MEAN	18.998		20.240		22.480		24.989		30.758		115.797
VARIANCE	78.075		80.546		96.251		118.852		217.829		1305.088
STD DEV	8.836		8.975		9.811		10.902		14.759		36.126
SKEWNESS	.777		.739		.790		.788		.741		.222
SE OF SKEW	.354		.354		.354		.354		.354		.354
SER CORR	.295		.290		.270		.304		.302		.155
C OF VAR	.465		.443		.436		.436		.480		.312

LOGS

MEAN OF	1.231	1.264	1.311	1.356	1.438	1.528	1.592	1.663	1.788	2.041
VAR OF	.044	.039	.037	.039	.046	.049	.055	.056	.050	.021
STD DEV OF	.210	.198	.193	.198	.215	.221	.235	.238	.224	.145
SKEW OF	-.266	-.228	-.203	-.361	-.198	-.262	-.201	-.292	-.315	-.537
SE OF SKEW OF	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR OF	.287	.313	.328	.357	.360	.265	.272	.250	.265	.228
C OF VAR OF	.171	.157	.148	.146	.150	.145	.147	.143	.126	.071

1-4560.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MUSCONETCONG RIVER NEAR HACKETTSTOWN, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1922	595.0 18	400.0 33	271.0 37	217.0 40	191.0 39	175.0 35	142.0 39	124.0 40	104.0 42	77.2 40
1923	499.0 28	463.0 26	334.0 32	239.0 37	183.0 41	137.0 43	124.0 44	109.0 44	93.9 44	64.4 44
1924	537.0 24	488.0 23	446.0 18	379.0 13	275.0 22	271.0 10	216.0 19	181.0 22	153.0 23	111.0 24
1925	990.0 7	912.0 5	648.0 5	426.0 9	341.0 8	263.0 13	196.0 23	165.0 26	121.0 39	85.0 38
1926	348.0 39	310.0 38	267.0 38	249.0 36	209.0 37	170.0 37	144.0 36	134.0 36	125.0 35	87.5 36
1927	490.0 30	421.0 31	363.0 29	314.0 29	274.0 23	199.0 25	161.0 34	151.0 34	151.0 24	132.0 16
1928	840.0 10	763.0 9	654.0 4	512.0 3	496.0 2	431.0 1	343.0 1	289.0 1	256.0 2	227.0 1
1929	490.0 31	450.0 27	407.0 23	368.0 16	324.0 9	241.0 19	225.0 15	192.0 18	159.0 21	103.0 25
1930	271.0 46	252.0 45	223.0 42	192.0 43	173.0 42	143.0 42	137.0 40	129.0 39	115.0 41	86.0 37
1931	675.0 16	597.0 16	523.0 13	369.0 14	223.0 32	196.0 27	179.0 27	164.0 27	144.0 31	90.7 34
1932	360.0 36	317.0 37	309.0 36	275.0 34	213.0 35	159.0 38	132.0 41	118.0 43	96.5 43	67.6 43
1933	692.0 15	649.0 13	516.0 14	362.0 18	316.0 10	261.0 15	223.0 17	193.0 17	194.0 11	151.0 6
1934	340.0 40	306.0 39	221.0 43	201.0 41	187.0 40	176.0 33	160.0 35	142.0 35	131.0 32	103.0 26
1935	1140.0 4	807.0 6	563.0 11	362.0 19	258.0 26	175.0 34	169.0 30	158.0 30	147.0 29	114.0 23
1936	1370.0 2	1160.0 2	941.0 2	831.0 1	634.0 1	416.0 2	313.0 2	289.0 2	255.0 3	153.0 5
1937	494.0 29	466.0 25	384.0 25	279.0 33	216.0 34	193.0 29	181.0 26	172.0 25	160.0 19	115.0 21
1938	1160.0 3	938.0 4	647.0 6	452.0 7	300.0 16	236.0 21	213.0 20	189.0 19	160.0 20	147.0 17
1939	581.0 19	533.0 17	428.0 20	332.0 23	301.0 15	264.0 11	256.0 8	228.0 9	215.0 7	145.0 13
1940	537.0 25	469.0 24	373.0 27	353.0 20	286.0 18	262.0 14	253.0 9	213.0 13	165.0 17	119.0 20
1941	294.0 42	284.0 41	256.0 39	233.0 38	212.0 36	194.0 28	173.0 28	158.0 31	149.0 28	98.5 31
1942	500.0 27	423.0 30	345.0 31	318.0 28	207.0 38	158.0 39	143.0 37	133.0 37	123.0 37	103.0 27
1943	626.0 17	521.0 19	418.0 22	344.0 21	263.0 25	257.0 16	240.0 13	241.0 7	212.0 8	149.0 8
1944	452.0 33	431.0 29	365.0 28	301.0 30	264.0 24	239.0 20	209.0 21	184.0 20	150.0 25	101.0 28
1945	558.0 22	494.0 22	470.0 15	366.0 17	281.0 20	230.0 23	217.0 18	210.0 14	198.0 10	150.0 7
1946	474.0 32	405.0 32	355.0 30	326.0 24	286.0 19	272.0 9	225.0 16	200.0 15	166.0 16	126.0 19
1947	506.0 26	450.0 28	393.0 24	321.0 26	311.0 12	254.0 17	243.0 12	218.0 11	176.0 14	114.0 22
1948	562.0 21	526.0 18	427.0 21	323.0 25	279.0 21	264.0 12	248.0 10	227.0 10	193.0 12	146.0 11
1949	1010.0 5	798.0 7	577.0 9	450.0 8	293.0 17	221.0 24	187.0 24	175.0 24	150.0 26	100.0 29
1950	325.0 41	276.0 42	251.0 40	228.0 39	220.0 33	174.0 36	167.0 31	154.0 32	135.0 30	92.2 33
1951	848.0 9	686.0 10	597.0 8	462.0 6	394.0 5	297.0 7	287.0 5	267.0 5	246.0 6	165.0 3
1952	788.0 12	666.0 12	561.0 12	414.0 11	360.0 7	303.0 6	300.0 6	282.0 4	272.0 1	204.0 2
1953	712.0 14	599.0 15	456.0 17	368.0 15	316.0 11	304.0 5	285.0 6	258.0 6	247.0 5	148.0 9
1954	293.0 43	257.0 43	229.0 41	201.0 42	169.0 43	136.0 44	143.0 38	132.0 38	116.0 40	74.0 42
1955	1760.0 1	1560.0 1	1040.0 1	650.0 2	411.0 4	288.0 8	198.0 22	162.0 28	131.0 33	127.0 18
1956	1010.0 6	940.0 3	675.0 3	499.0 4	421.0 3	363.0 3	273.0 7	217.0 12	178.0 13	132.0 17
1957	540.0 23	496.0 20	444.0 19	343.0 22	255.0 27	187.0 32	164.0 32	161.0 29	158.0 22	94.6 32
1958	730.0 13	677.0 11	612.0 7	494.0 5	387.0 6	329.0 4	292.0 4	286.0 3	250.0 4	146.0 12
1959	351.0 37	288.0 40	217.0 44	186.0 44	166.0 44	147.0 41	127.0 43	123.0 41	124.0 36	99.9 30
1960	819.0 11	641.0 14	467.0 16	392.0 12	310.0 13	249.0 18	245.0 11	229.0 8	201.0 9	158.0 4
1961	575.0 20	495.0 21	377.0 26	318.0 27	303.0 14	235.0 22	234.0 14	197.0 16	160.0 18	137.0 14
1962	406.0 34	351.0 35	327.0 34	266.0 35	234.0 30	198.0 26	161.0 33	151.0 33	130.0 34	79.3 39
1963	351.0 38	344.0 36	316.0 35	291.0 31	228.0 31	153.0 40	129.0 42	122.0 42	122.0 38	75.2 41
1964	392.0 35	382.0 34	332.0 33	286.0 32	240.0 29	189.0 31	171.0 29	178.0 23	149.0 27	88.5 35
1965	278.0 44	255.0 44	208.0 45	154.0 46	116.0 46	95.3 46	85.2 46	77.5 46	68.6 45	44.1 45
1966	271.0 45	231.0 46	208.0 46	165.0 45	137.0 45	102.0 45	90.9 45	80.1 45	64.7 46	43.6 46
1967	850.0 8	771.0 8	574.0 10	425.0 10	259.0 28	192.0 30	183.0 25	182.0 21	167.0 15	134.0 15
MEAN	623.696	542.348	435.109	344.261	276.478	226.050	199.720	181.404	160.254	115.397
VARIANCE	98012.500	69368.500	32646.020	15842.742	8895.293	5341.648	3620.233	2886.305	2445.646	1412.536
STD DEV	313.069	263.379	180.682	125.868	94.315	73.087	60.168	53.724	49.453	37.584
SKEWNESS	1.522	1.664	1.269	1.476	1.419	.744	.325	.350	.520	.558
SE OF SKEW	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR	.002	.003	-.026	-.071	.024	.011	.119	.125	.207	.223
C OF VAR	.502	.486	.415	.366	.341	.323	.301	.296	.309	.326

LOGS

MEAN OF	2.749	2.692	2.605	2.511	2.419	2.332	2.280	2.239	2.184	2.038
VAR OF	.039	.036	.029	.023	.020	.020	.019	.018	.019	.022
STD DEV OF	.198	.190	.171	.150	.140	.142	.137	.135	.139	.149
SKEW OF	.351	.359	.174	.077	.066	-.224	-.391	-.442	-.410	-.559
SE OF SKEW OF	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR OF	-.063	-.063	-.079	-.067	.090	.096	.182	.182	.256	.294
C OF VAR OF	.072	.071	.066	.060	.058	.061	.060	.060	.064	.073

STATISTICS OF MONTHLY MEANS, 1922-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1922-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	86.76	74.55	2.514	.8592	6.258	.622	1.829	.2977	.4633	.1628	7.813	.715
NOV	125.3	90.91	1.461	.7254	9.040	.582	1.988	.3198	-.0498	.1608	8.494	.594
DEC	129.2	81.61	.9747	.6317	9.319	.567	2.026	.2795	.0218	.1379	8.656	.679
JAN	130.1	68.51	.6472	.5265	9.386	.667	2.050	.2501	-.4064	.1220	8.756	.697
FEB	134.1	59.88	1.008	.4466	9.671	.423	2.088	.1862	.1193	.0892	8.919	.408
MAR	174.2	72.14	2.413	.4142	12.56	.246	2.211	.1622	.0327	.0734	9.444	.269
APR	174.8	82.03	.5365	.4692	12.61	.378	2.193	.2157	-.2201	.0984	9.367	.336
MAY	129.5	69.12	.7904	.5337	9.342	.446	2.051	.2383	-.0772	.1162	8.760	.506
JUN	78.59	52.76	1.112	.6713	5.669	.554	1.806	.2803	.1961	.1552	7.716	.610
JUL	67.07	65.45	2.078	.9759	4.838	.559	1.679	.3460	.4991	.2061	7.173	.735
AUG	72.48	78.40	2.272	1.082	5.228	.368	1.686	.3735	.5567	.2215	7.202	.549
SEP	84.23	65.46	1.440	.7772	6.075	.567	1.802	.3408	-.1476	.1891	7.699	.745

1-4570.00 MUSCONETCONG RIVER NEAR BLOOMSBURY, N. J.

Location.--Lat 40°40'20", long 75°03'40", 1.5 miles upstream from Bloomsbury.

Drainage area.--143 sq mi.

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 DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1904								7	14	30	25	18	20	32	19	22	39	22	23	27	22	14	6	6	4		3	1	1	1	4	1	1	2	1	1	10368.0
1905								1	13	36	24	54	20	46	30	17	22	15	12	15	15	8	12	9	2	3		4	4	2			1				71315.0
1906								7	9	22	48	19	37	37	33	43	19	14	14	27	9	9	5	3	6	2	1	1								70885.0	
1922								9	13	19	23	32	52	44	28	18	21	13	22	20	16	18	9	2	3	1	1	1								72213.0	
1923								1	3	6	35	53	54	49	37	23	15	14	19	17	11	6	4	9	5	3	1									53263.0	
1924								1	1	6	18	19	17	23	33	30	23	57	24	30	15	20	9	12	9	9	6	2	1	1						78103.0	
1925										4	38	72	45	24	24	29	21	23	12	8	8	10	10	20	8	3	2	1		1	1		1			63072.0	
1926								1	5	15	14	13	25	35	34	39	29	31	34	20	29	13	4	10	7	2		2	1	2						67757.0	
1927										4	9	4	23	34	34	55	51	33	30	26	20	14	20	3	1	2	2									88967.0	
1928												3	1	7	13	29	39	41	45	34	36	25	20	31	18	10	10	4								155726.0	
1929										5	18	22	14	14	35	59	40	34	26	15	12	12	14	17	14	5	4	2	2			1				76691.0	
1930								1		10	14	22	14	17	34	38	35	30	35	39	25	26	11	8	3	1	2									60850.0	
1931										17	31	34	37	35	38	43	16	24	25	13	19	9	8	4	4	2	2	2	1	1						59288.0	
1932								1	5	32	25	56	52	38	31	32	26	17	17	8	4	4	5	6	4	2	1									41786.0	
1933										5	6	22	21	17	15	16	21	32	31	21	29	39	20	16	17	12	9	10	3	2	1					100656.0	
1934										5	14	21	14	14	38	50	28	44	27	28	28	31	10	5	4	1		1	1	1						71551.0	
1935										6	25	25	27	19	27	32	38	41	28	32	19	24	9	5	2	1	2	1	1		1	1				77844.0	
1936										19	30	31	28	12	11	10	24	36	22	30	32	15	10	8	8	9	8	7	3	3	3	5		2		108915.0	
1937										1	7	13	30	47	19	24	18	21	29	33	46	21	19	20	6	3	6	2								81399.0	
1938												1	9	30	31	24	39	57	33	38	31	21	4	10	5	8	3	5		4		2			98813.0		
1939										4	25	30	11	17	13	11	4	12	39	31	22	32	14	18	38	20	16	6	1		1				105655.0		
1940										4	18	24	48	29	38	21	18	30	27	19	14	11	12	15	14	9	8	4	1	1				1		80249.0	
1941										2	11	30	27	21	33	36	20	15	24	21	33	37	29	11	7	6	1	1								67586.0	
1942										6	17	28	23	31	24	42	38	42	25	20	22	15	7	4	5	3	5	5	1	1		1			71372.0		
1943										2	23	22	15	10	8	10	29	30	28	34	49	28	24	24	13	8	2	4	2						105655.0		
1944										3	22	27	23	18	18	33	25	27	32	24	13	16	23	18	21	10	4	4	2	1	1	1			76414.0		
1945										2	17	18	9	6	4	21	34	48	30	31	37	34	25	15	11	13	3	2	2	2				1		109034.0	
1946										2	14	13	25	40	30	58	23	20	29	34	24	17	19	11	3	3									92003.0		
1947										8	12	35	41	50	41	15	24	21	21	27	24	10	10	12	8	6									74781.0		
1948										2	16	22	9	23	22	63	30	21	45	17	37	21	16	10	4	6	1			1					98497.0		
1949										2	12	25	30	41	35	44	12	3	9	28	21	37	32	17	2	5	1	2	1	1	2		2	1	72346.0		
1950										6	31	52	34	19	39	27	19	23	23	34	17	20	14	5	1	1									59928.0		
1951										4	19	15	13	27	13	13	30	30	25	18	27	34	33	26	10	6	7	7	2	5	1				113503.0		
1952												18	30	19	23	15	14	13	37	41	42	45	27	11	13	11	1	4			2				142944.0		
1953										1	11	24	15	16	11	18	37	26	11	5	18	26	32	45	25	21	8	3	2	2	3				105654.0		
1954										4	19	39	42	33	28	16	20	24	22	26	26	25	18	11	8	3	1								51888.0		
1955								6	11	6	6	5	12	26	28	12	23	18	25	43	25	34	31	22	13	3	5	2	2	1	2		1		1	1	76437.0
1956										2	12	14	16	50	29	27	32	26	30	37	19	16	28	16	6		1	2			1	2			90138.0		
1957										4	21	24	23	9	13	12	6	20	11	13	24	52	38	23	20	18	14	8	3	4		4	1			65850.0	
1958										1	3	13	17	46	28	30	17	19	11	10	9	7	27	30	20	13	17	23	10	6	4	3		1		93726.0	
1959											6	29	24	25	40	30	45	56	54	24	16	6	4	3	2	1									62231.0		
1960											3	9	8	17	16	18	23	36	37	31	35	38	36	25	16	5	6		4	1	2				101694.0		
1961											3	3	15	26	55	40	29	25	13	18	13	18	41	27	22	10	4	1	1			1			91395.0		
1962											12	44	49	33	31	13	22	26	25	31	15	14	10	11	9	8	5	2	1	2	2				56291.0		
1963											3	19	25	33	28	26	19	21	42	22	32	24	12	13	9	10	8	9	8		1		1		53490.0		
1964											15	17	25	32	19	15	23	18	19	23	12	14	31	21	15	14	15	24	10	4					55603.0		
1965											35	40	31	28	22	24	29	32	36	52	14	5	8	2	2	1	2								30145.0		
1966											3	19	41	43	42	25	31	19	22	18	36	21	11	7	10	3	2	6	4	2					33135.0		
1967											2	9	7	5	1	7	12	49	23	26	34	29	21	38	28	18	23	12	13	3		3	1	1	90818.0		

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	17897	100.0	9	84.00	1150	14914	83.3	18	300.0	1066	4020	22.5	27	1100	41	84	0.0
1	27.00	3	17897	100.0	10	97.00	1067	13764	76.9	19	350.0	829	2954	16.5	28	1300	11	43	0.0
2	31.00	79	17894	100.0	11	110.00	1431	12697	70.9	20	400.0	699	2125	11.9	29	1400	18	32	0.0
3	36.00	135	17815	99.5	12	130.00	1284	11266	62.9	21	460.0	546	1426	8.0	30	1700	4	14	0.0
4	41.00	163	17680	98.8	13	150.00	1061	9982	55.8	22	540.0	304	880	4.9	31	1900	3	10	0.0
5	48.00	259	17517	97.9	14	170.00	1465	8921	49.8	23	620.0	222	576	3.2	32	2200	3	7	0.0
6	55.00	431	17258	96.4	15	200.00	1288	7456	41.7	24	710.0	128	354	2.0	33	2600	3	4	0.0
7	63.00	819	16827	94.0	16	230.00	1025	6168	34.5	25	820.0	94	226	1.3	34	3000	1	1	0.0
8	73.00	1094	16008	89.4	17	260.00	1123	5143	28.7	26	950.0	48	132	0.7					

1-4570.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MUSCONETCONG RIVER NEAR BLOOMSBURY, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1904	56.0 22	62.3 24	66.1 24	67.5 21	79.9 27	86.6 27	89.7 22	99.2 22	128.0 24	208.0 25
1905	53.0 19	60.7 22	64.0 23	65.1 19	67.9 17	72.5 16	77.6 16	84.6 16	89.8 13	156.0 8
1906	56.0 20	63.3 25	75.1 33	79.2 33	86.1 34	97.1 33	101.0 30	109.0 28	131.0 27	205.0 22
1922	62.0 29	69.0 31	74.4 32	75.9 29	82.4 28	91.8 31	98.5 28	113.0 29	129.0 25	190.0 16
1923	45.0 10	57.3 17	60.6 17	61.1 14	67.2 15	68.5 11	71.2 13	75.7 12	85.5 9	149.0 7
1924	60.0 27	63.3 26	67.9 26	68.6 24	70.0 20	80.1 22	82.6 17	82.4 15	121.0 20	230.0 32
1925	66.0 33	69.7 32	74.3 31	79.4 34	84.2 31	98.0 34	108.0 31	118.0 32	131.0 26	196.0 18
1926	46.0 11	48.0 9	54.0 11	61.4 17	69.2 19	75.6 17	82.7 19	92.8 18	112.0 19	199.0 19
1927	75.0 40	75.3 40	81.4 39	86.6 39	122.0 43	154.0 45	184.0 45	185.0 45	209.0 42	333.0 46
1928	114.0 46	120.0 47	125.0 47	129.0 46	137.0 46	142.0 43	148.0 43	170.0 43	213.0 43	305.0 42
1929	56.0 21	60.0 21	62.9 22	68.5 23	74.6 22	79.3 21	93.9 26	104.0 25	122.0 21	206.0 23
1930	40.0 8	48.7 10	52.0 9	56.6 11	62.4 11	69.3 13	69.7 10	72.3 8	81.7 7	122.0 3
1931	52.0 16	57.7 18	62.7 20	69.0 25	74.7 23	81.1 23	87.9 23	88.7 17	97.3 15	161.0 9
1932	38.0 7	47.0 8	49.6 7	49.6 7	54.5 7	56.8 6	58.8 6	63.0 6	88.1 11	193.0 17
1933	59.0 25	63.3 27	71.3 28	72.6 27	78.2 26	89.6 29	115.0 36	161.0 41	197.0 39	239.0 34
1934	58.0 23	58.7 19	62.0 18	64.2 18	75.1 25	83.3 24	109.0 32	130.0 35	184.0 38	230.0 33
1935	65.0 31	70.3 34	77.3 37	80.5 35	84.5 32	95.6 32	113.0 35	149.0 38	148.0 33	275.0 41
1936	63.0 30	65.0 28	66.7 25	70.7 26	74.4 21	78.1 18	85.8 20	114.0 30	125.0 23	225.0 30
1937	62.0 28	67.7 29	69.6 27	76.7 30	85.0 33	108.0 36	111.0 33	116.0 31	153.0 34	276.0 41
1938	105.0 45	116.0 45	119.0 45	125.0 44	134.0 44	159.0 47	206.0 47	268.0 48	291.0 46	330.0 44
1939	58.0 24	60.0 20	62.3 19	68.1 22	74.9 24	78.7 20	82.6 18	97.4 21	108.0 17	187.0 15
1940	70.0 37	74.7 39	81.6 40	84.1 38	92.8 39	125.0 42	139.0 41	142.0 36	177.0 37	264.0 38
1941	52.0 17	54.3 14	57.6 16	61.1 15	67.9 18	69.8 14	71.1 11	76.6 13	83.1 8	134.0 5
1942	76.0 41	80.7 41	94.4 42	107.0 43	115.0 42	123.0 41	144.0 42	166.0 42	240.0 46	316.0 43
1943	67.0 34	73.0 37	75.3 34	82.7 36	84.0 30	86.1 26	92.2 24	108.0 26	136.0 31	214.0 27
1944	51.0 14	53.3 13	55.4 13	57.6 12	59.5 9	64.7 9	76.3 15	78.9 14	95.7 14	208.0 24
1945	128.0 48	136.0 48	140.0 48	146.0 48	159.0 48	188.0 48	217.0 48	260.0 47	291.0 47	331.0 45
1946	68.0 35	70.0 33	72.7 29	74.9 28	87.2 36	89.6 30	94.2 27	99.3 23	111.0 18	171.0 12
1947	89.0 43	92.3 43	94.9 43	99.8 42	101.0 40	114.0 37	127.0 38	149.0 37	167.0 36	258.0 36
1948	80.0 42	83.3 42	85.9 41	91.6 41	106.0 41	114.0 38	130.0 39	153.0 39	158.0 35	274.0 40
1949	52.0 18	55.0 15	56.9 15	61.1 16	64.9 14	71.0 15	74.7 14	73.8 10	76.4 6	143.0 6
1950	70.0 38	70.7 35	74.0 30	77.3 31	82.7 29	87.1 28	92.8 25	96.9 20	137.0 30	268.0 39
1951	102.0 44	105.0 44	111.0 44	126.0 45	137.0 45	153.0 44	177.0 44	190.0 46	206.0 40	350.0 47
1952	116.0 47	118.0 46	125.0 46	131.0 47	140.0 47	155.0 46	191.0 46	185.0 44	236.0 45	364.0 48
1953	51.0 15	55.0 16	56.1 14	59.4 13	63.8 12	66.5 10	68.9 8	72.7 9	88.4 12	177.0 14
1954	44.0 9	46.7 7	49.0 8	50.5 8	55.2 8	58.3 7	66.4 7	74.8 11	98.4 16	172.0 13
1955	31.0 2	32.7 3	35.1 3	37.6 5	41.2 5	63.3 8	71.2 12	93.8 19	209.0 41	256.0 35
1956	70.0 39	73.0 38	77.4 38	83.6 37	88.0 37	117.0 40	117.0 37	126.0 34	144.0 32	204.0 20
1957	35.0 6	35.7 6	37.0 6	38.1 6	39.7 3	42.7 3	47.2 3	55.0 5	67.3 4	204.0 21
1958	46.0 12	48.7 11	54.0 12	56.3 10	64.6 13	78.1 19	90.5 23	99.5 24	134.0 29	224.0 29
1959	68.0 36	70.7 36	76.6 35	79.2 32	86.9 35	99.2 35	111.0 34	119.0 33	132.0 28	221.0 28
1960	66.0 32	68.7 30	77.3 36	89.4 40	92.8 38	114.0 39	136.0 40	153.0 40	226.0 44	261.0 37
1961	60.0 26	61.3 23	62.9 21	65.9 20	67.6 16	84.5 25	99.9 29	109.0 27	124.0 22	210.0 24
1962	51.0 13	52.0 12	53.1 10	54.3 9	61.0 10	69.0 12	69.2 9	71.4 7	86.0 10	164.0 10
1963	33.0 5	34.3 5	36.1 5	36.5 3	39.1 2	46.1 4	48.5 4	52.2 3	61.4 2	128.0 4
1964	32.0 4	33.3 4	35.3 4	36.5 4	41.7 6	47.5 5	52.7 5	54.4 4	62.3 3	119.0 2
1965	31.0 3	31.0 2	32.7 2	34.9 2	35.8 1	37.4 1	38.0 1	40.5 1	47.7 1	82.5 1
1966	27.0 1	30.0 1	32.3 1	34.6 1	40.2 4	41.6 2	45.1 2	50.8 2	67.4 5	165.0 11
MEAN	61.562	65.473	69.504	73.589	80.267	90.635	101.331	113.410	137.677	217.656
VARIANCE	507.826	542.072	590.603	677.608	805.054	1131.666	1742.358	2463.041	3502.620	4195.066
STD DEV	22.535	23.282	24.302	26.031	28.373	33.640	41.742	49.629	59.183	64.769
SKEWNESS	1.101	1.112	.968	.905	.859	.899	1.070	1.223	.860	.398
SE OF SKEW	.343	.343	.343	.343	.343	.343	.343	.343	.343	.343
SER CORR	.271	.243	.219	.243	.278	.166	.137	.098	.061	.217
C OF VAR	.366	.356	.350	.354	.353	.371	.412	.438	.430	.298

LOGS

MEAN OF	1.763	1.791	1.817	1.841	1.879	1.929	1.972	2.017	2.101	2.318
VAR OF	.024	.022	.022	.023	.023	.025	.030	.033	.034	.018
STD DEV OF	.153	.150	.150	.152	.153	.159	.173	.182	.185	.135
SKEW OF	.043	-.033	-.102	-.110	-.123	-.059	.050	.077	-.024	-.467
SE OF SKEW OF	.343	.343	.343	.343	.343	.343	.343	.343	.343	.343
SER CORR OF	.378	.379	.354	.371	.383	.280	.260	.257	.208	.276
C OF VAR OF	.087	.084	.082	.083	.081	.082	.088	.090	.088	.058

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	25.751	27.435	28.651	29.812	32.308	35.650	37.723	40.233	46.383	90.772
20.00	32.534	34.891	36.830	38.528	41.880	46.207	49.026	52.744	62.319	119.993
10.00	36.887	39.633	42.009	44.063	47.958	52.986	56.447	61.056	72.898	137.849
5.00	42.983	46.216	49.163	51.721	56.363	62.459	67.029	73.031	88.086	161.579
2.00	57.752	61.881	65.993	69.785	76.159	85.223	93.446	103.468	126.281	213.084
1.25	77.876	82.637	87.855	93.310	101.864	115.699	130.887	147.712	180.608	271.534
1.11	91.180	96.025	101.694	108.223	118.110	135.477	156.390	178.471	217.548	304.219
1.04	108.000	112.611	118.570	126.422	137.884	160.065	189.357	218.871	265.112	340.187
1.02	120.556	124.765	130.758	139.571	152.135	178.129	214.431	250.032	301.117	363.819
1.01	133.146	136.776	142.659	152.415	166.026	196.005	239.938	282.080	337.575	385.212

1-4570.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MUSCONETCONG RIVER NEAR BLOOMSBURY, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1904	5850.0 1	3720.0 1	2310.0 1	1320.0 2	807.0 2	512.0 7	462.0 9	425.0 10	425.0 7	283.0 9
1905	1740.0 6	1190.0 10	938.0 9	810.0 5	613.0 8	428.0 21	390.0 17	365.0 14	290.0 26	195.0 37
1906	1050.0 29	769.0 31	589.0 37	517.0 31	451.0 29	377.0 28	329.0 29	306.0 27	260.0 33	194.0 33
1922	1010.0 32	669.0 39	540.0 40	434.0 39	391.0 37	373.0 29	333.0 28	299.0 29	265.0 31	198.0 29
1923	834.0 36	738.0 35	617.0 31	513.0 32	409.0 35	314.0 37	276.0 40	218.0 43	204.0 46	146.0 45
1924	1170.0 22	976.0 20	748.0 25	596.0 23	466.0 26	446.0 16	378.0 23	329.0 26	295.0 23	213.0 37
1925	1580.0 8	1260.0 9	927.0 11	679.0 14	563.0 13	442.0 19	347.0 26	300.0 28	236.0 37	173.0 37
1926	1030.0 31	828.0 28	613.0 32	527.0 29	429.0 34	333.0 33	293.0 37	289.0 32	261.0 32	186.0 34
1927	875.0 35	755.0 33	631.0 30	513.0 33	432.0 33	329.0 34	297.0 33	294.0 30	281.0 27	244.0 19
1928	1160.0 23	1100.0 14	930.0 10	760.0 8	728.0 3	687.0 2	577.0 2	511.0 3	464.0 2	425.0 1
1929	1310.0 16	742.0 34	638.0 29	562.0 26	498.0 20	389.0 26	384.0 18	344.0 22	297.0 21	210.0 24
1930	606.0 44	543.0 41	457.0 42	364.0 45	330.0 44	280.0 43	263.0 43	254.0 41	226.0 41	167.0 39
1931	1050.0 30	880.0 27	751.0 24	545.0 28	350.0 41	311.0 38	288.0 38	270.0 37	230.0 39	162.0 41
1932	540.0 45	480.0 45	469.0 41	402.0 40	317.0 45	245.0 45	203.0 47	183.0 47	155.0 47	114.0 47
1933	1150.0 24	1040.0 16	852.0 14	630.0 16	572.0 12	479.0 10	411.0 14	359.0 15	345.0 12	276.0 11
1934	1250.0 17	923.0 26	596.0 36	384.0 43	340.0 42	315.0 36	301.0 32	271.0 36	245.0 35	196.0 30
1935	1350.0 15	1120.0 13	809.0 19	526.0 30	375.0 38	275.0 44	274.0 41	268.0 39	266.0 30	213.0 23
1936	2080.0 4	1790.0 3	1450.0 3	1380.0 1	1070.0 1	764.0 1	591.0 1	543.0 1	464.0 3	298.0 5
1937	810.0 38	768.0 32	642.0 28	472.0 37	405.0 36	362.0 32	346.0 27	341.0 23	311.0 16	223.0 20
1938	1530.0 11	1310.0 7	1010.0 6	754.0 10	539.0 16	422.0 22	380.0 20	336.0 24	292.0 25	271.0 17
1939	1150.0 25	947.0 22	767.0 23	613.0 19	590.0 10	546.0 5	527.0 4	468.0 6	432.0 6	289.0 6
1940	2890.0 2	1370.0 6	861.0 12	605.0 22	488.0 24	461.0 14	461.0 10	402.0 11	313.0 15	219.0 21
1941	717.0 40	517.0 42	418.0 45	366.0 44	339.0 43	309.0 39	295.0 34	294.0 31	273.0 28	185.0 35
1942	1380.0 13	943.0 23	836.0 17	754.0 11	514.0 17	381.0 27	307.0 30	260.0 40	247.0 34	196.0 31
1943	1080.0 28	997.0 19	803.0 20	612.0 20	494.0 22	471.0 12	454.0 12	450.0 8	391.0 10	289.0 7
1944	1180.0 20	705.0 38	610.0 33	508.0 34	455.0 27	445.0 17	398.0 15	355.0 17	300.0 20	209.0 25
1945	1820.0 5	1390.0 5	1100.0 4	838.0 4	656.0 4	455.0 15	418.0 13	402.0 12	401.0 9	299.0 4
1946	777.0 39	728.0 37	609.0 34	557.0 27	488.0 23	441.0 20	380.0 21	356.0 16	316.0 14	252.0 15
1947	702.0 41	647.0 40	579.0 38	486.0 36	476.0 25	401.0 25	380.0 22	353.0 18	295.0 22	205.0 27
1948	1120.0 26	957.0 21	812.0 18	606.0 21	497.0 21	470.0 13	464.0 8	432.0 9	359.0 11	269.0 13
1949	1540.0 9	1300.0 8	975.0 7	796.0 6	557.0 14	444.0 18	384.0 19	353.0 19	294.0 24	198.0 28
1950	641.0 42	513.0 43	438.0 43	396.0 41	351.0 39	299.0 40	284.0 39	269.0 38	235.0 38	164.0 40
1951	1370.0 14	1140.0 11	959.0 8	755.0 9	587.0 11	501.0 9	495.0 7	474.0 5	442.0 5	311.0 3
1952	1460.0 12	1140.0 12	852.0 15	746.0 12	640.0 15	595.0 3	563.0 3	531.0 2	514.0 1	391.0 2
1953	1220.0 18	1030.0 17	801.0 21	639.0 15	554.0 15	517.0 6	496.0 6	465.0 7	455.0 4	289.0 8
1954	521.0 46	427.0 47	377.0 46	329.0 46	284.0 46	243.0 46	254.0 45	232.0 44	208.0 45	142.0 46
1955	2890.0 3	2330.0 2	1510.0 2	988.0 3	626.0 6	418.0 23	295.0 35	247.0 42	274.0 42	209.0 26
1956	1610.0 7	1510.0 4	1090.0 5	760.0 7	613.0 7	505.0 8	398.0 16	331.0 25	305.0 19	246.0 18
1957	825.0 37	770.0 30	717.0 27	578.0 25	449.0 30	328.0 35	295.0 36	281.0 33	270.0 29	180.0 36
1958	1530.0 10	941.0 25	857.0 13	733.0 13	612.0 9	550.0 4	504.0 5	475.0 4	416.0 8	257.0 14
1959	620.0 43	508.0 44	362.0 47	293.0 48	251.0 48	234.0 47	226.0 46	213.0 46	213.0 44	170.0 38
1960	1170.0 21	1020.0 18	796.0 22	624.0 17	454.0 28	365.0 31	352.0 25	352.0 20	339.0 13	278.0 10
1961	1110.0 27	943.0 24	742.0 26	587.0 24	512.0 18	472.0 11	457.0 11	393.0 13	310.0 17	250.0 16
1962	915.0 34	786.0 29	608.0 35	454.0 38	441.0 31	371.0 30	304.0 31	278.0 35	229.0 40	154.0 42
1963	958.0 33	732.0 36	561.0 39	504.0 35	438.0 32	295.0 41	259.0 44	231.0 45	218.0 43	147.0 44
1964	488.0 47	479.0 46	437.0 44	384.0 42	350.0 40	289.0 42	263.0 42	279.0 34	237.0 36	152.0 43
1965	450.0 48	406.0 48	316.0 49	227.0 49	182.0 49	149.0 49	136.0 49	128.0 49	116.0 49	82.6 49
1966	428.0 49	377.0 49	355.0 48	294.0 47	254.0 47	194.0 48	176.0 48	160.0 48	128.0 48	90.8 48
1967	1180.0 19	1070.0 15	839.0 16	617.0 18	508.0 19	403.0 24	374.0 24	349.0 21	310.0 18	249.0 17
MEAN	1259.531	984.163	765.428	598.714	484.592	400.714	361.673	333.428	298.000	219.579
VARIANCE	718073.312	294898.812	113763.000	50182.539	23223.414	14154.176	10711.238	8964.016	7914.000	4620.281
STD DEV	847.392	543.046	337.288	224.015	152.392	118.971	103.495	94.678	88.961	67.973
SKENNESS	3.655	3.033	2.279	1.475	1.133	.568	.287	.300	.472	.612
SE OF SKEW	.340	.340	.340	.340	.340	.340	.340	.340	.340	.340
SER CORR	.077	.075	.049	.006	.007	.026	.164	.192	.238	.245
C OF VAR	.673	.552	.441	.374	.314	.297	.286	.284	.299	.310

LOGS

MEAN OF	3.041	2.948	2.851	2.750	2.665	2.583	2.540	2.505	2.454	2.320
VAR OF	.046	.037	.028	.024	.019	.018	.017	.017	.018	.020
STD DEV OF	.215	.191	.168	.154	.137	.135	.132	.131	.136	.141
SKEW OF	.632	.535	.309	.005	-.351	-.551	-.596	-.599	-.519	-.562
SE OF SKEW OF	.340	.340	.340	.340	.340	.340	.340	.340	.340	.340
SER CORR OF	.066	.054	.037	.046	.099	.135	.234	.239	.280	.308
C OF VAR OF	.071	.065	.059	.056	.051	.052	.052	.052	.055	.061

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	439.473	379.575	315.648	246.684	205.096	164.407	150.163	139.479	122.631	86.273
1.05	538.145	462.569	389.482	313.963	267.372	219.881	200.790	186.099	163.444	117.051
1.11	609.435	520.632	438.719	357.073	305.672	253.684	231.456	214.285	188.356	135.975
1.25	720.111	608.354	510.134	417.314	357.017	298.381	271.765	251.278	221.375	161.151
2.00	1044.308	852.944	695.075	562.495	470.779	394.114	357.079	329.390	292.508	215.517
5.00	1629.791	1264.030	974.122	758.476	604.837	499.978	449.594	413.839	372.015	276.113
10.00	2121.063	1588.841	1175.526	886.891	682.605	557.645	499.085	458.908	415.786	309.251
25.00	2877.914	2064.589	1449.212	1048.000	770.894	619.680	551.534	506.595	463.299	344.960
50.00	3552.932	2470.052	1667.249	1167.396	830.627	659.567	584.790	536.785	494.110	367.931
100.00	4334.355	2922.404	1897.601	1286.422	886.000	695.043	614.038	563.309	521.706	388.377

1-4570.00 MUSCONETCONG RIVER NEAR BLOOMSBURY, N. J.

STATISTICS OF MONTHLY MEANS, 1904-06; 1922-1967							STATISTICS OF LOGS OF MONTHLY MEANS, 1904-06; 1922-1967					
	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	162.8	133.7	2.888	.8209	6.171	.641d	2.124	.2569	.8732	.1209	7.827	.769d
NOV	205.2	130.4	1.515	.6354	7.775	.450	2.234	.2621	.1436	.1173	8.234	.576
DEC	226.4	128.2	.9990	.5663	8.581	.663	2.289	.2440	.0158	.1066	8.435	.712
JAN	246.4	114.8	.6118	.4659	9.339	.676	2.343	.2152	-.3035	.0919	8.632	.744
FEB	263.3	106.6	.8742	.4050	9.977	.514	2.386	.1746	-.0693	.0732	8.794	.516
MAR	342.6	128.3	2.004	.3745	12.98	.279	2.509	.1507	.0133	.0601	9.245	.349
APR	331.3	137.0	.4929	.4136	12.56	.509	2.482	.1884	-.2685	.0759	9.146	.507
MAY	245.2	105.6	.5839	.4308	9.291	.557	2.349	.1915	-.0792	.0815	8.657	.611
JUN	166.1	80.46	.9982	.4845	6.293	.694	2.174	.2020	.1834	.0929	8.010	.747
JUL	148.1	112.4	2.048	.7586	5.614	.598	2.081	.2675	.5939	.1285	7.670	.760
AUG	150.9	128.8	2.056	.8534	5.720	.514	2.070	.2915	.7403	.1408	7.627	.601
SEP	150.4	98.27	1.351	.6532	5.700	.636	2.096	.2675	.1740	.1277	7.723	.776

d Serial correlation coefficient computed from non-continuous arrays of monthly mean discharges.

Drainage area.--6,328 sq mi (includes that of Musconetcong River).

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.

CLASS	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
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1907				8	14	13	14	13	14	26	22	36	26	27	37	39	27	8	9	6	5	8	4	3	5	1									3174860.0
1908	13	9	5	14	19	9	8	7	11	4	16	16	13	16	10	40	31	28	17	18	23	8	12	5	7	2	1	2	2					5320610.0	
1909		6	14	37	17	20	14	39	25	9	8	21	16	14	15	14	12	23	11	16	8	7	7	3	5	2	1							3696400.0	
1910		10	34	45	39	23	19	14	10		6	11	8	15	23	18	15	11	17	6	14	6	5	1	4	3	4		4					3352170.0	
1911		14	11	13	14	15	22	28	31	18	44	22	26	22	13	14	11	8	12	6	9	3	2	4	3									2907710.0	
1912			7	9	14	13	29	23	18	25	12	26	29	30	23	20	14	20	14	12	7	7	7	2	3	1	1							4372310.0	
1913			1	19	22	24	17	11	19	8	21	22	26	22	28	22	16	14	21	16	13	8	6	3	3		1	1				1		4147650.0	
1914			12	5	4	7	33	23	18	43	34	42	30	17	11	17	11	10	16	9	7	3	4	4	1	1	2							4034080.0	
1915		8	15	13	7	15	19	14	20	12	41	35	35	21	19	18	9	15	11	11	7	7	4	3	3	2	1							3511230.0	
1916					3	11	35	17	23	20	25	32	34	31	29	17	18	12	18	15	11	3	3	3	2	2		4						4575890.0	
1917					11	11	12	31	18	22	29	19	45	25	37	32	19	21	8	5	5	4	2	4	2	1	1	1						3628010.0	
1918		1	9	25	34	31	38	21	28	21	7	19	20	17	17	12	6	10	10	10	13	6	3	2	4	1								3575850.0	
1919					1	18	35	42	35	22	34	27	30	18	22	31	20	16	10	2	2														3648420.0
1920					4	6	23	42	31	40	27	26	23	17	16	24	14	25	11	7	5	2	6	7	6	1	2	1							4627380.0
1921				21	14	14	26	16	21	15	27	32	23	26	14	22	21	23	12	13	7	6	7	2	1	1	1							4256310.0	
1922			1	4	19	19	25	31	31	27	16	22	22	29	16	11	16	13	13	22	14	7	3				3	1						4267700.0	
1923		2	17	16	43	44	29	12	14	14	19	19	21	15	14	15	6	9	11	16	10	2	4	5	2	3	1	2						2830410.0	
1924			5	19	25	21	8	15	9	26	28	31	20	20	19	24	25	16	10	12	13	6	5	4	2	1			1	1				3843350.0	
1925			5	8	17	20	50	26	37	18	25	26	24	25	17	15	17	13	7	2	4	3	1	1				2	1	1				3330850.0	
1926				6	7	18	18	31	16	30	27	28	23	24	29	22	20	24	10	8	8	4	2											3448640.0	
1927						14	9	20	28	32	41	31	41	44	26	24	13	12	7	5	7	6	1	2			2							4511060.0	
1928						1	2			8	9	24	14	50	44	28	48	25	34	34	9	16	9	4	2	4				1				6863200.0	
1929		3	4	22	21	18	41	45	47	26	15	8	8	9	16	15	11	12	16	8	7	5	2	3	1	2								3374870.0	
1930		1	10	27	17	7	14	16	14	39	31	41	23	29	25	15	20	10	12	10	2	2												3204170.0	
1931		16	28	28	40	26	26	31	9	9	20	25	14	17	13	13	17	5	10	8	6	2	1	1										2681920.0	
1932	4	14	23	36	26	24	20	8	14	24	26	30	16	25	21	15	7	9	10	4	5	2	1	1	1									2780370.0	
1933		2	3	1	9	18	21	11	7	12	23	24	39	41	33	19	20	15	13	15	12	10	8	4	2	1	1					1		5054760.0	
1934				1	3	19	26	25	16	27	38	52	39	31	17	17	14	8	11	13	6	1		1										3420990.0	
1935					7	20	11	25	23	34	49	26	30	49	18	27	13	10	10	2	5	1	2	1				1	1					4104570.0	
1936				10	36	27	27	15	10	26	28	22	20	25	25	17	13	11	11	7	11	8	2	5	2		3				3	1		4921260.0	
1937				2	10	14	25	18	34	20	35	30	25	39	26	24	14	22	10	6	6	4		1										4251230.0	
1938				1	6	13	5	19	35	33	44	39	39	31	36	21	16	8	6	2	4	3	2				1	1						4846430.0	
1939		2	8	14	28	23	19	9	13	8	22	23	29	35	22	19	15	13	13	18	14	9	5	1	1	1	1							4379970.0	
1940				2	8	12	32	46	53	37	18	22	25	16	11	12	19	14	6	4	6	2	3	8	5	1	3					1		4157660.0	
1941		3	8	8	9	11	19	43	28	29	29	42	28	29	23	12	10	10	7	7	4	2	2	2										3137910.0	
1942		2	20	8	7	19	8	10	19	38	44	33	25	25	21	23	22	11	9	6	4	4	1	1	2	1			1			1		3785910.0	
1943		2	6	15	9	9	16	15	8	12	6	29	35	41	27	40	19	15	17	13	12	5	4						1	1				5172730.0	
1944		3	20	22	16	18	16	41	22	30	20	31	23	19	11	12	18	13	12	5	5	4	3	1				1						3197890.0	
1945				14	22	10	3		31	28	22	26	27	33	26	30	20	22	15	12	9	2	9	2	2									5257050.0	
1946				3	4	15	9	15	24	37	32	38	33	24	28	35	21	18	9	8	3	5	2	1	1									4551990.0	
1947						2	32	40	41	44	25	20	9	14	12	40	26	18	14	9	11	4	2		2									4670400.0	
1948				4	18	24	19	31	26	31	34	21	22	25	22	24	13	15	14	10	3	4	2	2		1			1					4425420.0	
1949				7	26	37	36	35	13	12	18	16	10	21	33	27	21	18	19	6	1	3		2	1			1	2					3729910.0	
1950				2	8	6	26	31	29	21	21	22	17	30	41	29	32	14	15	7	4	4		3	1	2								4082760.0	
1951					2	14	16	27	17	26	37	25	30	18	14	9	30	25	31	13	7	7	8	1	2	2	2	2						5164640.0	
1952						2	14	19	25	26	22	19	20	22	32	29	39	23	19	15	8	2	6	2										6343300.0	
1953				6	12	20	28	43	18	18	9	7	3	7	17	11	25	34	25	27	26	8	8	6	2	1	2	1			1			4983390.0	
1954		5	32	30	28	12	7	19	23	28	18	14	24	19	17	25	19	10	10	10	11	3	1											3735830.0	
1955			5	16	26	20	13	10	30	24	27	32	21	18	31	18	29	17	13	6	2	3		1			1					1	1		3898000.0
1956						3	19	21	40	35	22	19	33	29	31	25	18	20	16	11	5	5		1				1	1					5203980.0	
1957				15	25	21	21	27	24	28	29	29	32	30	21	14	15	10	6	9	3	1	1	3										3210760.0	
1958				6	7	30	22	32	34	24	32	29	11	15	13	11	16	15	13	16	16	12	6			1	1	3						4474150.0	
1959					5	32	64	31	33	20	29	31	19	16	31	17	17	7	7	1	2	1	2		1	2								3289010.0	
1960						6	14	27	23	38	42	48	47	26	28	22	11	7	6	3	5	6	3	1	1	1	1	1							5159400.0
1961						11	46	65	46	42	31	12	13	7	14	16	14	13	14	5	10	1	2	1	1	1									

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	22280	100.0	9	3400.00	1365	17725	73.3	18	15000.0	1230	3004	21.6	27	69000	48	128	.5
1	900.00	15	22280	100.0	10	4100.00	1365	17725	73.3	19	18000.0	869	3574	16.0	28	81000	46	80	.3
2	1100.00	68	22265	99.9	11	4800.00	1586	1476	67.2	20	21000.0	824	2705	12.1	29	96000	17	34	.1
3	1300.00	174	22197	99.8	12	5700.00	1588	13390	60.1	21	25000.0	636	1881	8.6	30	110000	5	17	.0
4	1500.00	479	22023	98.6	13	6700.00	1640	11842	53.2	22	30000.0	400	1245	5.6	31	130000	8	12	.0
5	1800.00	677	21544	96.7	14	7900.00	1421	10202	45.8	23	35000.0	310	845	3.8	32	160000	1	4	.0
6	2100.00	894	20867	93.7	15	9300.00	1487	8781	39.4	24	42000.0	187	535	2.4	33	190000	1	3	.0
7	2500.00	930	19973	89.6	16	11000.00	1373	7294	32.7	25	49000.0	144	348	1.6	34	220000	2	2	.0
8	2900.00	1318	19043	85.5	17	13000.00	1117	5921	26.6	26	58000.0	76	204	0.9					

1-4575.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

DELAWARE RIVER AT RIEGELSVILLE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1907	1320.0 8	1370.0 7	1450.0 9	1570.0 9	1640.0 8	2240.0 18	2940.0 28	4080.0 32	5920.0 39	13300.0 45
1908	906.0 1	939.0 1	975.0 1	1010.0 1	1170.0 1	1530.0 2	1690.0 2	2080.0 5	2740.0 6	10100.0 27
1909	1120.0 3	1210.0 4	1250.0 4	1290.0 4	1380.0 3	1470.0 1	1490.0 1	1610.0 1	2080.0 1	9650.0 20
1910	1130.0 4	1200.0 3	1210.0 2	1270.0 2	1330.0 2	1740.0 6	1880.0 5	2020.0 3	2450.0 5	7260.0 0
1911	1500.0 23	1610.0 23	1680.0 21	1850.0 22	2270.0 29	2990.0 33	4710.0 46	5650.0 46	7820.0 50	11600.0 33
1912	1580.0 24	1580.0 22	1680.0 22	1760.0 18	2220.0 26	2680.0 28	3140.0 30	3690.0 27	5560.0 32	12700.0 46
1913	1350.0 10	1450.0 14	1520.0 12	1740.0 16	1780.0 14	2090.0 14	2300.0 13	2590.0 18	4440.0 24	9270.0 14
1914	1200.0 6	1280.0 5	1320.0 5	1340.0 5	1550.0 6	1610.0 3	1860.0 4	2280.0 8	3080.0 7	11000.0 33
1915	2700.0 51	2740.0 49	3010.0 51	3390.0 51	3890.0 51	4950.0 54	5370.0 51	6140.0 51	6960.0 45	9720.0 23
1916	2080.0 39	2110.0 36	2130.0 34	2300.0 34	2820.0 38	3140.0 37	3480.0 31	3930.0 29	5830.0 35	11600.0 46
1917	1990.0 35	1990.0 33	2000.0 30	2020.0 29	2240.0 27	3070.0 35	3640.0 35	5690.0 48	5350.0 30	11000.0 33
1918	1420.0 19	1470.0 16	1520.0 13	1690.0 13	1990.0 19	2290.0 19	2740.0 24	3380.0 28	4040.0 21	9090.0 14
1919	2250.0 43	2310.0 40	2560.0 40	3060.0 50	3230.0 48	3550.0 41	5520.0 54	6470.0 54	7450.0 49	11900.0 49
1920	3390.0 57	3550.0 57	4180.0 57	4760.0 57	5530.0 57	6540.0 57	7860.0 57	7790.0 57	8330.0 52	13900.0 53
1921	1820.0 30	1820.0 29	1890.0 27	1930.0 25	2060.0 22	2440.0 24	2810.0 26	3180.0 23	3630.0 15	9680.0 23
1922	1430.0 19	1480.0 17	1570.0 14	1660.0 12	1740.0 12	1870.0 9	2090.0 9	2430.0 11	3280.0 12	9570.0 19
1923	1000.0 2	1120.0 2	1210.0 3	1270.0 3	1640.0 7	2020.0 13	2120.0 10	2220.0 7	3230.0 11	8600.0 21
1924	1590.0 25	1680.0 26	1830.0 26	2000.0 28	2260.0 28	2320.0 20	3110.0 29	4010.0 30	5530.0 31	11400.0 33
1925	1770.0 28	1800.0 28	1930.0 29	2270.0 33	3060.0 44	3930.0 48	4630.0 45	4740.0 40	5580.0 33	9190.0 14
1926	1590.0 26	1700.0 27	1910.0 28	1980.0 26	2150.0 24	2770.0 29	3500.0 32	4360.0 37	5610.0 34	11300.0 33
1927	2720.0 52	2900.0 52	3110.0 52	3520.0 54	4640.0 56	5670.0 55	6700.0 56	7260.0 56	9140.0 56	14400.0 56
1928	2620.0 48	2690.0 47	2780.0 46	2910.0 46	3040.0 42	3480.0 40	3720.0 37	4380.0 38	5860.0 38	13400.0 33
1929	1360.0 11	1410.0 10	1570.0 15	1810.0 21	2320.0 30	2460.0 25	2680.0 22	3300.0 25	4920.0 26	10600.0 30
1930	1360.0 12	1390.0 8	1440.0 8	1460.0 7	1520.0 5	1740.0 4	1950.0 6	2010.0 2	2290.0 2	5430.0 0
1931	1410.0 17	1450.0 15	1620.0 16	1770.0 19	1820.0 15	1920.0 11	2090.0 9	2330.0 10	4130.0 22	8620.0 14
1932	1170.0 5	1280.0 6	1320.0 6	1340.0 6	1510.0 4	1910.0 10	2380.0 16	3700.0 28	5850.0 36	10800.0 33
1933	1990.0 36	2280.0 39	2360.0 37	2450.0 37	2600.0 36	3100.0 36	4170.0 42	6140.0 52	9010.0 55	11600.0 33
1934	2060.0 37	2340.0 41	2590.0 41	2890.0 43	3120.0 45	3790.0 46	4290.0 43	5130.0 42	7090.0 46	11600.0 33
1935	1870.0 33	2000.0 34	2220.0 36	2260.0 31	2480.0 32	3240.0 38	3700.0 36	5850.0 49	7170.0 48	13900.0 53
1936	1850.0 32	1940.0 31	2150.0 35	2330.0 35	2590.0 35	2980.0 32	2920.0 27	3180.0 24	4320.0 23	10000.0 27
1937	2810.0 53	3110.0 53	3180.0 53	3410.0 52	3950.0 52	5800.0 56	5410.0 52	6140.0 53	8450.0 53	12200.0 43
1938	3880.0 59	4060.0 59	4580.0 59	4780.0 58	5850.0 58	8100.0 59	9540.0 59	11500.0 59	12200.0 59	14800.0 59
1939	1380.0 15	1430.0 12	1660.0 19	1860.0 23	2000.0 20	2350.0 22	2440.0 17	2670.0 17	3780.0 18	7340.0 0
1940	2330.0 44	2560.0 45	2620.0 42	2750.0 40	3150.0 46	4350.0 50	5580.0 55	5680.0 43	7100.0 47	13100.0 43
1941	1410.0 16	1430.0 13	1510.0 10	1580.0 10	1650.0 9	1820.0 7	2270.0 11	2500.0 12	3140.0 8	7550.0 0
1942	3640.0 58	3950.0 58	4450.0 58	5270.0 59	5860.0 59	8040.0 58	7960.0 58	9010.0 58	11800.0 58	15300.0 58
1943	1360.0 13	1500.0 18	1680.0 23	1800.0 20	1820.0 16	2110.0 15	2460.0 19	3050.0 22	5850.0 37	9740.0 0
1944	1430.0 20	1540.0 20	1630.0 17	1730.0 15	1780.0 13	2230.0 17	2580.0 20	2660.0 15	3650.0 12	10100.0 20
1945	5520.0 60	5930.0 60	6080.0 60	7320.0 60	7430.0 60	11400.0 60	11700.0 60	13400.0 60	13300.0 60	15900.0 59
1946	2140.0 40	2360.0 42	2730.0 45	2930.0 47	3250.0 49	4380.0 51	4720.0 47	4540.0 39	4950.0 27	9560.0 14
1947	2150.0 42	2530.0 44	2680.0 44	2780.0 41	2920.0 39	3770.0 45	5130.0 49	7190.0 55	6720.0 44	14200.0 44
1948	2080.0 38	2130.0 37	2400.0 38	2620.0 39	2820.0 37	3020.0 34	3590.0 34	4180.0 33	5290.0 29	12600.0 29
1949	1840.0 31	1950.0 32	2060.0 33	2390.0 36	2580.0 33	2670.0 27	2710.0 23	2880.0 20	3390.0 13	9360.0 14
1950	1840.0 45	2500.0 43	2620.0 43	2840.0 42	3060.0 43	3610.0 43	3900.0 38	4250.0 34	6340.0 41	14500.0 53
1951	4050.0 55	3120.0 54	3380.0 54	3470.0 53	4060.0 55	4590.0 52	5360.0 50	6060.0 50	6660.0 43	14500.0 53
1952	2490.0 46	2690.0 46	2870.0 49	2910.0 44	2980.0 41	3560.0 42	5460.0 53	5650.0 47	8780.0 54	16700.0 60
1953	1620.0 27	1670.0 25	1800.0 24	1890.0 24	2000.0 21	2340.0 21	2360.0 14	2660.0 16	3780.0 19	10300.0 27
1954	1300.0 7	1410.0 11	1520.0 11	1580.0 11	1650.0 10	1860.0 8	2280.0 12	2310.0 9	3880.0 20	9040.0 13
1955	1500.0 21	1630.0 24	1830.0 25	1990.0 27	2100.0 23	2910.0 31	3570.0 33	5490.0 44	10300.0 57	13000.0 44
1956	3250.0 56	3290.0 55	3440.0 55	3700.0 55	4010.0 53	4710.0 53	4850.0 48	5550.0 45	6280.0 40	11400.0 33
1957	1900.0 34	2010.0 35	2040.0 31	2130.0 30	2210.0 25	2360.0 23	2450.0 18	2570.0 13	3170.0 9	9520.0 14
1958	2600.0 47	2750.0 50	2790.0 47	2930.0 48	3150.0 47	3650.0 44	4060.0 40	4340.0 36	6380.0 42	11800.0 44
1959	2660.0 49	2780.0 51	2990.0 50	3030.0 49	3730.0 50	3810.0 47	3910.0 39	4030.0 31	5270.0 28	10600.0 28
1960	2960.0 54	3360.0 56	3580.0 56	3820.0 56	4040.0 54	4280.0 49	4620.0 44	5100.0 41	7860.0 51	12400.0 44
1961	2660.0 50	2740.0 48	2870.0 48	2910.0 45	2950.0 40	3350.0 39	4080.0 41	4330.0 35	4780.0 25	9860.0 25
1962	2140.0 41	2230.0 38	2430.0 39	2500.0 38	2590.0 34	2780.0 30	2750.0 25	2920.0 21	3710.0 17	8200.0 17
1963	1340.0 9	1500.0 19	1660.0 18	1710.0 14	1920.0 18	2220.0 16	2360.0 15	2630.0 14	3210.0 10	7710.0 0
1964	1500.0 22	1550.0 21	1670.0 20	1750.0 17	1880.0 17	2020.0 12	2080.0 7	2190.0 6	2450.0 3	5970.0 0
1965	1370.0 14	1400.0 9	1440.0 7	1480.0 8	1660.0 11	1740.0 5	1850.0 3	2060.0 4	2450.0 4	5490.0 0
1966	1800.0 29	1900.0 30	2060.0 32	2270.0 32	2410.0 31	2510.0 26	2630.0 21	2810.0 19	3620.0 14	6810.0 0
MEAN	2001.933	2118.317	2270.583	2450.500	2717.500	3297.833	3769.000	4363.664	5620.500	10862.164
VARIANCE	6.830x10 ⁵	7.802x10 ⁵	9.081x10 ⁵	1.229x10 ⁶	1.529x10 ⁶	3.214x10 ⁶	3.834x10 ⁶	5.122x10 ⁶	6.359x10 ⁶	6.626x10 ⁶
STD DEV	826.443	883.270	952.918	1108.592	1236.483	1792.659	1958.086	2263.174	2521.607	2574.160
SKEWNESS	1.702	1.751	1.611	1.972	1.672	2.329	1.850	1.746	1.003	.045
SE OF SKEW	.309	.309	.309	.309	.309	.309	.309	.309	.309	.309
SER CORR	.134	.142	.160	.115	.090	.072	.069	.025	.039	.158
C OF VAR	.413	.417	.420	.452	.455	.544	.520	.519	.449	.237

LOGS

MEAN OF	3.271	3.295	3.324	3.354	3.398	3.472	3.530	3.592	3.709	4.023
VAR OF	.025	.026	.026	.029	.030	.036	.038	.040	.037	.012
STD DEV OF	.159	.160	.163	.170	.173	.190	.195	.201	.192	.109
SKEW OF	.514	.549	.500	.566	.566	.822	.547	.371	.006	-.617
SE OF SKEW OF	.309	.309	.309	.309	.309	.309	.309	.309	.309	.309
SER CORR OF	.260	.266	.291	.258	.223	.186	.191	.156	.164	.232
C OF VAR OF	.049	.049	.049	.051	.051	.055	.055	.056	.052	.027

1-4575.00 DELAWARE RIVER AT RIEGELSVILLE, N. J.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	914.010	973.081	1014.924	1073.707	1169.180	1400.710	1432.701	1511.755	1834.210	5250.441
20.00	1081.310	1145.883	1207.469	1273.454	1391.476	1622.505	1748.657	1921.608	2474.943	6697.734
10.00	1195.013	1264.013	1338.404	1411.439	1545.469	1785.692	1970.740	2205.418	2904.025	7542.625
5.00	1362.515	1438.831	1531.422	1617.479	1775.989	2041.395	2307.598	2630.558	3524.906	8623.402
2.00	1808.511	1907.909	2046.094	2179.333	2407.526	2797.073	3253.667	3796.988	5108.988	10819.148
1.25	2509.706	2653.335	2857.005	3093.242	3441.775	4169.516	4860.508	5707.297	7409.551	13086.430
1.11	3034.154	3215.794	3464.560	3796.213	4241.801	5325.043	6141.277	7180.871	9001.172	14258.211
1.04	3768.737	4009.344	4316.672	4803.738	5393.711	7111.719	8030.844	9292.871	11078.992	15471.828
1.02	4370.492	4663.691	5015.480	5646.258	6360.895	8711.980	9651.766	11056.270	12671.105	16227.039
1.01	5020.988	5374.820	5771.484	6572.187	7427.309	10572.316	11469.652	12989.742	14298.789	16882.320

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DELAWARE RIVER AT RIEGELSVILLE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1907	53900.0 53	45700.0 50	39800.0 46	35900.0 37	25100.0 43	17800.0 54	15300.0 56	14300.0 53	12500.0 52	8700.0 51
1908	105000.0 16	78100.0 23	49300.0 34	41800.0 19	34700.0 11	28500.0 10	25900.0 9	23500.0 6	21700.0 5	14500.0 3
1909	99100.0 22	69400.0 32	58900.0 16	46100.0 14	31400.0 26	24200.0 31	24700.0 31	21700.0 13	17500.0 19	10100.0 35
1910	94600.0 23	87900.0 16	67500.0 9	49600.0 9	34700.0 12	26700.0 19	22700.0 21	20900.0 17	16200.0 29	9180.0 43
1911	54600.0 52	48200.0 47	33100.0 54	29400.0 50	26200.0 41	18500.0 48	15800.0 51	13800.0 57	12300.0 56	7970.0 54
1912	83000.0 32	70700.0 29	55000.0 25	41000.0 22	40200.0 5	31500.0 4	25300.0 11	20800.0 18	17000.0 22	11900.0 21
1913	139000.0 4	96500.0 7	64400.0 11	43200.0 17	34200.0 15	26000.0 24	21400.0 25	21100.0 15	17900.0 16	11400.0 26
1914	130000.0 7	104000.0 4	77100.0 5	57200.0 4	42300.0 4	31700.0 7	23700.0 19	20600.0 22	16500.0 28	11100.0 29
1915	78600.0 35	65200.0 36	42200.0 45	35200.0 38	27700.0 38	26300.0 23	19900.0 32	17700.0 31	13600.0 42	9620.0 39
1916	90700.0 26	89200.0 12	72000.0 8	50200.0 8	40100.0 6	26900.0 18	22100.0 23	20800.0 19	18300.0 12	12500.0 16
1917	86100.0 29	74300.0 26	59400.0 13	46200.0 13	31000.0 29	21300.0 37	18500.0 35	17200.0 33	14400.0 38	9940.0 37
1918	73300.0 41	59600.0 43	45200.0 41	40300.0 27	33900.0 16	27200.0 17	23800.0 18	20300.0 24	14700.0 34	9800.0 38
1919	36300.0 59	32100.0 59	25600.0 59	22500.0 59	20300.0 59	18700.0 45	17700.0 41	15200.0 45	13900.0 41	10000.0 36
1920	102000.0 20	94500.0 10	75200.0 7	62500.0 3	54000.0 2	36200.0 2	27200.0 4	22100.0 11	17600.0 17	12600.0 14
1921	90000.0 27	77700.0 24	58600.0 17	45900.0 15	33900.0 17	25200.0 26	21200.0 26	18800.0 28	18000.0 13	11700.0 22
1922	85400.0 30	70200.0 31	51500.0 32	37500.0 34	31900.0 25	27400.0 15	22400.0 22	20700.0 20	16700.0 26	11700.0 23
1923	71100.0 45	61800.0 41	47400.0 38	40500.0 24	34700.0 13	24400.0 30	20700.0 29	17000.0 36	13300.0 44	7750.0 57
1924	109000.0 13	85900.0 17	57500.0 19	40300.0 25	31300.0 27	25900.0 25	20700.0 30	17200.0 34	16900.0 24	10500.0 32
1925	117000.0 9	83300.0 19	55600.0 24	40300.0 26	29200.0 34	22700.0 33	18100.0 37	15700.0 42	12100.0 58	9130.0 44
1926	46300.0 55	39200.0 54	31300.0 56	22900.0 58	21500.0 54	18800.0 44	16300.0 48	14400.0 52	14200.0 40	9450.0 40
1927	91700.0 25	78600.0 21	52600.0 30	38900.0 29	28400.0 37	20700.0 39	18000.0 38	16900.0 37	15700.0 30	12400.0 17
1928	102000.0 21	78400.0 22	54600.0 27	38700.0 31	34400.0 14	31500.0 5	26300.0 7	22400.0 10	20300.0 6	18800.0 1
1929	80200.0 34	70600.0 30	49200.0 35	37400.0 36	30800.0 30	27700.0 13	24200.0 16	20200.0 25	15200.0 33	9750.0 42
1930	39300.0 58	34900.0 58	29600.0 57	23300.0 57	21000.0 55	17700.0 55	14400.0 58	14000.0 56	12500.0 53	8780.0 49
1931	55000.0 51	46300.0 49	38300.0 47	32100.0 46	24400.0 46	20000.0 41	17100.0 44	15200.0 46	12300.0 57	7350.0 59
1932	62800.0 47	52800.0 45	42800.0 43	34700.0 42	25300.0 42	18000.0 51	15500.0 55	14600.0 51	12400.0 54	7600.0 58
1933	133000.0 5	98500.0 6	57500.0 20	38900.0 30	32000.0 24	24700.0 28	20400.0 31	17700.0 32	16700.0 25	13800.0 9
1934	57200.0 49	37800.0 56	28700.0 58	27500.0 53	24300.0 47	18600.0 46	16000.0 49	14100.0 54	12400.0 55	9370.0 41
1935	103000.0 17	64800.0 37	43700.0 42	27700.0 52	21000.0 56	17200.0 57	15600.0 54	15300.0 44	14500.0 37	11200.0 27
1936	228000.0 1	177000.0 1	120000.0 1	98000.0 1	65300.0 1	42300.0 1	31100.0 1	26100.0 1	22500.0 3	13400.0 11
1937	64800.0 46	45000.0 52	37100.0 48	29700.0 49	24800.0 44	20100.0 40	18400.0 36	16700.0 30	17000.0 23	11600.0 24
1938	103000.0 18	83700.0 18	52800.0 28	30400.0 47	21000.0 57	17500.0 56	16900.0 45	15100.0 47	14600.0 35	13300.0 12
1939	91800.0 24	74300.0 27	56100.0 22	38400.0 32	29200.0 35	27400.0 14	24200.0 17	20700.0 21	19500.0 10	12000.0 20
1940	147000.0 3	106000.0 3	78700.0 3	70100.0 2	53000.0 3	35300.0 3	28700.0 2	23600.0 5	17500.0 18	11400.0 25
1941	52800.0 54	45200.0 51	37000.0 49	29700.0 48	22900.0 52	16100.0 59	13800.0 59	14100.0 55	13100.0 45	8600.0 52
1942	132000.0 6	101000.0 5	59200.0 14	35100.0 39	24000.0 49	18000.0 52	19000.0 34	17000.0 35	14300.0 39	10400.0 33
1943	103000.0 19	83200.0 20	52600.0 29	35000.0 40	28800.0 36	22200.0 34	22000.0 24	21100.0 16	19600.0 9	14200.0 6
1944	71400.0 43	52800.0 46	35400.0 51	26900.0 55	23200.0 51	22200.0 35	17800.0 39	15000.0 48	12600.0 49	8740.0 50
1945	74600.0 39	65400.0 35	55900.0 23	41800.0 20	39000.0 9	27800.0 11	25100.0 12	22500.0 9	21400.0 6	14400.0 4
1946	76000.0 38	64500.0 38	47400.0 39	37500.0 35	27500.0 40	17900.0 53	17700.0 42	16600.0 38	15400.0 32	12500.0 15
1947	76100.0 37	68700.0 33	46800.0 40	33000.0 43	30100.0 31	26400.0 21	25000.0 13	22000.0 12	19200.0 11	12800.0 13
1948	114000.0 10	92500.0 11	75400.0 6	53400.0 7	39800.0 7	29600.0 9	25900.0 8	23000.0 8	17900.0 14	12100.0 19
1949	108000.0 14	89000.0 13	59200.0 15	48800.0 11	32300.0 22	25000.0 27	21000.0 28	19500.0 26	16600.0 27	10200.0 34
1950	73900.0 40	63000.0 39	48800.0 36	43700.0 16	32500.0 21	24400.0 29	21100.0 27	18800.0 29	17100.0 20	1200.0 28
1951	108000.0 15	89000.0 14	61400.0 12	49200.0 10	33400.0 20	27800.0 12	26600.0 6	24200.0 3	22400.0 4	14100.0 7
1952	78100.0 36	62900.0 40	48700.0 37	42500.0 18	36000.0 10	31000.0 8	28500.0 3	25100.0 2	23700.0 1	17300.0 2
1953	126000.0 8	89000.0 15	57300.0 21	37900.0 33	31000.0 28	26300.0 22	24400.0 15	23800.0 4	23000.0 2	13700.0 10
1954	44300.0 56	36400.0 57	31400.0 55	26300.0 56	20800.0 58	16700.0 58	17800.0 40	15900.0 40	14500.0 36	8870.0 47
1955	221000.0 2	172000.0 2	95200.0 2	54700.0 5	32000.0 23	18300.0 49	14500.0 57	13200.0 58	12900.0 47	10700.0 30
1956	112000.0 12	96300.0 8	65300.0 10	41600.0 21	33700.0 19	26500.0 20	23000.0 20	20500.0 23	17000.0 21	14200.0 5
1957	71400.0 44	61300.0 42	49700.0 33	34900.0 41	24400.0 45	18900.0 43	15800.0 52	15000.0 49	13400.0 43	8800.0 48
1958	88900.0 28	76800.0 25	58100.0 18	47600.0 12	39000.0 8	31200.0 6	27000.0 5	23100.0 7	20300.0 7	12300.0 18
1959	56300.0 50	44100.0 53	33400.0 53	27200.0 54	21500.0 53	18200.0 50	15900.0 50	14600.0 50	12900.0 48	9010.0 45
1960	114000.0 11	95700.0 9	77800.0 4	53400.0 6	33900.0 18	22800.0 32	19800.0 33	18900.0 27	17900.0 15	14100.0 8
1961	83500.0 31	72400.0 28	52200.0 31	40900.0 23	29800.0 32	27300.0 16	25500.0 10	21300.0 14	15700.0 31	10600.0 31
1962	62400.0 48	47900.0 48	35100.0 52	32700.0 44	27600.0 39	21500.0 36	18800.0 47	15800.0 41	12500.0 50	7850.0 55
1963	81300.0 33	68100.0 34	54800.0 26	39400.0 28	29200.0 33	19600.0 42	15700.0 53	13200.0 59	11300.0 59	7810.0 56
1964	71700.0 42	54200.0 44	42400.0 44	32300.0 45	23300.0 50	20800.0 38	16900.0 46	13600.0 39	13000.0 46	8000.0 53
1965	32400.0 60	28000.0 60	24400.0 60	16800.0 61	12900.0 61	10300.0 61	10300.0 61	8760.0 61	7200.0 61	4620.0 61
1966	30800.0 61	26800.0 61	22400.0 61	19000.0 60	17900.0 60	14200.0 60	12500.0 60	11500.0 60	9280.0 60	6230.0 60
1967	40000.0 57	38700.0 55	36800.0 50	28800.0 51	24300.0 48	18600.0 47	17200.0 43	15500.0 43	12500.0 51	8950.0 46

1-4575.00 DELAWARE RIVER AT RIEGELSVILLE, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	88650.812	71591.750	52006.555	39416.391	30557.375	23667.211	20439.344	18273.113	15820.980	10853.605
VARIANCE	1.403x10 ⁹	7.954x10 ⁸	3.017x10 ⁸	1.637x10 ⁸	7.680x10 ⁷	3.439x10 ⁷	2.094x10 ⁷	1.410x10 ⁷	1.183x10 ⁷	6.769x10 ⁶
STD DEV	37453.477	28203.402	17368.344	12794.383	8763.785	5864.309	4575.840	3755.558	3440.156	2601.752
SKEWNESS	1.483	1.402	1.130	1.753	1.418	.541	.167	-.022	.274	.465
SE OF SKEW	.306	.306	.306	.306	.306	.306	.306	.306	.306	.306
SER CORR	-.042	-.097	-.101	-.083	-.102	-.012	.049	.146	.253	.223
C OF VAR	.422	.394	.334	.325	.287	.248	.224	.206	.217	.240

LOGS

MEAN OF	4.912	4.824	4.693	4.576	4.469	4.361	4.299	4.252	4.189	4.023
VAR OF	.032	.028	.020	.017	.014	.012	.010	.009	.010	.011
STD DEV OF	.179	.168	.143	.132	.118	.109	.100	.094	.098	.107
SKEW OF	-.181	-.193	-.144	.070	.089	-.292	-.313	-.562	-.482	-.448
SE OF SKEW OF	.306	.306	.306	.306	.306	.306	.306	.306	.306	.306
SER CORR OF	.054	-.006	-.022	.028	.009	.077	.105	.179	.296	.302
C OF VAR OF	.036	.035	.030	.029	.026	.025	.023	.022	.023	.027

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	29738.297	25667.277	22147.961	18872.406	15930.746	12120.965	11057.684	9920.316	8469.492	5487.379
1.05	40707.562	34555.309	28326.703	22989.137	18965.977	14879.523	13373.418	12152.273	10375.414	6828.930
1.11	47890.133	40292.703	32196.836	25572.648	20844.875	16516.582	14728.434	13426.004	11474.660	7615.316
1.25	58042.523	48311.191	37489.906	29128.555	23403.598	18657.320	16480.754	15031.906	12874.648	8629.762
2.00	82715.312	67440.250	49727.762	37508.930	29332.414	23239.262	20164.797	18238.062	15724.949	10738.887
5.00	115833.187	92508.062	65226.238	48542.016	36972.230	28448.504	24255.887	21504.859	18722.234	13020.191
10.00	137181.187	108377.625	74833.250	55658.207	41823.332	31409.121	26539.613	23188.344	20311.984	14257.395
25.00	163460.500	127656.125	86357.500	64498.430	47782.879	34733.656	29071.055	24935.820	22001.250	15593.695
50.00	182549.125	141503.500	94560.062	71002.312	52127.023	36967.191	30753.039	26028.152	23080.281	16459.566
100.00	201244.437	154951.562	102479.562	77455.125	56407.383	39029.609	32293.363	26980.621	24037.695	17236.270

STATISTICS OF MONTHLY MEANS, 1907-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1907-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	6076.	4999.	2.299	.8227	4.661	.407	3.676	.2986	.4014	.0812	7.821	.597
NOV	9673.	6471.	.7999	.6689	7.421	.600	3.877	.3279	-.3277	.0846	8.250	.686
DEC	10900.	6488.	.8784	.5954	8.359	.527	3.958	.2736	-.2373	.0691	8.422	.656
JAN	11550.	5843.	.8128	.5060	8.859	.319	4.004	.2355	-.3857	.0588	8.521	.390
FEB	11670.	6004.	1.158	.5145	8.951	.315	4.015	.2139	.1036	.0533	8.543	.284
MAR	21060.	8712.	1.536	.4137	16.15	-.206	4.290	.1708	.0112	.0398	9.129	-.210
APR	21690.	8156.	.8618	.3760	16.64	.005	4.306	.1678	-.3319	.0390	9.162	.036
MAY	13220.	5213.	.5393	.3944	10.14	.217	4.087	.1768	-.1671	.0432	8.696	.235
JUN	7928.	3863.	1.162	.4873	6.082	.415	3.854	.1976	.3004	.0513	8.200	.470
JUL	6219.	4981.	2.203	.8009	4.771	.636	3.698	.2733	.7301	.0739	7.868	.656
AUG	5298.	4545.	2.863	.8578	4.064	.394	3.622	.2791	.7918	.0771	7.708	.572
SEP	5080.	4109.	2.285	.8088	3.897	.601	3.609	.2739	.7242	.0759	7.680	.740

1-4620.00 DELAWARE RIVER AT LAMBERTVILLE, N. J.

Location.--Lat 40°21'50", long 74°56'55", at bridge.

Drainage area.--6,680 sq mi.

Remarks.--Regulation probably not significant. Diversions significant at low flow only.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1898		5	4	5	7	7	5	2	2	5	5	4	11	9	9	16	21	49	32	28	22	25	17	31	21	9	9	4	1						6062620.0	
1899				2	3	4	2	3	13	5	7	11	12	14	29	27	21	26	16	29	21	23	25	20	21	15	9	6	1						6083085.0	
1900	1			1	6	13	7	19	13	13	14	20	19	26	35	16	39	27	25	18	16	14	6	7	3	3		3	3	2					4243815.0	
1901			1	4	7	9	5	12	45	9	15	10	20	21	20	24	21	17	5	22	17	19	16	12	11	6	9	5	3						4620205.0	
1902									2	5	7	11	19	24	35	31	34	17	14	48	17	18	23	10	9	7	12	8	3	2	4	1	1	2	1	6853910.0
1903										2	3	3	5	18	17	33	26	29	20	25	19	22	27	19	29	22	18	11	8	3	1	2	3		7366600.0	
1904		4	1	3	1		1	6	12	29	42	29	45	47	29	35	16	17	6	7	5	14	2	3	4							1		1	3341610.0	
1905					1	2	3	7	14	12	12	33	51	52	39	44	27	12	9	7	6	7	3	3	4	1	6	3	3	4					1676060.0	
1906					1	1	3	3	6	1	6	5	14	24	54	78	60	20	15	20	12	6	13	6	6	3	4		1	2		1			4220740.0	

CFS_DAYS

6062620.0

6083085.0

4243815.0

4620205.0

6853910.0

7166600.0

3781610.0

1696060.0

4220740.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1	3287	100.0	9	2700.00	82	3020	91.9	18	12000.0	149	1217	37.0	27	54000	34	82	2.4
1	700.00	9	3286	100.0	10	3100.00	110	2938	89.4	19	14000.0	205	1068	32.5	28	63000	18	48	1.4
2	830.00	6	3277	99.7	11	3700.00	122	2828	86.0	20	17000.0	140	863	26.3	29	75000	12	30	.9
3	980.00	14	3271	99.5	12	4400.00	210	2706	82.3	21	20000.0	155	723	22.0	30	88000	6	18	.5
4	1200.00	21	3257	99.1	13	5200.00	227	2496	75.9	22	23000.0	132	568	17.3	31	100000	5	12	.3
5	1400.00	29	3236	98.4	14	6100.00	274	2269	69.0	23	27000.0	120	436	13.3	32	120000	2	7	.2
6	1600.00	32	3207	97.6	15	7200.00	316	1995	60.7	24	32000.0	105	316	9.6	33	150000	2	5	.1
7	1900.00	40	3175	96.6	16	8500.00	245	1679	51.1	25	38000.0	62	211	6.4	34	170000	3	3	.0
8	2200.00	115	3135	95.4	17	10000.00	217	1434	43.6	26	45000.0	67	149	4.5					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

DELAWARE RIVER AT LAMBERTVILLE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL									
1898	1120.0	3	1250.0	4	1430.0	4	2060.0	4	3720.0	6	6800.0	7	10400.0	8	9540.0	7	12800.0	7	18500.0
1899	1120.0	4	1150.0	3	1300.0	3	1600.0	3	2840.0	4	4880.0	4	5070.0	4	5380.0	4	6390.0	4	13800.0
1900	875.0	2	1040.0	2	1220.0	2	1530.0	2	1770.0	1	2120.0	1	2220.0	1	2470.0	1	3360.0	1	7370.0
1901	1220.0	5	1330.0	5	1570.0	5	2980.0	6	4280.0	8	5380.0	6	8240.0	6	9890.0	8	9510.0	5	20800.0
1902	2300.0	7	2560.0	7	2910.0	7	3400.0	8	4170.0	7	7800.0	8	10300.0	7	9440.0	6	13300.0	8	20400.0
1903	2500.0	8	2670.0	8	3000.0	8	3040.0	7	3600.0	5	5030.0	5	6360.0	5	7330.0	5	12100.0	6	13200.0
1904	700.0	1	720.0	1	843.0	1	1400.0	1	2490.0	2	2910.0	2	3350.0	3	3650.0	2	4260.0	2	8910.0
1905	1350.0	6	1440.0	6	1720.0	6	2290.0	5	2730.0	3	2910.0	3	3340.0	2	3970.0	3	5910.0	3	9390.0

	1 ^a	3	7	14	30	60	90	120	183	ANNUAL
MEAN		1517.500	1749.125	2287.500	3200.000	4728.750	6160.000	6458.750	8453.750	14046.250
VARIANCE		5.084x10 ⁵	6.214x10 ⁵	5.956x10 ⁵	7.767x10 ⁵	3.955x10 ⁶	1.029x10 ⁷	8.867x10 ⁶	1.586x10 ⁷	2.846x10 ⁷
STD DEV		713.057	788.293	771.765	881.330	1988.597	3208.110	2977.805	3983.006	5334.922
SKEWNESS		1.015	.972	.275	-.294	.203	.283	-.040	.043	.148
SE OF SKEW		.752	.752	.752	.752	.752	.752	.752	.752	.752
SER CORR		.139	.143	.263	.059	.190	.175	.108	.165	.138
C OF VAR		.470	.451	.337	.275	.421	.521	.461	.471	.380

LOGS

	1 ^a	3	7	14	30	60	90	120	183	ANNUAL
MEAN OF		3.142	3.207	3.337	3.489	3.637	3.731	3.762	3.878	4.118
VAR OF		.038	.035	.022	.017	.039	.062	.052	.052	.030
STD DEV OF		.195	.187	.149	.131	.198	.249	.227	.229	.174
SKEW OF		.339	.348	.008	-.770	-.376	-.274	-.478	-.382	-.191
SE OF SKEW OF		.752	.752	.752	.752	.752	.752	.752	.752	.752
SER CORR OF		-.008	.001	.164	-.014	.124	.111	.024	.084	.075
C OF VAR OF		.062	.058	.045	.037	.055	.067	.060	.059	.042

^a Statistics not computed, less than ten non-zero input values.

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DELAWARE RIVER AT LAMBERTVILLE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL									
1898	66500.0	8	56800.0	8	46800.0	8	35400.0	9	29700.0	9	27100.0	6	25800.0	5	25300.0	4	23900.0	4	16400.0
1899	63000.0	9	55800.0	9	49200.0	7	45600.0	5	40400.0	3	38400.0	2	30900.0	3	28400.0	3	26000.0	3	16700.0
1900	87300.0	5	68900.0	6	45800.0	9	38700.0	7	36300.0	5	28000.0	5	23800.0	6	21500.0	6	18200.0	6	11600.0
1901	71800.0	7	58100.0	7	49900.0	6	38500.0	8	33300.0	7	31400.0	4	29500.0	4	24500.0	5	20200.0	5	12700.0
1902	172000.0	2	152000.0	2	107000.0	2	74000.0	1	59900.0	1	43600.0	1	36000.0	1	34600.0	1	27300.0	2	18800.0
1903	111000.0	3	90700.0	3	63900.0	4	54000.0	4	48300.0	2	38000.0	3	34300.0	2	33900.0	2	27400.0	1	20200.0
1904	246000.0	1	194000.0	1	113000.0	1	62600.0	2	36100.0	6	22900.0	8	17700.0	9	14400.0	9	14100.0	8	9240.0
1905	85000.0	6	80300.0	4	66100.0	3	58000.0	3	36800.0	4	22000.0	9	18600.0	8	17300.0	8	14000.0	9	9880.0
1906	105000.0	4	76000.0	5	55300.0	5	42500.0	6	33100.0	8	25700.0	7	20600.0	7	18100.0	7	16000.0	7	11600.0

1-4620.00 DELAWARE RIVER AT LAMBERTVILLE, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS--(continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	111955.500	92511.062	66333.312	49922.219	39322.219	30788.887	26355.555	24222.219	20788.887	14146.66
VARIANCE	3.629x10 ⁹	2.329x10 ⁹	6.658x10 ⁸	1.704x10 ⁸	8.733x10 ⁷	5.765x10 ⁷	4.521x10 ⁷	5.117x10 ⁷	3.047x10 ⁷	1.602x10 ⁷
STD DEV	60241.543	48255.199	25802.219	13054.762	9345.148	7592.660	6724.043	7153.102	5519.836	4002.78
SKEWNESS	1.701	1.574	1.328	.732	1.578	.567	.106	.250	-.003	.30
SE OF SKEW	.717	.717	.717	.717	.717	.717	.717	.717	.717	.71
SER CORR	-.059	-.026	.021	.118	.085	.237	.372	.289	.351	.22
C OF VAR	.538	.522	.389	.262	.238	.247	.255	.295	.266	.28

LOGS

MEAN OF	5.005	4.924	4.797	4.686	4.585	4.477	4.408	4.367	4.304	4.13
VAR OF	.039	.037	.022	.012	.009	.011	.013	.017	.014	.01
STD DEV OF	.197	.192	.149	.110	.093	.105	.114	.132	.119	.12
SKEW OF	1.076	1.134	1.088	.414	1.203	.302	-.161	-.166	-.198	.04
SE OF SKEW OF	.717	.717	.717	.717	.717	.717	.717	.717	.717	.71
SER CORR OF	.072	.115	.158	.177	.069	.285	.396	.297	.398	.24
C OF VAR OF	.039	.039	.031	.023	.020	.023	.026	.030	.028	.03

STATISTICS OF MONTHLY MEANS, 1898-1906

STATISTICS OF LOGS OF MONTHLY MEANS, 1898-1906

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	11340.	12440.	1.284	.9114	7.336	.387	3.916	.4503	-.3687	.1150	8.092	.696
NOV	10210.	5617.	1.643	.5503	6.017	.144	3.958	.2204	.2383	.0557	8.179	.315
DEC	17440.	9154.	.4741	.5249	10.28	.264	4.185	.2386	.0072	.0570	8.649	.404
JAN	14940.	6244.	-.8450	.4179	8.807	.768	4.124	.2470	-1.314	.0599	8.522	.748
FEB	16780.	9810.	.0074	.5845	9.894	.693	4.127	.3510	-1.153	.0850	8.529	.678
MAR	13720.	13720.	.7572	.4414	18.32	.436	4.455	.1915	.0430	.0430	9.207	.412
APR	22680.	8964.	-.1513	.3952	13.37	.330	4.319	.1986	-.8039	.0450	8.926	.478
MAY	11600.	9109.	1.383	.7856	6.835	.232	3.959	.3142	.4557	.0794	8.182	.490
JUN	8694.	6102.	.7267	.7018	5.125	.440	3.834	.3293	-.0071	.0859	7.924	.604
JUL	6782.	4099.	1.882	.6043	3.998	.151	3.777	.2181	1.015	.0578	7.805	.313
AUG	8878.	5284.	.9121	.5951	5.234	-.018	3.879	.2657	-.1325	.0685	8.016	.088
SEP	8108.	3668.	-.3187	.4524	4.780	.416	3.856	.2479	-.9901	.0643	7.968	.617

1-4635.00 DELAWARE RIVER AT TRENTON, N. J.

Location.--Lat 40°13'18", long 74°46'42", 450 ft upstream from Calhoun Street Bridge.

Drainage area.--6,780 sq mi.

Remarks.--Regulation reduces flood peaks and augments low flow. Diversions significant at low flow prior to November 1935 and since December 1953.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS	
1913				9	27	33	17	7	16	14	14	19	22	23	21	27	21	13	13	20	14	14	7	6	2	2	1	1				2					4534430.0
1914		7	5	5	5	18	23	12	32	32	60	19	24	11	18	19	15	11	12	9	5	6	5	1	7	2					1	1				4270340.0	
1915		7	24	7	13	12	11	25	10	21	19	49	24	27	11	21	15	7	13	14	10	7	6	4	3	2	1	2								3744420.0	
1916				3	4	15	24	21	25	16	27	19	25	42	31	18	19	17	17	11	11	7	7	1	2	1	2	1								4622360.0	
1917				16	8	28	12	14	40	13	31	34	19	28	29	25	23	16	6	4	6	4	3	3	1		2									3804440.0	
1918			5	5	33	35	29	20	39	18	16	16	10	18	16	18	8	17	7	11	10	11	8	8	3	3	1									3726590.0	
1919					5	12	39	48	26	25	22	24	25	29	19	23	28	23	9			1	5	2												3981340.0	
1920					8	36	33	30	26	32	30	29	12	21	18	16	18	17	5	5	4	3	4	10	4	3	1	1								4837760.0	
1921				9	10	22	21	9	25	18	17	29	30	24	13	21	18	22	18	16	14	11	4	6	2	4	1		1							4323990.0	
1922				1	6	28	24	11	31	27	20	27	23	26	16	19	17	11	14	14	14	19	9	3	2	1			1	1						4261500.0	
1923		2	42	49	29	25	24	4	13	21	14	23	16	18	9	8	11	11	13	10	5	3	4	7			2	1	1						2904090.0		
1924			6	20	25	21	18	8	18	22	24	23	19	13	17	18	33	12	20	9	13	8	7	5	3	1		2					1			4051970.0	
1925				10	10	14	33	46	28	27	15	10	18	35	17	29	10	29	6	8	5	3	4	2			1	1		1	2	1				3542340.0	
1926				8	6	19	26	12	24	27	28	29	11	29	29	19	17	19	18	22	5	8	5	3	1											3684630.0	
1927					8	4	12	15	26	25	34	35	30	46	33	34	18	11	10	2	9	5	3			3	1			1						4804650.0	
1928					3			6	2	1	18	20	30	42	35	49	41	29	25	21	17	9	6	5	2	3	1	1								7249770.0	
1929				3	14	19	18	35	46	44	29	23	19	5	5	12	13	16	13	14	11	5	10	4	3	2		2								3703050.0	
1930				2	13	22	12	10	10	17	19	19	34	42	25	32	26	18	21	11	11	8	9	3	1											3500680.0	
1931				16	29	16	34	33	23	29	21	11	24	14	13	20	14	20	12	8	9	5	7	3	2	2										2856370.0	
1932			9	15	39	19	22	26	18	10	13	25	29	22	15	26	15	19	10	8	6	8	4	4	1	1	1	1								2901000.0	
1933			4	1		7	16	18	9	13	13	20	29	31	38	32	21	25	12	13	12	17	11	8	6	4	2	1			1					5424980.0	
1934				1	4	23	16	24	23	21	34	48	31	30	36	12	17	8	10	9	10	6	1				1									3703750.0	
1935					7	16	17	30	16	29	42	18	23	44	40	34	13	8	10	7	2	3	1	1	1	1	2					1				4430420.0	
1936				2	9	31	35	21	14	15	12	24	27	17	18	25	25	16	14	9	10	6	11	7	6	2	1	1	1	2	1	1	1	1	1	5341490.0	
1937				3	12	13	25	24	29	17	32	20	22	42	25	29	18	14	18	5	9	3	4	1	1											4524010.0	
1938					2	10	11	7	16	33	35	21	39	48	31	37	26	17	9	7	3	4	1	1	5	1					1				5115010.0		
1939				5	12	12	27	25	11	11	16	7	20	22	17	34	24	25	16	11	12	18	12	11	10	3	1	2			1					4619170.0	
1940				2	8	19	37	41	48	29	23	20	19	18	18	8	13	17	9	6	4	4	4	5	7	3	1	1	1		1					4324550.0	
1941		1	9	5	6	7	12	21	34	37	22	28	43	16	28	32	10	15	13	5	7	6	2	2	3	1										3352120.0	
1942			22	8	3	17	12	3	13	20	37	40	29	18	26	24	19	23	19	6	6	6	4	3	2	1	1	2					1			3929570.0	
1943			3	8	15	11	12	10	13	10	6	10	7	19	32	43	29	43	20	15	17	12	9	12	4	3				1	1					5400160.0	
1944			8	28	11	17	20	16	33	26	25	24	26	22	20	14	12	14	14	9	11	4	5	3	3			1								3337440.0	
1945				2	23	14	8	3	2	23	31	20	24	21	36	26	35	22	14	22	12	7	5	6	6	2	1									5388740.0	
1946				1	3	8	10	7	15	18	36	31	35	38	24	26	31	29	11	15	8	7	3	5	2	1	1									4899970.0	
1947					2	30	45	29	34	38	20	13	10	13	33	31	15	12	12	8	13	2	2	2	2				1							4970490.0	
1948					3	26	27	11	32	19	31	33	22	19	23	17	27	18	10	13	11	12	1	2	3	2	2	1				1				4734300.0	
1949				5	14	27	38	29	24	16	11	16	14	15	14	27	33	22	18	15	12	3	3	2	1	1	2			1	1	1				4005500.0	
1950				7	6	16	22	29	28	14	20	25	17	32	40	30	31	14	11	5	6	5	1	1	3			2								4072050.0	
1951				6	22	12	24	15	22	32	28	28	19	15	10	23	29	25	16	11	5	7	4	3	4	1	2	1	1							5389200.0	
1952				3	7	8	21	16	21	30	22	18	23	21	24	31	31	26	19	15	11	8	3	6	2											6594290.0	
1953				13	10	23	41	30	14	13	10	4	4	8	13	12	19	36	27	15	27	19	9	6	4	3	1	2				1	1			5250120.0	
1954				10	47	23	19	10	10	14	27	19	16	23	18	21	22	18	11	11	10	10	4	3												3303690.0	
1955				1	10	20	23	16	10	10	33	16	27	28	22	17	34	20	30	15	11	8	4	5	1	1				1				1	1	4069010.0	
1956							11	14	27	30	29	25	25	31	24	24	35	20	13	19	13	7	8	6	2				1	1						5331660.0	
1957				6	17	23	21	20	10	20	23	30	21	29	24	29	22	19	13	13	5	8	5	1	1	2	1	2								3269350.0	
1958				5	7	4	23	25	23	26	25	22	33	31	13	14	10	9	21	10	14	11	17	13													

1-4635.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

DELAWARE RIVER AT TRENTON, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1913	1900.0 25	1900.0 22	1950.0 20	2060.0 22	2070.0 16	2430.0 17	2560.0 15	2940.0 17	4740.0 21	9850.0 17
1914	1240.0 1	1240.0 1	1310.0 1	1370.0 1	1620.0 4	1670.0 2	1890.0 2	2350.0 5	3150.0 5	11600.0 30
1915	2840.0 43	2940.0 43	3300.0 47	3470.0 46	3940.0 45	5060.0 48	5520.0 45	6360.0 44	7350.0 40	10200.0 20
1916	2000.0 29	2000.0 26	2000.0 23	2230.0 25	2780.0 30	3280.0 31	3530.0 26	3930.0 25	5950.0 29	11800.0 32
1917	2000.0 30	2000.0 27	2000.0 24	2000.0 19	2290.0 22	3220.0 29	3830.0 29	6020.0 42	5580.0 26	11900.0 28
1918	1500.0 15	1570.0 12	1610.0 7	1850.0 14	2190.0 20	2530.0 21	2960.0 22	3610.0 22	4300.0 18	9660.0 13
1919	3000.0 49	3000.0 45	3210.0 43	3360.0 45	3430.0 41	3740.0 37	5980.0 49	7180.0 48	8010.0 44	12800.0 40
1920	3470.0 51	3910.0 51	3950.0 51	4680.0 51	5870.0 52	6620.0 51	8290.0 51	8040.0 51	8510.0 46	14100.0 44
1921	1720.0 18	1900.0 23	1950.0 21	2010.0 20	2160.0 18	2450.0 19	2780.0 21	3220.0 20	3770.0 13	9750.0 15
1922	1400.0 7	1450.0 7	1560.0 6	1610.0 6	1720.0 5	1900.0 4	2130.0 4	2530.0 8	3440.0 9	9760.0 16
1923	1320.0 5	1350.0 4	1420.0 4	1470.0 4	1780.0 8	2180.0 11	2290.0 9	2350.0 6	3350.0 8	9070.0 9
1924	1720.0 19	1780.0 18	1840.0 17	1950.0 18	2250.0 21	2430.0 18	3220.0 24	4100.0 26	5690.0 27	11000.0 33
1925	1990.0 28	2020.0 30	2120.0 28	2420.0 29	3200.0 38	4290.0 42	4990.0 42	5140.0 35	6070.0 32	9930.0 18
1926	1810.0 23	1930.0 25	2050.0 27	2090.0 23	2360.0 24	3130.0 28	3840.0 30	4770.0 33	6090.0 33	12000.0 34
1927	2860.0 44	3070.0 46	3230.0 45	3770.0 49	5060.0 50	6240.0 50	7240.0 50	7790.0 50	9760.0 49	15300.0 50
1928	2900.0 45	3160.0 47	3210.0 44	3330.0 43	3470.0 43	3920.0 38	4200.0 36	4890.0 34	6650.0 37	14000.0 45
1929	1780.0 22	1850.0 21	2020.0 25	2230.0 26	2670.0 27	2930.0 24	3310.0 25	3900.0 24	5740.0 28	11700.0 31
1930	1540.0 16	1650.0 16	1670.0 13	1690.0 7	1740.0 6	1960.0 6	2160.0 5	2230.0 3	2630.0 3	5750.0 2
1931	1440.0 8	1520.0 8	1660.0 11	1810.0 13	1890.0 11	2010.0 8	2220.0 7	2540.0 9	4520.0 19	9150.0 10
1932	1250.0 3	1320.0 3	1340.0 2	1370.0 2	1580.0 2	2070.0 10	2520.0 13	3810.0 23	6000.0 30	11400.0 27
1933	2300.0 35	2620.0 38	2770.0 37	2840.0 35	3160.0 37	3650.0 33	4800.0 39	6740.0 47	9920.0 50	12600.0 39
1934	2250.0 33	2470.0 34	2690.0 34	3030.0 42	3330.0 40	4050.0 41	4600.0 37	5530.0 37	7760.0 43	12400.0 36
1935	2120.0 31	2250.0 31	2390.0 31	2420.0 30	2690.0 28	3720.0 36	4130.0 35	6460.0 46	7740.0 42	15100.0 48
1936	1920.0 27	2010.0 28	2240.0 29	2440.0 31	2740.0 29	3100.0 26	3080.0 23	3380.0 21	4590.0 20	10900.0 26
1937	2970.0 47	3180.0 48	3400.0 48	3540.0 47	4040.0 48	6110.0 49	5680.0 46	6360.0 45	8800.0 47	12800.0 39
1938	4010.0 53	4120.0 53	4540.0 52	4770.0 52	5940.0 53	8380.0 53	9920.0 53	12200.0 53	12900.0 53	15700.0 51
1939	1480.0 12	1530.0 9	1740.0 9	1890.0 15	2070.0 17	2500.0 20	2580.0 17	2780.0 13	3850.0 15	7680.0 5
1940	2530.0 39	2790.0 41	2800.0 39	2920.0 37	3280.0 39	4420.0 44	5740.0 47	5590.0 38	7400.0 41	13700.0 43
1941	1390.0 6	1420.0 5	1490.0 5	1550.0 5	1620.0 3	1800.0 3	2260.0 8	2550.0 10	3310.0 7	7960.0 7
1942	3900.0 52	4100.0 52	4600.0 53	5290.0 53	5790.0 51	8210.0 52	8530.0 52	9500.0 52	12300.0 52	15900.0 52
1943	1460.0 9	1640.0 15	1780.0 16	1880.0 15	1900.0 12	2200.0 12	2560.0 14	3140.0 19	6070.0 31	10200.0 21
1944	1460.0 10	1570.0 13	1670.0 12	1760.0 11	1830.0 10	2110.0 14	2710.0 19	2780.0 14	3840.0 14	10400.0 23
1945	5800.0 54	6330.0 54	6570.0 54	7830.0 54	7970.0 54	11800.0 54	12100.0 54	14100.0 54	14100.0 54	16600.0 53
1946	2220.0 32	2450.0 33	2790.0 38	3000.0 40	3440.0 42	4660.0 46	4970.0 41	4750.0 32	5360.0 24	10300.0 22
1947	2520.0 38	2710.0 39	2840.0 40	2930.0 38	3070.0 35	4000.0 40	5450.0 43	7490.0 49	7240.0 39	15200.0 49
1948	2280.0 34	2350.0 32	2560.0 32	2780.0 33	2950.0 32	3100.0 27	3730.0 28	4280.0 28	5520.0 25	13500.0 41
1949	1840.0 24	1910.0 24	2020.0 26	2330.0 28	2640.0 26	2700.0 22	2720.0 20	2970.0 18	3450.0 10	9520.0 12
1950	2440.0 37	2510.0 35	2720.0 35	2900.0 36	3110.0 36	3680.0 34	4020.0 33	4390.0 31	6440.0 36	14900.0 46
1951	2900.0 46	2980.0 44	3260.0 46	3340.0 44	4030.0 47	4620.0 45	5460.0 44	6200.0 43	6900.0 38	15100.0 47
1952	2550.0 41	2720.0 40	2900.0 41	2950.0 39	3020.0 33	3710.0 35	5810.0 48	6000.0 41	9180.0 48	17600.0 54
1953	1720.0 20	1800.0 20	1870.0 18	1930.0 17	2020.0 15	2360.0 15	2400.0 11	2740.0 12	3920.0 16	10700.0 24
1954	1480.0 13	1560.0 11	1640.0 10	1710.0 9	1780.0 7	1930.0 5	2410.0 12	2450.0 7	4050.0 17	9350.0 11
1955	1620.0 17	1750.0 17	1890.0 19	2040.0 21	2170.0 19	3060.0 25	3700.0 27	5680.0 40	10700.0 51	13600.0 42
1956	3200.0 50	3280.0 49	3400.0 49	3690.0 48	4000.0 46	4710.0 47	4840.0 40	5610.0 39	6330.0 34	11600.0 29
1957	1500.0 14	1640.0 14	1700.0 14	1810.0 12	1900.0 13	2050.0 9	2160.0 6	2310.0 4	2940.0 4	9730.0 14
1958	2430.0 36	2540.0 36	2570.0 33	2710.0 32	3040.0 34	3490.0 32	3940.0 31	4280.0 29	6370.0 35	12000.0 35
1959	2630.0 42	2840.0 42	2960.0 42	3020.0 41	3820.0 44	3930.0 39	4040.0 34	4160.0 27	5340.0 23	10700.0 25
1960	3000.0 48	3400.0 50	3680.0 50	3910.0 50	4200.0 49	4400.0 43	4740.0 38	5250.0 36	8140.0 45	12600.0 37
1961	2540.0 40	2600.0 37	2760.0 36	2830.0 34	2850.0 31	3280.0 30	4010.0 32	4340.0 30	4820.0 22	10100.0 19
1962	1910.0 26	2020.0 29	2240.0 30	2320.0 27	2450.0 25	2710.0 23	2660.0 18	2850.0 16	3630.0 11	8330.0 8
1963	1300.0 4	1450.0 6	1630.0 9	1710.0 10	1910.0 14	2240.0 13	2350.0 10	2610.0 11	3180.0 6	7830.0 6
1964	1460.0 11	1530.0 10	1620.0 8	1690.0 8	1820.0 9	1980.0 7	2050.0 3	2150.0 2	2450.0 2	6100.0 3
1965	1240.0 2	1290.0 2	1350.0 3	1380.0 3	1550.0 1	1650.0 1	1730.0 1	1940.0 1	2330.0 1	5490.0 1
1966	1730.0 21	1790.0 19	1970.0 22	2200.0 24	2330.0 23	2430.0 16	2570.0 16	2840.0 15	3680.0 12	7070.0 4

MEAN	2181.111	2309.444	2452.778	2631.667	2936.481	3574.074	4072.407	4709.258	6033.887	11382.961
VARIANCE	727741.875	858283.750	969177.625	1321034.000	1689023.000	3602024.000	4427654.000	6058515.000	7270327.000	7854794.000
STD DEV	853.078	926.436	984.468	1149.362	1299.624	1897.900	2104.199	2461.405	2696.354	2802.641
SKEDNESS	1.778	1.856	1.754	2.154	1.720	2.207	1.742	1.703	1.027	.052
SE OF SKEW	.325	.325	.325	.325	.325	.325	.325	.325	.325	.325
SER CORR	-.014	.007	.030	.010	.009	.029	.031	-.006	.017	.196
C OF VAR	.391	.401	.401	.437	.443	.531	.517	.523	.447	.246

LOGS

MEAN OF	3.312	3.335	3.361	3.388	3.434	3.508	3.564	3.624	3.740	4.042
VAR OF	.022	.023	.024	.026	.028	.036	.038	.041	.036	.013
STD DEV OF	.150	.153	.154	.161	.167	.189	.195	.202	.189	.114
SKEW OF	.618	.630	.603	.707	.663	.766	.562	.426	.071	-.634
SE OF SKEW OF	.325	.325	.325	.325	.325	.325	.325	.325	.325	.325
SER CORR OF	.047	.068	.090	.084	.081	.098	.124	.108	.127	.281
C OF VAR OF	.045	.046	.046	.047	.049	.054	.055	.056	.050	.028

1-4635.00 DELAWARE RIVER AT TRENTON, N. J.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	1076.879	1127.163	1182.100	1256.050	1342.047	1500.902	1554.755	1655.003	2045.397	5309.87
20.00	1242.667	1302.017	1372.102	1445.742	1563.624	1753.190	1892.795	2082.928	2713.168	6859.52
10.00	1356.458	1422.547	1502.568	1579.307	1718.956	1936.493	2130.917	2381.060	3160.215	7770.53
5.00	1525.156	1601.869	1696.144	1781.312	1953.372	2221.198	2492.746	2830.109	3808.092	8940.96
2.00	1978.310	2086.549	2217.173	2342.458	2603.343	3051.251	3512.021	4075.159	5470.723	11331.19
1.25	2698.030	2863.090	3047.589	3275.691	3683.780	4532.816	5250.789	6148.008	7916.613	13808.09
1.11	3240.502	3452.607	3675.442	4005.919	4529.484	5762.988	6641.855	7770.402	9631.840	15088.62
1.04	4005.190	4288.523	4562.746	5067.434	5759.359	7642.824	8700.723	10125.129	11898.809	16413.40
1.02	4635.348	4981.020	5295.609	5966.668	6801.508	9308.484	10471.988	12114.020	13656.355	17236.32
1.01	5319.949	5736.523	6093.199	6965.629	7959.426	11227.703	12463.316	14315.656	15470.887	17949.02

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DELAWARE RIVER AT TRENTON, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1913	132000.0 7	110000.0 4	69900.0 8	47700.0 11	37600.0 9	28900.0 11	23300.0 18	23300.0 10	19600.0 11	12400.0 20
1914	136000.0 5	114000.0 3	79500.0 3	59800.0 3	44700.0 4	32800.0 5	25000.0 15	21800.0 15	17300.0 23	11600.0 26
1915	79000.0 34	56500.0 37	40200.0 41	37400.0 42	30200.0 31	27900.0 14	21000.0 26	18800.0 25	14500.0 38	10300.0 35
1916	84400.0 28	80500.0 21	64000.0 13	47400.0 12	38800.0 7	26200.0 23	22000.0 22	20900.0 21	18600.0 13	12600.0 18
1917	81000.0 32	70700.0 29	56100.0 22	45000.0 13	31600.0 26	22000.0 33	19000.0 35	18000.0 30	15100.0 35	10400.0 34
1918	70300.0 38	53400.0 41	42900.0 39	40800.0 22	34400.0 14	27600.0 18	24400.0 16	21000.0 20	15300.0 32	10200.0 36
1919	52300.0 48	44000.0 48	33600.0 48	26500.0 51	23500.0 46	20900.0 36	19700.0 30	16800.0 36	15100.0 33	10900.0 31
1920	98000.0 23	89300.0 16	74600.0 7	62700.0 3	55900.0 2	37600.0 2	28200.0 4	22900.0 11	18600.0 14	13700.0 14
1921	89300.0 26	71000.0 27	55100.0 25	44000.0 14	33200.0 20	25000.0 25	21300.0 25	18800.0 26	18200.0 15	11800.0 24
1922	98400.0 22	64500.0 34	47800.0 35	37000.0 33	31200.0 27	27200.0 22	22100.0 21	20800.0 22	16500.0 28	11700.0 25
1923	73400.0 37	55600.0 38	44400.0 37	38800.0 29	33900.0 23	31900.0 17	24500.0 26	20900.0 27	17100.0 34	11600.0 30
1924	121000.0 8	91600.0 14	61000.0 14	42300.0 19	33100.0 21	27300.0 21	21800.0 23	18100.0 29	18000.0 19	11100.0 29
1925	110000.0 16	89600.0 15	59700.0 17	42400.0 18	31000.0 28	23700.0 28	19200.0 33	16800.0 35	12900.0 50	9710.0 40
1926	46900.0 50	41500.0 50	32100.0 51	23800.0 53	22100.0 51	20000.0 40	17400.0 43	15500.0 45	15100.0 34	10100.0 17
1927	103000.0 19	82400.0 20	55600.0 23	38300.0 31	28300.0 35	21600.0 34	18800.0 36	17400.0 32	16800.0 25	13200.0 15
1928	106000.0 18	85400.0 18	59900.0 15	39900.0 25	35400.0 12	32900.0 4	28000.0 5	23900.0 7	21500.0 6	19800.0 10
1929	81800.0 30	70800.0 28	50400.0 31	39300.0 28	32500.0 23	29100.0 9	21600.0 12	21600.0 16	16500.0 26	10100.0 38
1930	43000.0 51	36700.0 53	31200.0 52	25200.0 52	22800.0 49	19000.0 45	15600.0 51	15400.0 47	13700.0 41	9590.0 41
1931	50800.0 49	45600.0 47	38800.0 44	32600.0 41	24700.0 41	20400.0 38	17500.0 41	15700.0 43	12800.0 52	7830.0 53
1932	61500.0 43	53600.0 40	43500.0 38	35800.0 35	26500.0 37	18800.0 48	16300.0 48	15300.0 48	12900.0 51	7930.0 51
1933	136000.0 6	107000.0 5	64600.0 12	42200.0 20	34300.0 15	25900.0 24	21600.0 24	18700.0 27	17900.0 21	14900.0 30
1934	64800.0 41	46000.0 46	30200.0 53	28500.0 47	25300.0 40	20200.0 39	17300.0 44	15300.0 49	13400.0 43	10100.0 39
1935	110000.0 17	73500.0 25	45300.0 36	29100.0 45	22300.0 50	18400.0 50	16800.0 46	16500.0 38	15500.0 30	12100.0 22
1936	214000.0 2	174000.0 2	121000.0 1	101000.0 1	68100.0 1	44600.0 1	33000.0 1	28000.0 1	24500.0 2	14600.0 0
1937	60500.0 44	47200.0 44	39400.0 42	31900.0 42	25900.0 38	21300.0 35	19600.0 31	20100.0 23	18200.0 16	12400.0 21
1938	114000.0 13	86600.0 17	56900.0 21	32700.0 40	22900.0 47	18500.0 49	17700.0 39	15900.0 42	15400.0 31	14000.0 11
1939	94200.0 24	57800.0 23	37800.0 19	39900.0 26	30600.0 30	28700.0 12	25700.0 13	21900.0 13	20600.0 8	12700.0 17
1940	143000.0 3	104000.0 6	76400.0 6	69700.0 2	53800.0 3	36200.0 3	29800.0 2	24700.0 5	18100.0 17	11800.0 23
1941	53000.0 47	47200.0 45	38900.0 43	30900.0 44	23900.0 44	17100.0 52	14600.0 53	15000.0 50	14000.0 39	9180.0 44
1942	139000.0 4	96200.0 10	57400.0 20	36400.0 38	24400.0 42	19000.0 46	19500.0 32	17400.0 33	14900.0 36	10800.0 32
1943	102000.0 20	83800.0 19	55600.0 24	35300.0 36	29500.0 33	22800.0 30	22700.0 20	21900.0 14	20500.0 9	14800.0 4
1944	69600.0 40	52000.0 42	36200.0 46	28000.0 48	23700.0 45	22800.0 31	18400.0 37	15500.0 46	13100.0 47	9120.0 45
1945	75600.0 36	65400.0 33	53800.0 27	40800.0 23	38800.0 8	27900.0 15	25200.0 14	22600.0 12	21600.0 5	14800.0 5
1946	79200.0 33	66300.0 31	52800.0 29	40800.0 24	30100.0 32	19600.0 41	19100.0 34	17900.0 31	16500.0 27	13400.0 13
1947	86600.0 27	71200.0 26	49800.0 33	35000.0 37	31800.0 25	28400.0 13	26700.0 9	23400.0 9	20500.0 10	13600.0 12
1948	112000.0 14	96000.0 11	79300.0 4	56300.0 6	42400.0 5	31700.0 8	27600.0 7	24600.0 6	19200.0 12	12900.0 16
1949	121000.0 9	97400.0 9	64900.0 10	54200.0 7	35900.0 11	27600.0 19	23100.0 19	21200.0 18	18000.0 20	11000.0 30
1950	76600.0 35	62900.0 36	48000.0 34	43300.0 16	32400.0 24	24200.0 27	20800.0 28	18700.0 28	17000.0 24	11200.0 27
1951	121000.0 10	93900.0 12	64800.0 11	51600.0 9	35200.0 13	29000.0 10	27700.0 6	25300.0 3	23500.0 4	14800.0 6
1952	81300.0 31	65600.0 32	50200.0 32	44000.0 15	37100.0 10	32300.0 6	29700.0 3	26100.0 2	24600.0 1	18000.0 2
1953	118000.0 12	93200.0 13	59100.0 18	39400.0 27	32700.0 22	27800.0 16	25900.0 11	25100.0 4	24400.0 3	14400.0 9
1954	42000.0 52	37700.0 52	32800.0 50	27200.0 49	20800.0 53	16900.0 53	17800.0 38	16000.0 41	14700.0 37	9050.0 46
1955	279000.0 1	177000.0 1	96900.0 2	57500.0 5	33800.0 18	19300.0 44	14900.0 52	13700.0 52	13400.0 44	11100.0 28
1956	121000.0 11	98400.0 7	67000.0 9	43200.0 17	34200.0 16	27300.0 20	23800.0 17	21000.0 19	17700.0 22	14600.0 7
1957	69700.0 39	63400.0 35	51800.0 30	36400.0 34	25300.0 39	19500.0 42	16500.0 47	15600.0 44	13800.0 40	8960.0 47
1958	98800.0 21	79400.0 22	59800.0 16	48300.0 10	39600.0 6	31800.0 7	27500.0 8	23700.0 8	20900.0 7	12500.0 19
1959	55700.0 46	43700.0 49	33500.0 49	27000.0 50	21300.0 52	18300.0 51	16200.0 49	14900.0 51	13200.0 46	9250.0 43
1960	112000.0 15	98300.0 8	78700.0 5	53500.0 8	33800.0 19	23200.0 29	20000.0 29	19300.0 24	18100.0 18	14200.0 10
1961	89700.0 25	74000.0 24	53100.0 28	41500.0 21	30800.0 29	27800.0 17	26000.0 10	21600.0 17	16000.0 29	10800.0 33
1962	58600.0 45	49800.0 43	35600.0 47	33300.0 39	28100.0 36	22300.0 32	17400.0 42	16300.0 39	12900.0 48	8000.0 49
1963	82700.0 29	67000.0 30	54200.0 26	38500.0 30	28600.0 34	19500.0 43	15600.0 50	13200.0 53	11500.0 53	7880.0 52
1964	62300.0 42	54200.0 39	42600.0 40	31700.0 43	22800.0 48	20600.0 37	17100.0 45	16600.0 37	13300.0 45	8180.0 48
1965	32800.0 54	29900.0 54	26000.0 54	17700.0 55	13600.0 55	10800.0 55	10500.0 55	9030.0 55	7440.0 55	4710.0 55
1966	30900.0 55	26900.0 55	22800.0 55	19200.0 54	17900.0 54	14600.0 54	12700.0 54	11800.0 54	9460.0 54	6280.0 54
1967	41500.0 53	38300.0 51	36400.0 55	28500.0 46	24300.0 43	18900.0 47	17500.0 40	16000.0 40	12900.0 49	9390.0 42

1-4635.00 DELAWARE RIVER AT TRENTON, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	92112.687	73638.125	53343.633	40352.727	31407.270	24512.727	21150.906	18989.633	16532.727	11416.727
VARIANCE	1.802x10 ⁹	8.869x10 ⁸	3.207x10 ⁸	1.820x10 ⁸	8.682x10 ⁷	3.816x10 ⁷	2.318x10 ⁷	1.562x10 ⁷	1.350x10 ⁷	7.747x10 ⁶
STD DEV	42453.996	29780.512	17908.109	13491.520	9317.984	6177.398	4814.082	3952.755	3674.469	2783.346
SKEWNESS	1.912	1.339	1.147	1.852	1.523	.674	.279	.083	.275	.379
SE OF SKEW	.322	.322	.322	.322	.322	.322	.322	.322	.322	.322
SER CORR	-.026	-.048	-.077	-.044	-.049	.067	.131	.222	.314	.292
C OF VAR	.461	.404	.336	.334	.297	.252	.228	.208	.222	.244

LOGS

MEAN OF	4.925	4.835	4.704	4.585	4.480	4.376	4.314	4.269	4.207	4.044
VAR OF	.035	.029	.020	.018	.015	.012	.010	.009	.010	.012
STD DEV OF	.186	.170	.142	.133	.121	.110	.101	.095	.100	.111
SKEW OF	-.024	-.057	-.048	.201	.176	-.234	-.296	-.569	-.548	-.617
SE OF SKEW OF	.322	.322	.322	.322	.322	.322	.322	.322	.322	.322
SER CORR OF	.083	.041	.000	.073	.067	.156	.187	.258	.360	.374
C OF VAR OF	.038	.035	.030	.029	.027	.025	.023	.022	.024	.027

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	30743.125	27050.520	23356.730	19721.492	16425.285	12629.246	11397.621	10240.414	8601.684	5464.457
1.05	41388.812	35677.211	29406.863	23650.652	19416.961	15418.582	13786.676	12575.859	10672.848	6992.621
1.11	48465.230	41290.527	33214.945	26152.809	21291.445	17082.023	15188.387	13910.012	11868.141	7886.789
1.25	58635.773	49217.039	38455.781	29643.637	23871.840	19268.598	17005.629	15592.953	13387.965	9032.430
2.00	84257.500	68588.437	50750.160	38085.008	29970.105	23999.719	20843.918	18953.934	16462.625	11365.555
5.00	120776.750	95083.562	66726.125	49644.840	38061.840	29478.547	25136.668	22377.258	19648.617	13781.141
10.00	145646.000	112551.187	76874.812	57360.070	43329.211	32645.434	27547.816	24139.785	21311.273	15031.750
25.00	177702.437	134517.562	89304.500	67215.875	49930.059	36251.836	30233.641	25967.457	23052.520	16328.453
50.00	201990.062	150809.062	98323.500	74652.250	54828.184	38706.234	32026.137	27108.547	24149.156	17136.047
100.00	226599.875	167047.187	107168.750	82180.000	59722.902	40996.250	33673.297	28102.672	25110.840	17837.184

STATISTICS OF MONTHLY MEANS, 1913-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	6283.	5263.	2.429	.8377	4.582	.386
NOV	10220.	6830.	.8337	.6682	7.455	.568
DEC	11700.	6543.	.8057	.5592	8.533	.453
JAN	12230.	6508.	.9619	.5319	8.923	.361
FEB	12320.	5787.	1.005	.4698	8.984	.331
MAR	21470.	8986.	1.807	.4185	15.66	-.236
APR	22690.	8644.	.8073	.3810	16.55	.025
MAY	13630.	5430.	.6793	.3983	9.943	.247
JUN	8238.	4139.	1.132	.5025	6.008	.505
JUL	6865.	5393.	2.055	.7855	5.006	.638
AUG	6000.	5052.	2.641	.8419	4.376	.355
SEP	5465.	4466.	2.231	.8172	3.985	.606

STATISTICS OF LOGS OF MONTHLY MEANS, 1913-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	3.693	.2908	.5560	.0788	7.805	.561
NOV	3.903	.3237	-.2883	.0829	8.250	.634
DEC	3.997	.2607	-.3406	.0652	8.449	.605
JAN	4.026	.2415	-.2809	.0600	8.509	.470
FEB	4.045	.2013	-.0519	.0498	8.551	.285
MAR	4.299	.1682	.1019	.0391	9.088	-.257
APR	4.324	.1712	-.3524	.0396	9.140	.045
MAY	4.100	.1765	-.1464	.0430	8.667	.255
JUN	3.867	.2051	.2583	.0531	8.174	.560
JUL	3.739	.2804	.5344	.0750	7.904	.685
AUG	3.676	.2832	.6962	.0771	7.769	.556
SEP	3.641	.2720	.8699	.0747	7.695	.757

1-4640.00 ASSUNPINK CREEK AT TRENTON, N. J.

Location--Lat 40°13'27", long 74°44'58", at Chambers Street Bridge.Drainage area--89.4 sq mi.Remarks--Since February 1954 inflow above station significant at low and medium flows.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS, DAYS
1924									2	6	13	7	13	24	29	21	27	30	23	33	26	27	23	19	12	12	6	8	3		1		1		57471.0	
1925						2	7	8	19	21	37	37	35	42	32	18	24	20	17	18	11	6	1	4	1	1	1	1			1	1	1		30068.0	
1926					1	2	4	5	7	12	31	32	47	53	33	26	29	26	16	12	7	8	3	4	3	2	1	1							29434.0	
1927		1	3	1	1	1			5	7	11	15	23	34	33	39	54	33	28	21	18	15	8	4	4	3	1	2							39678.0	
1928								1	1				1	4	13	43	63	61	26	44	40	22	18	6	9	4	2	6			1	1			59889.0	
1929	3	1	3	1	3	7	5	6	10	7	10	10	18	27	41	46	44	40	17	20	16	7	6	4	6	4			2	1					37020.0	
1930			3	4	5	8	5	7	24	10	10	9	22	34	47	36	36	33	12	20	18	9	6	3	1	1	2								31322.0	
1931			6	8	9	6	7	4	4	16	22	36	48	39	39	32	16	19	16	15	10	1	7	3		2									25246.0	
1932		1	2	7	15	15	12	20	28	28	27	38	37	39	23	20	13	6	8	7	5	3	5	3	2						2				25475.0	
1933			2						1	1	3	3	7	9	12	17	15	26	32	47	48	20	29	24	16	13	15	9	5	5	3	1	2			53911.0
1934						2	2	3	4	6	27	20	31	48	44	31	24	18	17	23	25	11	8	4	3	6	3	1	2	1		1			41919.0	
1935								1	4	13	4	8	24	28	33	46	35	26	31	29	27	15	14	12	2	5	4	2	2						39986.0	
1936									9	17	21	35	25	17	12	32	21	17	16	15	26	14	12	17	19	9	9	16	4	2	1					56819.0
1937									4	6	21	17	41	32	29	19	23	29	18	29	31	14	24	10	13	2	3								47279.0	
1938										5	20	26	30	39	27	50	35	28	29	22	12	15	5	4	2	1	3	2	2	1	4	2	1		59694.0	
1939										18	23	14	22	18	7	18	25	42	30	18	28	21	18	19	11	16	5	6	1	1	3		1		55146.0	
1940									1	5	26	43	38	33	35	22	20	14	25	13	17	23	12	9	7	9	1	5	5	2	1					42479.0
1941								3	15	4	4	23	25	38	14	23	27	44	30	27	21	19	10	13	7	10	2	4			2				42956.0	
1942									18	44	31	38	28	37	28	38	18	11	11	12	8	13	14	6	6	3	1								26597.0	
1943									12	17	15	14	19	16	32	28	27	47	34	18	16	27	14	9	5	4	3	4	2	2					34337.0	
1944						6	10	17	22	19	9	21	20	30	28	28	18	21	20	18	19	12	9	11	6	6	2	3	6	2	1	1	1		42018.0	
1945									1	3	8	42	32	27	26	52	30	32	19	18	17	11	11	12	12	4	6	2							45828.0	
1946										7	9	15	23	50	23	36	49	38	22	27	19	11	9	5	3	6	4	4	3		1	1			48777.0	
1947										2	18	53	42	28	27	45	44	27	18	17	18	6	10	6	3	1									33582.0	
1948											21	6	8	14	6	36	30	32	31	25	43	33	18	23	16	12	5	5	2						56115.0	
1949									3	5	3	16	22	29	42	12	30	16	19	15	32	26	35	16	19	9	7	3			1	1		1	48072.3	
1950										5	1	12	21	37	37	54	57	27	33	16	26	11	4	11	2	3	4	2	2						36629.0	
1951										15	21	21	9	26	34	37	18	25	38	39	26	19	11	8	6	7	2	1	2						39863.0	
1952										3	3		4	8	10	19	24	39	38	31	45	42	22	31	18	10	6	5	3	3		1	1		67568.0	
1953										12	18	17	25	28	17	20	17	13	33	26	33	31	15	18	12	15	6	2	3	3	1				54076.0	
1954						2	1	2	7	6	20	19	25	17	19	16	37	38	39	40	23	19	12	7	6	4	3	1	2						32441.2	
1955							1	10	11	10	2	16	26	28	24	30	28	37	42	23	18	16	10	7	8	6	4	1	3		2		1	1		44277.0
1956										2	12	34	39	23	32	37	27	38	19	21	18	16	14	11	10	2	6	2	1	2					48813.0	
1957									1	8	13	33	23	23	24	16	21	27	26	30	43	14	21	18	9	8	3	2		1	1				31270.0	
1958										5	5	10	13	32	29	42	37	22	33	20	22	23	16	15	10	8	6	9	5		2		1		54916.0	
1959											7	10	25	41	61	40	44	38	32	24	17	15	4	6	1										36534.0	
1960											4	31	30	28	38	36	51	43	29	15	22	11	8	4	4	3	2	3	1	2	1				45235.0	
1961											7	1	14	30	53	47	40	25	38	36	21	14	9	8	6	4	6	3	3						61207.0	
1962											8	15	13	26	47	44	39	45	28	18	23	13	15	10	6	3	2	5	2		3				43565.0	
1963										1	2	3	25	24	29	20	21	35	36	35	27	11	15	16	10	4	7	2	3	1	1	2			33867.0	
1964										1	1	15	25	38	24	25	36	17	19	35	31	24	28	12	9	11	4	6	3	2					35677.0	
1965										1	3	7	9	23	69	37	16	20	16	30	43	24	29	18	6	9	2		1	1					32871.0	
1966						1		5	13	21	25	22	45	38	30	25	20	33	23	14	10	11	6	7	3	3	1	2	3	2		1	1			28310.4
1967												4	9	17	36	37	37	45	31	36	33	24	21	6	11	8	3	1	3	1	3	1	1		1	60930.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16071	100.0	9	18.00	421	15608	97.1	18	99.0	1369	6294	39.2	27	540	133	316	1.0
1	4.00	3	16071	100.0	10	22.00	496	15187	94.5	19	120.0	933	4925	30.6	28	650	85	183	1.1
2	4.80	2	16068	100.0	11	26.00	779	14691	91.4	20	140.0	1048	3992	24.8	29	790	35	98	0.6
3	5.80	18	16066	100.0	12	32.00	982	13912	86.6	21	170.0	872	2944	18.3	30	950	34	63	0.4
4	7.10	19	16048	99.9	13	39.00	1194	12930	80.5	22	210.0	537	2072	12.9	31	1200	11	29	0.2
5	8.50	33	16029	99.7	14	47.00	1202	11736	73.0	23	250.0	497	1535	9.6	32	1400	11	18	0.1
6	10.00	64	15996	99.5	15	56.00	1412	10534	65.5	24	310.0	310	1038	6.5	33	1700	5	7	0.0
7	12.00	124	15932	99.1	16	68.00	1379	9122	56.8	25	370.0	266	728	4.5	34	2000	2	2	0.0
8	15.00	200	15808	98.4	17	82.00	1449	7743	48.2	26	450.0	146	462	2.9					

1-4640.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

ASSUNPINK CREEK AT TRENTON, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1924	20.0 29	32.0 38	34.3 37	38.2 37	39.3 33	50.7 34	57.7 33	65.0 30	77.3 28	147.0 37
1925	11.0 14	14.0 14	18.4 17	19.4 15	21.6 12	26.1 13	29.5 11	29.2 3	34.3 4	69.5 2
1926	9.0 9	12.3 12	18.3 15	20.8 22	26.3 24	29.9 19	37.6 19	43.0 18	60.2 18	96.8 11
1927	5.0 2	6.7 2	15.1 12	18.8 13	37.0 30	44.6 29	55.3 30	70.0 32	87.8 31	143.0 35
1928	29.0 37	44.7 43	49.7 43	58.6 43	65.7 43	71.3 42	73.5 41	80.5 39	89.8 33	124.0 26
1929	4.0 1	5.0 1	9.9 2	13.6 2	18.1 8	20.8 7	31.0 12	44.3 19	57.2 17	106.0 16
1930	6.0 3	7.3 3	12.1 3	14.9 6	18.1 9	19.5 4	23.5 4	26.1 2	31.7 2	54.5 1
1931	8.0 7	9.3 6	13.0 5	18.7 12	21.4 11	26.0 12	26.8 6	31.4 7	44.4 9	78.7 5
1932	6.0 4	7.3 4	14.6 9	15.7 9	19.3 10	23.5 8	27.2 7	34.0 8	42.3 6	110.0 20
1933	14.0 20	20.7 29	25.1 31	27.9 29	33.2 28	44.4 27	62.9 36	81.0 39	89.2 32	126.0 28
1934	10.0 10	14.3 16	23.0 28	24.9 28	28.1 25	29.5 17	41.1 22	53.1 26	93.1 36	127.0 29
1935	13.0 18	18.0 24	22.0 27	24.6 27	30.0 26	51.4 35	57.6 32	57.5 23	65.2 21	152.0 43
1936	15.0 22	17.0 20	19.4 21	20.6 20	22.3 14	25.5 10	28.7 10	37.1 12	55.3 15	127.0 30
1937	20.0 30	20.0 28	21.7 26	24.2 26	23.7 27	44.4 28	50.6 27	52.2 25	77.3 26	108.0 37
1938	31.0 39	31.7 37	33.6 36	37.1 36	42.3 38	73.7 43	123.0 43	129.0 43	155.0 43	203.0 43
1939	18.0 28	18.3 25	19.0 19	19.9 16	24.7 20	30.4 20	47.8 25	48.1 22	53.1 13	95.2 10
1940	17.0 25	17.7 23	19.3 20	22.3 24	24.8 21	33.4 23	54.2 29	78.8 35	91.2 35	146.0 36
1941	14.0 19	14.0 15	14.6 10	15.5 8	16.4 4	20.0 6	27.3 8	30.5 6	44.1 8	89.6 8
1942	16.0 23	17.0 21	18.3 16	19.2 14	22.5 15	28.2 15	32.1 13	36.2 10	39.5 5	88.5 6
1943	12.0 15	12.0 9	13.6 8	14.6 5	15.7 3	17.4 2	21.1 2	30.3 5	46.1 11	90.1 9
1944	9.0 8	9.0 5	9.6 1	10.6 1	11.8 1	16.8 1	28.4 9	40.4 15	69.5 24	125.0 27
1945	21.0 31	23.7 31	29.7 35	35.9 35	40.7 37	66.7 40	72.2 39	86.1 40	103.0 39	129.0 32
1946	24.0 35	24.0 32	24.7 30	28.2 30	37.8 32	42.9 26	45.1 24	45.8 20	65.7 22	102.0 13
1947	22.0 32	22.3 30	23.6 29	24.0 25	24.8 22	33.3 22	41.8 23	46.7 21	73.5 29	128.0 31
1948	37.0 43	37.3 41	37.9 39	38.5 38	39.7 34	47.9 32	52.3 28	65.3 31	90.5 34	168.0 41
1949	14.7 21	15.3 17	15.7 13	18.5 11	25.9 23	32.9 21	34.5 16	40.6 16	44.6 10	89.1 7
1950	18.0 26	19.0 26	20.9 25	28.3 31	45.0 39	62.9 38	71.3 38	89.0 41	95.2 37	123.0 24
1951	18.0 27	19.3 27	20.6 24	21.8 23	22.5 16	36.6 25	35.8 18	39.1 14	56.1 16	134.0 33
1952	36.0 41	37.3 42	38.9 40	38.9 39	40.5 36	53.6 36	94.9 42	114.0 42	128.0 42	181.0 42
1953	16.0 24	17.7 22	20.0 22	20.6 21	22.1 13	23.9 9	32.2 14	42.5 17	54.4 14	104.0 15
1954	7.1 5	9.6 7	13.5 6	15.2 7	16.8 6	27.0 14	35.7 17	51.0 24	62.3 19	107.0 18
1955	11.0 11	12.0 10	13.6 7	13.9 3	16.5 5	34.0 24	38.8 21	53.6 27	108.0 41	142.0 34
1956	23.0 33	26.0 34	29.6 34	33.5 33	37.1 31	44.9 30	48.6 26	49.7 23	62.7 20	102.0 14
1957	11.0 12	12.3 11	15.0 11	15.8 10	16.9 7	19.7 5	21.6 3	23.3 1	29.2 1	112.0 21
1958	37.0 42	37.0 40	39.6 42	43.7 40	56.6 41	68.0 41	72.8 40	76.7 34	87.6 30	123.0 25
1959	27.0 36	28.0 35	28.4 33	35.7 34	40.1 35	47.0 31	61.0 34	71.6 33	72.3 27	110.0 19
1960	30.0 38	30.7 36	35.4 38	44.9 41	50.8 40	55.1 37	61.2 35	79.9 37	106.0 40	150.0 39
1961	34.0 40	35.3 39	38.9 41	46.4 42	58.5 42	64.7 39	69.2 37	79.3 36	102.0 38	149.0 38
1962	23.0 34	24.0 33	26.6 32	29.4 32	33.3 29	50.1 33	56.6 31	64.3 29	67.8 23	120.0 22
1963	11.0 13	13.0 13	16.6 14	20.1 18	23.6 19	26.0 11	26.0 5	29.6 4	33.7 3	75.3 3
1964	13.0 16	16.0 18	18.6 18	19.9 17	22.7 17	29.7 18	37.8 20	38.1 13	51.8 12	98.9 12
1965	13.0 17	16.0 19	20.1 23	20.4 19	23.6 18	29.2 16	33.0 15	36.1 9	42.4 7	75.4 4
1966	7.4 6	10.1 8	12.7 4	14.6 4	15.5 2	18.2 3	21.0 1	36.6 11	71.1 25	122.0 23
MEAN	17.237	19.400	22.446	25.309	29.821	38.181	46.519	54.805	69.826	117.432
VARIANCE	83.072	93.342	88.033	116.038	161.542	262.895	453.564	566.979	745.603	904.229
STD DEV	9.114	9.661	9.383	10.772	12.710	16.214	21.297	23.811	27.306	30.070
SKEWNESS	.732	.796	.980	1.114	.987	.654	1.374	1.116	.848	.473
SE OF SKEW	.361	.361	.361	.361	.361	.361	.361	.361	.361	.361
SER CORR	.293	.063	.013	.060	.160	.051	.015	-.038	-.007	.023
C OF VAR	.529	.498	.418	.426	.426	.425	.458	.434	.391	.256

LOGS

MEAN OF	1.174	1.234	1.317	1.369	1.439	1.544	1.628	1.702	1.812	2.056
VAR OF	.060	.050	.030	.030	.031	.034	.034	.032	.029	.013
STD DEV OF	.244	.224	.174	.172	.177	.184	.185	.178	.170	.114
SKEW OF	-.300	-.239	.214	.358	.203	.071	.276	.262	-.085	-.388
SE OF SKEW OF	.361	.361	.361	.361	.361	.361	.361	.361	.361	.361
SER CORR OF	.329	.147	.084	.087	.177	.104	.078	.035	.054	.089
C OF VAR OF	.208	.182	.132	.126	.123	.119	.114	.105	.094	.056

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	3.570	4.709	8.715	10.310	11.286	13.354	17.190	20.978	25.456	57.203
20.00	5.656	7.084	11.017	12.694	14.367	17.585	21.815	26.461	33.749	71.727
10.00	7.148	8.735	12.547	14.299	16.422	20.402	24.942	30.139	39.140	80.361
5.00	9.391	11.174	14.759	16.646	19.399	24.467	29.530	35.498	46.739	91.634
2.00	15.346	17.492	20.440	22.822	27.075	34.821	41.638	49.474	65.231	115.584
1.25	24.097	26.597	28.884	32.357	38.535	49.909	60.363	70.728	90.327	142.324
1.11	30.040	32.736	34.891	39.374	46.712	60.414	74.130	86.143	106.748	157.221
1.04	37.571	40.509	42.949	49.061	57.703	74.225	93.096	107.151	127.263	173.652
1.02	43.147	46.276	49.289	56.889	66.366	84.885	108.381	123.921	142.385	184.500
1.01	48.669	52.003	55.920	65.255	75.436	95.852	124.670	141.661	157.382	194.375

1-4640.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ASSUNPINK CREEK AT TRENTON, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1924	1810.0 5	1110.0 9	671.0 12	463.0 8	337.0 10	307.0 7	283.0 7	256.0 8	235.0 3	157.0
1925	1540.0 7	1310.0 4	786.0 5	470.0 7	329.0 12	230.0 19	186.0 24	156.0 31	124.0 37	82.0
1926	704.0 36	558.0 35	384.0 35	328.0 30	240.0 29	169.0 39	141.0 40	121.0 42	104.0 43	80.6
1927	723.0 31	526.0 37	360.0 38	253.0 38	190.0 41	169.0 40	158.0 36	153.0 32	133.0 34	109.0
1928	1380.0 12	1080.0 12	702.0 8	437.0 11	296.0 18	278.0 12	235.0 15	212.0 16	199.0 12	164.0
1929	809.0 27	645.0 27	499.0 27	402.0 15	260.0 26	223.0 21	202.0 19	178.0 23	149.0 25	101.0
1930	596.0 39	489.0 39	327.0 40	264.0 36	237.0 30	187.0 31	167.0 31	150.0 34	127.0 36	85.8
1931	492.0 43	394.0 42	265.0 43	180.0 44	136.0 44	121.0 44	106.0 44	102.0 44	96.2 44	69.2
1932	1100.0 18	860.0 18	517.0 24	319.0 31	246.0 28	188.0 41	136.0 41	134.0 39	107.0 42	69.6
1933	1010.0 22	802.0 23	564.0 20	371.0 22	325.0 15	255.0 16	218.0 17	201.0 17	190.0 15	148.0
1934	1230.0 13	965.0 14	587.0 16	352.0 26	250.0 27	203.0 27	187.0 22	172.0 25	151.0 23	115.0
1935	715.0 33	630.0 30	477.0 29	341.0 28	278.0 22	209.0 25	176.0 28	167.0 27	142.0 29	110.0
1936	1060.0 20	853.0 20	610.0 15	558.0 5	457.0 2	340.0 3	301.0 4	272.0 3	252.0 1	155.0
1937	590.0 40	528.0 36	474.0 30	389.0 18	328.0 13	281.0 11	245.0 11	224.0 11	195.0 13	136.0
1938	2830.0 1	2060.0 1	1250.0 1	709.0 1	502.0 1	338.0 4	311.0 2	267.0 4	203.0 10	164.0
1939	1530.0 8	1110.0 10	850.0 3	592.0 3	425.0 3	352.0 1	330.0 1	278.0 2	255.0 4	151.0
1940	1060.0 21	814.0 22	518.0 23	403.0 14	283.0 20	253.0 17	237.0 12	217.0 13	162.0 19	116.0
1941	922.0 24	632.0 29	527.0 22	372.0 21	228.0 33	205.0 26	192.0 21	179.0 22	159.0 20	118.0
1942	495.0 41	358.0 43	315.0 42	274.0 34	232.0 32	184.0 32	166.0 32	141.0 38	112.0 41	77.9
1943	720.0 32	656.0 25	454.0 31	290.0 32	215.0 37	190.0 30	178.0 27	161.0 29	140.0 30	94.1
1944	1530.0 9	1250.0 6	770.0 6	399.0 17	269.0 24	260.0 15	214.0 18	199.0 18	159.0 21	115.0
1945	731.0 30	591.0 32	493.0 28	362.0 24	294.0 19	195.0 29	172.0 29	181.0 20	153.0 22	126.0
1946	1420.0 10	1210.0 7	683.0 9	418.0 12	311.0 17	229.0 20	186.0 23	182.0 19	168.0 17	134.0
1947	495.0 42	452.0 41	381.0 36	253.0 37	222.0 35	180.0 33	166.0 33	148.0 36	135.0 31	92.0
1948	711.0 34	652.0 26	502.0 25	356.0 25	322.0 16	268.0 14	237.0 13	227.0 10	206.0 9	153.0
1949	2030.0 2	1470.0 2	844.0 4	560.0 4	417.0 4	338.0 5	292.0 6	261.0 6	216.0 7	132.0
1950	766.0 29	638.0 28	403.0 33	240.0 40	218.0 36	179.0 34	149.0 39	133.0 40	130.0 35	100.0
1951	779.0 28	592.0 31	409.0 32	281.0 33	227.0 34	217.0 22	198.0 20	179.0 21	166.0 18	109.0
1952	1420.0 11	945.0 16	575.0 19	364.0 23	281.0 21	271.0 13	250.0 10	230.0 9	230.0 6	185.0
1953	982.0 23	880.0 17	680.0 10	478.0 6	362.0 7	306.0 8	273.0 8	263.0 5	238.0 2	148.0
1954	614.0 37	485.0 40	329.0 39	227.0 42	156.0 43	141.0 43	134.0 43	120.0 43	119.0 39	88.9
1955	1880.0 3	1460.0 3	973.0 2	618.0 2	372.0 6	213.0 23	170.0 30	158.0 30	145.0 27	121.0
1956	1170.0 16	1020.0 13	679.0 11	400.0 16	325.0 14	283.0 10	259.0 9	223.0 12	191.0 14	133.0
1957	707.0 35	581.0 33	396.0 34	266.0 35	198.0 39	173.0 36	161.0 35	150.0 35	135.0 32	85.7
1958	1660.0 6	1090.0 11	659.0 13	455.0 9	322.0 5	325.0 6	302.0 3	283.0 1	234.0 5	150.0
1959	391.0 44	326.0 44	258.0 44	198.0 43	180.0 42	149.0 42	135.0 42	125.0 41	121.0 38	100.0
1960	1230.0 14	1110.0 8	625.0 14	376.0 20	235.0 31	201.0 28	181.0 25	177.0 24	149.0 24	124.0
1961	1090.0 19	834.0 21	576.0 18	418.0 13	358.0 8	346.0 2	293.0 5	256.0 7	215.0 8	168.0
1962	1110.0 17	854.0 19	543.0 21	382.0 19	348.0 9	285.0 9	224.0 16	214.0 14	173.0 16	119.0
1963	900.0 25	757.0 24	501.0 26	342.0 27	268.0 25	213.0 24	180.0 26	168.0 26	146.0 26	92.8
1964	600.0 38	496.0 38	325.0 41	238.0 41	210.0 38	170.0 37	165.0 34	166.0 28	142.0 28	97.5
1965	844.0 26	580.0 34	381.0 37	242.0 39	193.0 40	169.0 38	155.0 37	151.0 33	133.0 33	90.1
1966	1220.0 15	960.0 15	579.0 17	335.0 29	273.0 23	174.0 35	149.0 38	145.0 37	114.0 40	77.6
1967	1870.0 4	1260.0 5	721.0 7	451.0 10	333.0 21	250.0 18	235.0 14	214.0 15	201.0 11	167.0

MEAN	1078.773	838.023	555.045	373.318	285.409	231.750	205.341	188.500	164.414	118.20
VARIANCE	252483.312	125071.125	39112.020	13300.148	6429.340	3892.099	3173.507	2366.023	1801.788	949.49
STD DEV	502.477	353.654	197.768	115.326	80.183	62.387	56.334	48.642	42.447	30.81
SKEWNESS	1.234	1.108	1.137	.769	.586	.421	.550	.395	.457	.27
SE OF SKEW	.357	.357	.357	.357	.357	.357	.357	.357	.357	.35
SER CORR	-.114	-.125	.020	.097	.133	.150	.172	.127	.103	.08
C OF VAR	.466	.422	.356	.309	.281	.269	.274	.258	.258	.26

LOGS

MEAN OF	2.991	2.888	2.719	2.552	2.439	2.350	2.297	2.261	2.202	2.05
VAR OF	.037	.032	.022	.018	.015	.014	.014	.013	.012	.01
STD DEV OF	.193	.178	.150	.133	.123	.117	.118	.113	.111	.11
SKEW OF	.146	.042	.045	-.052	-.151	-.012	.084	-.032	.088	-.12
SE OF SKEW OF	.357	.357	.357	.357	.357	.357	.357	.357	.357	.35
SER CORR OF	-.151	-.141	-.008	.065	.085	.143	.173	.132	.135	.13
C OF VAR OF	.064	.062	.055	.052	.050	.050	.051	.050	.051	.05

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	365.544	301.001	237.463	172.727	137.833	119.137	107.176	99.241	89.183	60.16
1.05	480.576	395.021	298.286	214.425	170.425	143.393	127.625	118.860	105.133	73.17
1.11	558.232	457.109	337.167	240.377	190.307	158.249	140.273	130.787	114.931	81.04
1.25	671.740	546.049	391.444	275.776	216.950	178.281	157.487	146.769	128.193	91.54
2.00	968.204	769.651	522.260	357.624	276.583	223.812	197.323	182.709	158.614	114.88
5.00	1416.911	1089.269	699.331	462.014	349.070	280.763	248.561	227.004	197.298	143.07
10.00	1739.675	1308.281	815.833	527.404	392.670	315.992	281.046	254.080	221.614	159.98
25.00	2175.494	1592.561	962.605	606.682	443.866	358.365	320.906	286.355	251.263	179.81
50.00	2520.050	1809.514	1071.835	663.717	479.661	388.666	349.929	309.253	272.737	193.67
100.00	2881.423	2030.750	1181.126	719.291	513.768	418.071	378.502	331.340	293.794	206.88

1-4640.00 ASSUNPINK CREEK AT TRENTON, N. J.

STATISTICS OF MONTHLY MEANS, 1924-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1924-1967

	MEAN	STD DEV	SKREW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKREW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	68.21	50.26	2.568	.7369	4.796	.257	1.757	.2444	.7053	.1391	7.407	.505
NOV	103.7	59.08	1.173	.5695	7.296	.154	1.948	.2501	-.1274	.1284	8.212	.364
DEC	122.7	55.51	.6473	.4522	8.632	.347	2.043	.2103	-.3827	.1030	8.609	.447
JAN	147.5	71.00	1.102	.4815	10.37	.480	2.122	.2025	.0742	.0954	8.946	.523
FEB	179.0	66.56	.6504	.3719	12.59	.036	2.221	.1763	-.7252	.0794	9.361	.040
MAR	201.4	72.25	.9890	.3588	14.16	.096	2.279	.1484	.2759	.0651	9.605	.088
APR	161.2	69.92	.5594	.4338	11.34	.569	2.166	.1928	-.0398	.0890	9.132	.564
MAY	111.7	56.03	.7271	.5018	7.852	.550	1.994	.2204	.0112	.1105	8.406	.550
JUN	77.18	50.53	1.965	.6547	5.428	.462	1.819	.2357	.5908	.1296	7.667	.544
JUL	83.87	77.15	2.247	.9198	5.898	.505	1.781	.3500	.2889	.1965	7.509	.497
AUG	81.86	69.61	2.015	.8504	5.756	.237	1.789	.3267	.2717	.1826	7.541	.446
SEP	83.75	67.28	1.724	.8034	5.889	.095	1.804	.3246	.1495	.1799	7.605	.221

1-4645.00 CROSSWICKS CREEK AT EXTONVILLE, N. J.

Location.--Lat 40°08'15", long 74°36'02", just upstream from highway bridge on Extonville Road.

Drainage area.--83.6 sq mi.

Remarks.--Occasional regulation; probably not significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																				CFS_DAYS
1941					4	21	13	20	20	19	23	37	25	51	44	20	16	13	9	4	8	5	3	3	2			3	1		1					43114.0	
1942			3	7	26	28	50	38	29	31	41	24	20	18	6	9	6	5	7	7	5	2	2	1												31063.0	
1943					17	25	22	16	26	27	32	55	39	27	17	11	13	8	11	3	5	3	1			4	1	1			1				41040.0		
1944			1	19	23	17	19	22	23	31	31	39	25	29	22	9	10	4	4	12	6	3	6	3	4	1	2	1					1			45106.0	
1945								7	38	35	55	26	34	51	22	13	14	13	14	7	9	5	5	7	1	2	4	2	1							55549.0	
1946							12	13	19	35	43	35	42	52	23	21	19	11	12	4	6	3	1	3	2	2	3	2	2							51916.0	
1947						2	16	26	63	29	31	27	45	47	16	13	9	13	9	4	5	2	1	5	1	1									41071.0		
1948						25	23	13	12	32	38	31	37	27	26	24	16	18	12	8	3	5	4	3	5	2	1						1			58168.0	
1949		2		3	19	19	18	30	24	9	27	22	18	37	26	24	23	13	17	9	8	7	2	3	2	1					2				48917.0		
1950		1				12	10	28	30	40	22	59	47	25	33	13	12	9	5	9	5	1	1	3												34120.0	
1951						23	19	31	18	21	19	37	22	31	44	26	17	13	8	7	8	4	6	1	5	2			3							44038.0	
1953						19	23	16	40	23	19	14	21	27	37	27	28	8	13	13	12	6	8	3	2	2	2			2						55287.0	
1954			1	6	24	25	27	19	18	11	51	51	33	28	13	9	13	7	8	2	6	6	3			1	2			1						39272.0	
1955			12	9	8	9	9	20	39	26	25	30	31	46	34	15	14	7	5	8	2	6		4	2	1	1			1		1				38639.0	
1956						5	32	58	22	44	32	27	31	25	27	20	8	6	6	7	4	2	1	1	1	1	1	3	3	1						48285.0	
1957			4	16	36	23	10	25	12	11	15	36	30	40	31	22	15	9	8	6	2	3	4	5	1	1										41180.0	
1958						7	14	17	30	30	37	31	24	29	30	16	24	13	17	3	7	3	7	8	4	3	6	2	2			1				61297.0	
1959				1	7	13	20	25	19	22	44	47	38	32	25	17	15	9	9	5	8	2	1	2	1	3										42295.0	
1960						3	13	17	19	43	13	36	29	39	44	23	22	13	10	10	8	6	4	3	3	3	3					1		1		49711.0	
1961						7	34	9	37	38	43	42	22	29	31	16	13	4	8	5	6	6	5	2	3	2	2	1									61862.0
1962						11	26	34	42	42	39	34	34	24	13	14	8	6	12	7	7	3	2	2	1	2	1			1						47917.0	
1963			2	2	30	16	22	14	32	34	36	38	33	29	19	10	11	9	8	3	3	4	4	1	3	1			1							39216.0	
1964		3	9	27	23	41	30	11	19	12	22	21	29	42	14	13	13	10	6	5	6	4	2	2	1			1								36360.0	
1965				4	41	30	44	32	17	12	19	42	26	35	17	10	8	6	9	6	2	2	1	2												32912.0	
1966		11	12	9	25	46	36	35	14	39	25	22	20	16	13	7	5	8	6	5	3	1	3			1		1		1	1					28055.0	
1967						2	8	26	23	29	51	51	52	26	17	24	14	11	9	6	6	1			1	2	2		3		1					53553.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9495	100.0	9	52.00	762	7501	79.0	18	200.0	243	1218	12.8	27	750	36	84	.8
1	16.00	11	9495	100.0	10	61.00	587	6739	71.0	19	230.0	249	975	10.3	28	870	17	48	.5
2	19.00	30	9484	99.9	11	70.00	908	6152	64.8	20	270.0	166	726	7.6	29	1000	20	31	.3
3	22.00	38	9454	99.6	12	81.00	880	5244	55.2	21	310.0	149	560	5.9	30	1200	3	11	.1
4	25.00	122	9416	99.2	13	94.00	851	4364	46.0	22	350.0	97	411	4.3	31	1300	4	8	.0
5	29.00	360	9294	97.9	14	110.00	931	3513	37.0	23	410.0	79	314	3.3	32	1600	2	4	.0
6	34.00	355	8934	94.1	15	130.00	546	2582	27.2	24	480.0	70	235	2.5	33	1800	2	2	.0
7	39.00	521	8565	90.2	16	150.00	421	2036	21.4	25	560.0	45	165	1.7	34	2100	2	2	.0
8	45.00	547	8048	84.8	17	170.00	397	1615	17.0	26	640.0	36	120	1.3					

1-4645.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

CROSSWICKS CREEK AT EXTONTVILLE, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	22.0 6	22.7 5	27.4 7	28.9 7	30.6 5	33.3 3	36.6 3	41.4 3	53.0 4	88.8 2
1942	26.0 12	29.3 11	32.1 13	35.0 12	40.5 13	53.1 15	56.7 13	59.9 11	63.0 7	105.0 6
1943	30.0 14	30.7 13	32.6 15	33.9 11	35.4 9	37.4 7	43.5 7	71.6 15	79.8 12	111.0 7
1944	23.0 7	24.3 7	25.9 4	26.7 4	32.3 7	44.3 11	49.2 10	57.1 9	85.7 15	142.0 19
1945	46.0 23	49.0 23	58.6 24	62.7 24	71.1 23	79.1 23	80.1 21	91.8 22	121.0 24	146.0 22
1946	38.0 17	40.3 17	40.6 17	42.6 16	50.9 18	62.6 18	62.8 15	63.8 12	85.9 16	116.0 10
1947	38.0 18	40.3 18	42.4 19	43.3 17	45.5 15	47.8 12	66.4 19	76.0 16	101.0 21	144.0 20
1948	43.0 22	44.0 21	44.7 21	46.4 19	49.0 17	54.7 16	63.8 16	80.5 18	95.5 18	165.0 24
1949	20.0 2	22.3 4	28.1 8	29.8 8	39.2 12	51.5 14	51.8 11	55.1 7	58.7 6	94.2 4
1950	20.0 3	30.7 14	32.0 12	38.9 15	47.5 16	63.0 19	62.6 14	66.2 13	73.8 8	118.0 11
1953	30.0 15	31.3 15	32.4 14	35.4 13	38.4 11	40.4 10	54.0 12	55.3 8	74.1 9	114.0 8
1954	23.0 8	25.0 8	27.0 6	29.8 9	32.7 8	39.1 8	44.1 8	66.4 14	82.4 13	118.0 12
1955	20.0 4	20.0 2	20.6 2	21.1 2	23.6 2	36.7 6	45.7 9	58.6 10	77.9 11	114.0 9
1956	41.0 21	41.7 20	44.4 20	50.2 21	54.4 19	71.1 20	78.9 20	99.2 23	100.0 20	135.0 17
1957	23.0 9	23.7 6	26.6 5	27.8 5	31.7 6	36.3 5	37.9 4	41.0 2	48.1 3	129.0 15
1958	40.0 19	47.3 22	49.4 22	55.0 22	71.4 24	87.1 24	97.0 24	102.0 24	116.0 22	142.0 18
1959	27.0 13	29.3 12	30.7 11	37.6 14	41.7 14	50.0 13	64.4 17	77.0 17	84.0 14	120.0 14
1960	31.0 16	32.0 16	34.9 16	44.1 18	56.1 20	62.5 17	65.4 18	81.7 19	119.0 23	164.0 23
1961	50.0 24	50.3 24	53.3 23	59.0 23	67.4 22	75.4 21	82.8 23	89.0 21	96.1 19	144.0 21
1962	40.0 20	40.7 19	41.9 18	47.0 20	58.2 21	76.5 22	80.5 22	88.1 20	94.6 17	135.0 16
1963	23.0 10	28.0 10	29.9 10	32.7 10	37.1 10	39.6 9	41.4 6	45.8 6	53.7 5	92.9 3
1964	20.0 5	20.3 3	21.6 3	24.3 3	25.8 3	29.4 2	38.5 5	42.4 4	47.2 2	95.7 5
1965	26.0 11	26.3 9	28.4 9	28.8 6	29.8 4	34.0 4	34.4 2	35.4 1	41.3 1	70.8 1
1966	16.0 1	16.0 1	17.1 1	19.2 1	21.8 1	26.6 1	29.7 1	45.0 5	75.1 10	118.0 13
MEAN	29.833	31.896	34.275	37.508	43.004	51.312	57.008	66.262	80.287	121.746
VARIANCE	94.406	98.733	110.906	136.660	207.959	299.089	319.650	381.337	521.517	566.521
STD DEV	9.716	9.936	10.531	11.690	14.421	17.294	17.879	19.528	22.837	23.802
SKEWNESS	.566	.434	.655	.536	.584	.537	.458	.205	.058	-.086
SE OF SKEW	.472	.472	.472	.472	.472	.472	.472	.472	.472	.472
SER CORR	.137	.078	.062	.068	.167	.115	.145	.067	.212	.312
C OF VAR	.326	.312	.307	.312	.335	.337	.314	.295	.284	.196

LOGS

MEAN OF	1.453	1.483	1.516	1.554	1.610	1.687	1.735	1.802	1.886	2.077
VAR OF	.019	.019	.018	.019	.021	.021	.019	.018	.017	.008
STD DEV OF	.139	.137	.133	.136	.146	.146	.138	.133	.132	.089
SKEW OF	.188	-.045	-.021	-.069	-.003	.075	-.066	-.234	-.467	-.604
SE OF SKEW OF	.472	.472	.472	.472	.472	.472	.472	.472	.472	.472
SER CORR OF	.136	.082	.089	.097	.221	.196	.232	.156	.263	.326
C OF VAR OF	.096	.092	.088	.088	.090	.086	.079	.074	.070	.043

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	14.089	14.495	16.031	16.987	18.667	22.680	25.580	29.556	34.338	67.750
20.00	17.062	18.074	19.799	21.243	23.472	28.191	32.061	37.614	45.061	82.522
10.00	18.964	20.313	22.148	23.898	26.518	31.706	36.113	42.571	51.578	90.873
5.00	21.628	23.377	25.359	27.525	30.739	36.609	41.660	49.239	60.205	101.318
2.00	28.108	30.508	32.818	35.929	40.770	48.415	54.547	64.197	78.821	121.878
1.25	37.050	39.682	42.408	46.662	54.062	64.411	71.069	82.299	99.804	142.390
1.11	43.052	45.467	48.460	53.386	62.648	74.956	81.450	93.097	111.486	152.769
1.04	50.750	52.517	55.845	61.534	73.307	88.270	94.059	105.661	124.302	163.389
1.02	56.579	57.611	61.188	67.392	81.136	98.202	103.141	114.363	132.703	169.941
1.01	62.494	62.591	66.419	73.096	88.887	108.160	111.998	122.586	140.296	175.595

1-4645.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CROSSWICKS CREEK AT EXTONTVILLE, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	1120.0 17	599.0 20	366.0 23	277.0 17	233.0 15	211.0 13	191.0 14	179.0 13	160.0 13	118.0 14
1942	502.0 25	339.0 26	241.0 26	213.0 24	206.0 21	174.0 20	156.0 20	136.0 23	115.0 25	85.1 25
1943	1250.0 8	721.0 16	430.0 17	255.0 20	194.0 23	183.0 18	176.0 17	164.0 18	147.0 19	112.0 18
1944	2100.0 2	1180.0 2	649.0 5	344.0 11	232.0 16	227.0 11	192.0 12	179.0 14	155.0 16	173.0 12
1945	1130.0 15	862.0 13	653.0 4	461.0 2	316.0 5	230.0 9	207.0 10	210.0 6	182.0 6	152.0 4
1946	1120.0 16	874.0 11	623.0 7	395.0 7	266.0 12	245.0 7	209.0 8	193.0 8	167.0 11	142.0 7
1947	661.0 23	450.0 23	383.0 20	250.0 23	235.0 14	181.0 19	171.0 18	157.0 19	151.0 17	113.0 16
1948	1670.0 4	1090.0 4	672.0 3	402.0 6	322.0 4	252.0 6	223.0 5	224.0 5	207.0 4	159.0 3
1949	1160.0 12	903.0 9	515.0 12	377.0 8	308.0 7	290.0 3	267.0 3	243.0 4	207.0 5	114.0 9
1950	454.0 26	386.0 25	284.0 25	211.0 25	168.0 26	157.0 25	139.0 25	136.0 24	120.0 24	93.5 23
1951	976.0 19	600.0 19	500.0 13	323.0 13	245.0 13	228.0 10	208.0 9	187.0 10	177.0 7	121.0 13
1953	1170.0 11	914.0 8	635.0 6	440.0 4	327.0 3	282.0 4	254.0 4	244.0 3	229.0 3	151.0 5
1954	1140.0 13	756.0 15	400.0 19	254.0 21	223.0 17	168.0 21	156.0 21	139.0 22	137.0 22	108.0 19
1955	1400.0 6	967.0 7	530.0 11	297.0 15	190.0 24	165.0 23	146.0 23	147.0 21	141.0 20	106.0 21
1956	1140.0 14	883.0 10	484.0 14	301.0 14	269.0 11	232.0 8	217.0 6	191.0 9	168.0 10	132.0 10
1957	764.0 20	625.0 18	382.0 21	276.0 18	220.0 18	200.0 16	182.0 16	182.0 12	169.0 8	113.0 17
1958	1680.0 3	1110.0 3	724.0 1	510.0 1	424.0 1	333.0 2	312.0 1	301.0 1	246.0 1	168.0 2
1959	705.0 22	555.0 21	416.0 18	283.0 16	196.0 22	157.0 24	144.0 24	135.0 25	139.0 21	116.0 15
1960	2500.0 1	1420.0 1	723.0 2	416.0 5	275.0 9	211.0 14	191.0 13	186.0 11	159.0 14	136.0 8
1961	1240.0 9	873.0 12	577.0 9	459.0 3	381.0 2	363.0 1	303.0 2	274.0 2	229.0 2	169.0 1
1962	1450.0 5	977.0 6	567.0 10	367.0 10	312.0 6	263.0 5	210.0 7	204.0 7	169.0 9	131.0 11
1963	1030.0 18	703.0 17	480.0 15	332.0 12	279.0 8	217.0 12	185.0 15	174.0 16	155.0 15	107.0 20
1964	764.0 21	526.0 22	370.0 22	254.0 22	216.0 19	188.0 17	170.0 19	170.0 17	151.0 18	99.3 22
1965	537.0 24	434.0 24	308.0 24	202.0 26	179.0 25	167.0 22	155.0 22	151.0 20	130.0 23	90.2 24
1966	1230.0 10	817.0 14	452.0 16	274.0 19	216.0 20	146.0 26	123.0 26	119.0 26	101.0 26	76.9 26
1967	1390.0 7	1030.0 5	591.0 8	368.0 9	272.0 10	209.0 15	193.0 11	175.0 15	165.0 12	147.0 6
MEAN	1164.731	792.077	498.269	328.500	257.846	218.423	195.385	184.615	164.462	123.192
VARIANCE	222722.062	70759.937	18647.371	7245.219	3969.480	2977.047	2234.244	1958.244	1264.417	626.856
STD DEV	471.934	266.007	136.555	85.119	63.004	54.562	47.268	44.252	35.559	25.037
SKEWNESS	.929	.223	-.031	.423	.883	1.019	.983	.964	.649	.152
SE OF SKEW	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR	-.139	-.048	.052	.091	-.013	-.014	-.101	-.054	.018	.119
C OF VAR	.405	.336	.274	.259	.244	.250	.242	.240	.216	.203

LOGS

MEAN OF	3.032	2.873	2.680	2.503	2.400	2.327	2.280	2.255	2.207	2.082
VAR OF	.033	.025	.016	.013	.010	.011	.010	.010	.009	.008
STD DEV OF	.181	.158	.128	.113	.102	.102	.100	.099	.093	.090
SKEW OF	-.327	-.524	-.550	.019	.366	.488	.394	.402	.067	-.264
SE OF SKEW OF	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR OF	-.124	.005	.097	.118	.010	-.007	-.081	-.036	.045	.153
C OF VAR OF	.060	.055	.048	.045	.042	.044	.044	.044	.042	.043

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	370.061	279.465	215.152	174.702	155.143	133.665	119.143	113.211	99.059	71.497
1.05	522.982	390.821	283.252	207.987	175.242	149.302	133.942	127.056	113.807	84.473
1.11	623.127	461.167	324.284	228.321	187.924	159.386	143.310	135.823	122.655	91.990
1.25	763.944	556.747	378.100	255.696	205.484	173.585	156.312	147.997	134.405	101.650
2.00	1100.074	770.251	492.017	317.831	247.428	208.437	187.481	177.196	160.518	121.811
5.00	1534.054	1018.859	616.330	395.527	304.016	257.168	229.729	216.793	192.346	144.093
10.00	1802.822	1159.429	683.465	443.638	341.393	290.268	257.735	243.052	211.706	156.528
25.00	2122.079	1314.585	755.299	501.590	388.822	333.183	293.368	276.471	234.744	170.339
50.00	2346.267	1416.494	801.297	543.100	424.427	366.014	320.184	301.625	251.085	179.542
100.00	2559.818	1508.565	842.099	583.441	460.348	399.633	347.287	327.055	266.854	187.994

STATISTICS OF MONTHLY MEANS, 1941-51; 1953-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1941-51; 1953-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	81.54	40.21	1.446	.4932	5.504	.311d	1.868	.1916	.4574	.1025	7.678	.437d
NOV	120.5	46.51	.2584	.3860	8.132	.163	2.045	.1883	-.7195	.0921	8.405	.411
DEC	135.9	47.81	.2204	.3519	9.170	.440	2.104	.1715	-.7934	.0815	8.644	.524
JAN	149.3	54.78	.7124	.3669	10.08	.375	2.146	.1581	.0358	.0737	8.820	.482
FEB	177.4	49.90	.2149	.2813	11.97	.392	2.231	.1277	-.3749	.0572	9.170	.340
MAR	199.3	65.48	1.106	.3286	13.45	.266	2.279	.1347	.2948	.0591	9.364	.249
APR	155.1	53.55	.5135	.3453	10.47	.670	2.165	.1517	-.0598	.0701	8.898	.584
MAY	122.4	52.93	.8892	.4324	8.262	.374	2.051	.1809	.2450	.0882	8.428	.324
JUN	79.22	40.74	2.250	.5143	5.347	.455	1.859	.1783	.9727	.0959	7.639	.497
JUL	95.07	60.91	1.625	.6407	6.417	.254	1.900	.2671	.0143	.1406	7.808	.328
AUG	87.12	54.74	1.441	.6283	5.881	.178	1.866	.2571	.2072	.1378	7.667	.300
SEP	78.83	57.01	2.188	.7232	5.321	.080	1.820	.2446	.9021	.1344	7.480	.207

d Serial correlation coefficient: computed from non-continuous arrays of monthly mean discharges.

1-4658.50 SOUTH BRANCH RANCOCAS CREEK AT VINCENTOWN, N. J.

Location.--Lat 39°56'22", long 74°45'50", 150 ft downstream from highway bridge on Lumberton-Vincentown Road.

Drainage area.--53.3 sq mi.

Remarks.--Occasional regulation; probably not significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1962										1	2	4	11	5	7	5	12	32	39	51	29	34	23	26	18	16	16	13	11	1	4	2	2	1	36885.0	
1963										4	9	22	15	21	18	22	18	23	27	34	38	30	20	13	17	13	8	6	3	2	2				30803.0	
1964								3	3	19	26	15	31	20	16	8	5	9	7	21	23	29	39	25	16	19	12	6	8	2	3	1			29134.0	
1965								2	3	16	27	12	9	32	31	22	14	10	16	8	18	41	29	24	18	7	12	10	4						21622.2	
1966	2				1	2	7	10	3	8	26	28	55	27	20	30	18	25	16	12	8	16	12	8	6	12	10	1	1			1			17282.5	
1967									1				3	1	4	11	20	29	22	38	56	44	38	36	12	21	7	10	2	2	3		1	3	1	35856.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2191	100.0	9	11.00	56	2139	97.6	18	49.0	115	1303	59.5	27	210	42	104	4.7
1	3.10	2	2191	100.0	10	13.00	70	2083	95.1	19	57.0	167	1188	54.2	28	250	28	62	2.8
2	3.60	0	2189	99.9	11	16.00	65	2013	91.9	20	67.0	191	1021	46.6	29	290	8	34	1.5
3	4.30	0	2189	99.9	12	18.00	154	1948	88.9	21	79.0	190	830	37.9	30	340	12	26	1.1
4	5.00	1	2189	99.9	13	22.00	99	1794	81.9	22	93.0	166	640	29.2	31	400	6	14	.6
5	5.90	2	2188	99.9	14	25.00	90	1695	77.4	23	110.0	133	474	21.6	32	470	3	8	.3
6	7.00	9	2186	99.8	15	30.00	86	1605	73.3	24	130.0	72	341	15.6	33	550	4	5	.2
7	8.20	16	2177	99.4	16	35.00	87	1519	69.3	25	150.0	97	269	12.3	34	650	1	1	.0
8	9.60	22	2161	98.6	17	41.00	129	1432	65.4	26	180.0	68	172	7.9					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

SOUTH BRANCH RANCOCAS CREEK AT VINCENTOWN, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1962	12.0 4	13.3 4	17.3 5	21.3 5	33.9 5	50.3 5	54.1 5	64.2 5	81.0 5	111.0 5
1963	15.0 5	15.7 5	16.4 4	19.3 4	21.3 4	24.2 4	27.1 4	29.9 4	34.4 3	73.1 3
1964	9.1 3	9.3 3	9.7 3	10.7 2	12.2 3	14.0 1	18.8 3	20.6 2	23.5 2	65.7 2
1965	5.0 2	7.8 2	9.1 2	11.0 3	11.9 2	14.3 2	15.5 1	16.5 1	19.5 1	42.4 1
1966	3.1 1	6.8 1	7.7 1	8.3 1	11.5 1	15.3 3	15.8 2	28.9 3	49.8 4	81.8 4

MEAN	8.840	10.580	12.040	14.120	18.160	23.620	26.260	32.020	41.640	74.800
VARIANCE	23.923	14.317	19.908	33.422	94.168	240.197	264.153	355.267	621.863	623.725
STD DEV	4.891	3.784	4.462	5.781	9.704	15.498	16.253	18.849	24.937	24.974
SKEWNESS	.070	.590	.509	.521	1.449	1.871	1.822	1.746	1.191	.348
SE OF SKEW	.913	.913	.913	.913	.913	.913	.913	.913	.913	.913
SER CORR	.693	.552	.758	.739	.927	.933	.995	.489	-.011	-.029
C OF VAR	.553	.358	.371	.409	.534	.656	.619	.589	.599	.334

LOGS

MEAN OF	.881	1.003	1.057	1.121	1.216	1.314	1.366	1.455	1.561	1.853
VAR OF	.079	.024	.025	.031	.043	.056	.052	.050	.062	.023
STD DEV OF	.282	.154	.159	.177	.207	.237	.227	.224	.250	.152
SKEW OF	-.581	.311	.373	.297	1.104	1.481	1.385	1.019	.481	-.508
SE OF SKEW OF	.913	.913	.913	.913	.913	.913	.913	.913	.913	.913
SER CORR OF	.851	.670	.779	.722	.878	.856	.982	.375	-.009	-.102
C OF VAR OF	.320	.153	.151	.158	.170	.181	.166	.154	.160	.082

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SOUTH BRANCH RANCOCAS CREEK AT VINCENTOWN, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1962	648.0 2	536.0 2	372.0 1	263.0 1	228.0 1	198.0 1	157.0 1	151.0 1	125.0 3	101.0 1
1963	450.0 3	370.0 3	292.0 3	242.0 3	189.0 2	151.0 3	131.0 4	136.0 3	129.0 2	84.4 3
1964	406.0 5	357.0 4	263.0 4	200.0 4	181.0 4	154.0 2	135.0 2	140.0 2	131.0 1	79.6 4
1965	240.0 6	208.0 6	185.0 6	148.0 6	127.0 6	113.0 5	111.0 5	108.0 5	91.0 5	59.2 5
1966	412.0 4	290.0 5	220.0 5	158.0 5	135.0 5	92.5 6	91.9 6	91.1 6	70.0 6	47.3 6
1967	645.0 1	540.0 1	357.0 2	244.0 2	184.0 3	143.0 4	131.0 3	121.0 4	114.0 4	98.2 2

1-4658.50 SOUTH BRANCH RANOCAS CREEK AT VINCENTOWN, N. J.
HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	470.167	383.500	281.500	209.167	174.000	141.917	126.150	124.517	110.000	78.283
VARIANCE	26093.750	17635.098	5487.500	2326.565	1404.000	1330.641	495.935	494.962	600.800	455.201
STD DEV	161.536	132.797	74.078	48.234	37.470	36.478	22.270	22.248	24.511	21.335
SKEWNESS	.025	.145	.026	-.347	-.005	.211	-.363	-.492	-1.045	-.520
SE OF SKEW	.845	.845	.845	.845	.845	.845	.845	.845	.845	.845
SER CORR	.086	-.001	.129	.329	.390	.373	.211	.456	.306	.003
C OF VAR	.344	.346	.263	.231	.215	.257	.177	.179	.223	.273

LOGS

MEAN OF	2.649	2.560	2.436	2.310	2.232	2.140	2.095	2.089	2.031	1.878
VAR OF	.026	.025	.014	.011	.009	.013	.006	.007	.012	.017
STD DEV OF	.162	.159	.118	.105	.096	.115	.080	.082	.108	.130
SKEW OF	-.687	-.396	-.300	-.499	-.335	-.357	-.755	-.745	-1.265	-.830
SE OF SKEW OF	.845	.845	.845	.845	.845	.845	.845	.845	.845	.845
SER CORR OF	.090	.046	.157	.313	.351	.319	.175	.411	.254	.005
C OF VAR OF	.061	.062	.049	.046	.043	.054	.038	.039	.053	.069

STATISTICS OF MONTHLY MEANS, 1962-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1962-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	61.12	43.06	.9860	.7044	6.495	.663	1.693	.3175	.0796	.1876	7.875	.800
NOV	78.94	57.79	.8841	.7321	8.388	.389	1.787	.3560	-.2289	.1992	8.312	.647
DEC	90.68	35.29	-1.836	.3892	9.636	.698	1.905	.2752	-2.303	.1444	8.864	.733
JAN	102.2	47.06	.1969	.4604	10.86	.598	1.959	.2499	-1.406	.1275	9.117	.860
FEB	112.1	8.430	1.405	.0752	11.91	.740	2.049	.0317	1.282	.0155	9.531	.551
MAR	138.6	54.94	-.0621	.3964	14.73	-.252	2.110	.1850	-.2514	.0876	9.818	-.241
APR	102.0	41.62	.6385	.4080	10.84	.037	1.979	.1746	.3038	.0882	9.208	-.012
MAY	70.15	28.42	.1873	.4052	7.454	-.157	1.815	.1835	-.0560	.1011	8.442	-.080
JUN	35.71	19.19	1.523	.5375	3.795	-.079	1.506	.2170	.4143	.1441	7.007	.132
JUL	41.75	16.65	-.0252	.3987	4.437	-.052	1.588	.1912	-.5659	.1204	7.388	-.151
AUG	63.59	72.83	1.011	1.145	6.758	.478	1.545	.5092	.8908	.3297	7.186	.497
SEP	44.22	27.30	.4016	.6173	4.699	.586	1.559	.3221	-.5433	.2067	7.251	.616

1-4660.00 MIDDLE BRANCH MOUNT MISERY BROOK IN LEBANON STATE FOREST, N. J.

Location.--Lat 39°55'00", long 74°30'30", 20 ft upstream from North Branch Road Bridge.

Drainage area.--2.73 sq mi.

Remarks.--Unrecorded ground-water underflow past station significant at low flow.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1953	11	2	3	3	5	11	7	5	20	11	15	6	5	9	7	6	14	12	32	35	39	37	29	22	15	3	1									919.4
1954	54	7	4	3	1	4	3	4	10	10	3	5	2	10	12	21	47	53	63	21	11	10	3	1	3											487.8
1955	30	2	4	4	2		1	1	5	25	26	23	23	12	25	22	14	35	48	40	13	8	4			2										376.6
1956			1	1	2	1	2	1	22	12	32	34	13	38	22	16	17	22	24	27	29	31	14	3	1	1										586.2
1957	92	1	3	1	2		1	1	10	8	9	2	10	5	7	16	32	27	72	38	15	10	3													464.1
1958	29		2	1	2	4		4	5	18	4		5	6	1		5	10	6	13	21	45	37	34	41	20	24	12	6						1504.1	
1959		2	8	1	1	1	1	1	7	3	11	10	7	11	15	11	13	12	52	73	57	33	17	10	5	1	2									891.7
1960	9	11	11	9	4	10	3	4	17	11	10	9	14	14	17	5	31	31	42	40	27	21	8	5	2	1										580.5
1961										1	9	10	8	34	28	15	35	30	25	24	28	33	44	20	14	3	3	1								1010.2
1962								3	5	11	21	10	16	36	30	20	26	23	37	30	24	35	22	6	5	2	3									755.2
1963	2	12	5	4	4	12		9	16	12	11	3	5	26	23	18	22	45	47	28	30	16	11	3	1										574.1	
1964	38	4	4	4	2	5	12		9	16	8	5	9	14	14	26	17	14	12	39	25	39	35	9	10										604.8	
1965	45	4	6	4	8	16		1	13	21	15	12	5	8	26	17	5	20	22	51	27	26	11	1	1										422.8	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	310	4748	100.0	9	0.20	132	3935	82.9	18	1.8	537	2088	44.0	27	13	7	7	.1
1	0.01	45	4438	93.5	10	0.30	161	3803	80.1	19	2.3	402	1551	32.7	28				
2	0.02	51	4393	92.5	11	0.40	131	3642	76.7	20	2.8	378	1149	24.2	29				
3	0.03	31	4342	91.4	12	0.50	120	3511	73.9	21	3.5	313	771	16.2	30				
4	0.04	34	4311	90.8	13	0.60	249	3391	71.4	22	4.4	195	458	9.6	31				
5	0.05	72	4277	90.1	14	0.80	226	3142	66.2	23	5.5	122	263	5.5	32				
6	0.07	23	4205	88.6	15	1.00	169	2916	61.4	24	6.8	78	141	3.0	33				
7	0.08	60	4182	88.1	16	1.20	316	2747	57.9	25	8.4	35	63	1.3	34				
8	0.10	187	4122	86.8	17	1.50	343	2431	51.2	26	10.0	21	28	0.6					

1-4660.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MIDDLE BRANCH MOUNT MISERY BROOK IN LEBANON STATE FOREST, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1953	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.3 5	0.5 6	0.9 8	2.0 9
1954	0.0 2	0.0 2	0.0 2	0.0 2	0.0 2	0.1 4	0.3 6	0.5 7	0.6 5	1.3 2
1955	0.0 3	0.0 3	0.0 3	0.0 3	0.0 3	0.2 7	0.4 7	0.4 4	0.5 4	1.1 1
1956	0.1 9	0.1 9	0.2 10	0.2 9	0.3 9	0.9 10	1.0 10	1.0 10	1.2 10	1.9 8
1957	0.0 4	0.0 4	0.0 4	0.0 4	0.0 4	0.0 2	0.0 1	0.0 1	0.0 1	1.6 5
1958	1.8 12	1.9 12	1.9 12	2.0 12	2.3 12	2.4 12	2.6 12	2.8 12	3.4 12	4.5 12
1959	0.0 5	0.0 5	0.0 5	0.0 5	0.0 5	0.1 5	0.2 3	0.4 5	0.8 6	1.6 6
1960	0.0 6	0.0 6	0.0 6	0.1 8	0.1 8	0.3 8	0.5 8	0.7 8	0.9 7	1.9 7
1961	0.2 11	0.2 11	0.2 11	0.3 10	0.4 10	0.5 9	0.7 9	0.8 9	1.1 9	2.5 11
1962	0.1 10	0.1 10	0.1 9	0.3 11	0.8 11	1.2 11	1.3 11	1.5 11	1.5 11	2.3 10
1963	0.0 7	0.0 7	0.0 7	0.0 6	0.0 6	0.1 6	0.2 4	0.2 3	0.4 2	1.4 3
1964	0.0 8	0.0 8	0.0 8	0.0 7	0.0 7	0.0 3	0.1 2	0.1 2	0.4 3	1.4 4

	1 ^a	3 ^a	7 ^a	14 ^a	30 ^a	60 ^a	90 [†]	120 [†]	183 [†]	ANNUAL
MEAN							.691	.809	1.064	1.958
VARIANCE							.537	.589	.721	.812
STD DEV							.733	.767	.849	.901
SKEWNESS							2.056	2.014	2.388	2.276
SE OF SKEW							.661	.661	.661	.637
SER CORR							-.021	-.047	.022	-.105
C OF VAR							1.061	.948	.798	.460

LOGS

MEAN OF							-.343	-.248	-.062	.261
VAR OF							.169	.158	.075	.026
STD DEV OF							.411	.397	.274	.162
SKEW OF							.335	-.183	.787	1.217
SE OF SKEW OF							.661	.661	.661	.637
SER CORR OF							.107	.204	.181	-.021
C OF VAR OF							-1.200	-1.602	-4.435	.621

a Statistics not computed, less than ten non-zero input values.

† Zero flow values excluded in computation of statistics.

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MIDDLE BRANCH MOUNT MISERY BROOK IN LEBANON STATE FOREST, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1953	12.0 3	9.6 4	8.8 3	7.3 2	6.1 3	5.8 3	5.3 3	4.8 3	4.2 3	2.5 3
1954	8.1 8	6.7 8	4.5 10	3.3 11	3.0 10	2.5 12	2.3 12	2.1 12	2.0 12	1.3 10
1955	7.6 9	6.0 11	3.4 13	2.4 13	2.3 13	2.0 13	1.9 13	1.8 13	1.6 13	1.0 13
1956	8.7 7	7.1 7	5.7 6	4.7 7	4.4 6	3.8 6	3.4 7	3.1 7	2.4 9	1.6 7
1957	4.9 13	4.3 13	3.5 12	3.1 12	2.7 12	2.6 11	2.4 11	2.4 11	2.2 10	1.3 11
1958	25.0 1	20.3 1	13.3 1	9.9 1	8.5 1	8.1 1	7.7 1	6.8 1	6.3 1	4.1 1
1959	12.0 4	9.8 3	7.9 4	6.8 4	5.4 5	4.6 5	4.1 4	3.8 4	3.4 4	2.4 4
1960	9.9 6	7.3 6	5.1 9	4.3 9	4.0 9	3.7 7	3.3 8	3.0 8	2.5 7	1.6 8
1961	13.0 2	11.2 2	8.8 2	7.1 3	6.9 2	6.3 2	5.7 2	5.3 2	4.3 2	2.8 2
1962	11.0 5	9.4 5	7.0 5	6.0 5	5.5 4	4.8 4	4.0 5	3.6 5	3.0 5	2.1 5
1963	7.1 10	6.3 9	5.4 7	4.8 6	4.1 7	3.4 9	3.0 9	2.7 9	2.5 8	1.6 9
1964	6.5 11	6.1 10	5.4 8	4.4 8	4.0 8	3.6 8	3.4 6	3.2 6	2.8 6	1.7 6
1965	6.1 12	4.9 12	3.8 11	3.3 10	2.9 11	2.8 10	2.6 10	2.4 10	2.0 11	1.2 12

1-4660.00 MIDDLE BRANCH MOUNT MISERY BROOK IN LEBANON STATE FOREST, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	10.146	8.385	6.354	5.185	4.600	4.154	3.777	3.469	3.015	1.938
VARIANCE	26.306	17.013	7.806	4.553	3.297	3.028	2.639	2.022	1.640	.718
STD DEV	5.129	4.125	2.794	2.134	1.816	1.740	1.624	1.422	1.281	.847
SKEWNESS	2.189	2.199	1.320	.818	.782	1.022	1.294	1.206	1.561	1.481
SE OF SKEW	.616	.616	.616	.616	.616	.616	.616	.616	.616	.616
SER CORR	-.041	-.063	-.052	.033	-.024	-.034	-.078	-.063	-.014	.039
C OF VAR	.506	.492	.440	.412	.395	.419	.430	.410	.425	.437

LOGS

MEAN OF	.967	.887	.769	.682	.632	.586	.544	.510	.449	.255
VAR OF	.033	.031	.031	.031	.029	.030	.030	.027	.027	.029
STD DEV OF	.182	.175	.176	.177	.170	.174	.172	.165	.163	.171
SKEW OF	.863	.988	.450	.056	.087	.241	.467	.453	.729	.603
SE OF SKEW OF	.616	.616	.616	.616	.616	.616	.616	.616	.616	.616
SER CORR OF	-.014	-.054	-.053	.062	.006	.031	-.018	.002	.065	.097
C OF VAR OF	.188	.198	.229	.260	.268	.298	.316	.324	.364	.670

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	4.575	4.045	2.616	1.891	1.773	1.625	1.599	1.518	1.438	.859
1.05	5.234	4.522	3.184	2.472	2.279	2.047	1.932	1.824	1.653	1.014
1.11	5.720	4.885	3.573	2.855	2.610	2.328	2.159	2.032	1.806	1.122
1.25	6.484	5.465	4.148	3.404	3.083	2.736	2.495	2.337	2.038	1.283
2.00	8.740	7.220	5.694	4.785	4.264	3.789	3.396	3.145	2.687	1.728
5.00	12.824	10.472	8.162	6.762	5.945	5.370	4.829	4.408	3.780	2.461
10.00	16.247	13.242	10.029	8.120	7.096	6.503	5.910	5.348	4.642	3.030
25.00	21.521	17.564	12.667	9.887	8.592	8.034	7.435	6.659	5.906	3.852
50.00	26.229	21.466	14.844	11.237	9.734	9.246	8.692	7.729	6.983	4.545
100.00	31.688	26.035	17.210	12.617	10.902	10.519	10.057	8.881	8.187	5.312

STATISTICS OF MONTHLY MEANS, 1953-1965

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	.8438	1.273	2.885	1.509	3.630	.895
NOV	1.240	1.161	1.761	.9365	5.334	.843
DEC	1.602	.7628	.3785	.4762	6.891	.787
JAN	2.108	.7859	-.6518	.3729	9.068	.338
FEB	2.704	.7973	.1924	.2948	11.63	.560
MAR	3.845	1.671	1.159	.4345	16.54	.679
APR	3.617	1.807	.9157	.4997	15.56	.923
MAY	2.582	1.893	1.573	.7331	11.11	.891
JUN	1.419	1.165	1.155	.8212	6.104	.942
JUL	1.054	1.096	1.718	1.040	4.536	.763
AUG	1.245	1.880	2.811	1.510	5.357	.876
SEP	.9860	1.280	1.879	1.298	4.242	.846

STATISTICS OF LOGS OF MONTHLY MEANS, 1953-1965

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
	-.5451	.8598	-1.223	-1.578		
	-.1077	.4975	-.8639	-4.620		.603
	.1453	.2621	-1.310	1.804		.421
	.2746	.2596	-2.519	.9454		.661
	.4135	.1347	-.4221	.3257		.407
	.5509	.1753	.4661	.3182		.699
	.5105	.2109	.2398	.4131		.857
	.3226	.2802	.5584	.8685		.840
	.0231	.3482	.2489	15.10		.873
	-.5444	1.099	-1.208	-2.019		

Note.--Some statistics of logs not computed; monthly mean discharge for months of July and September equals zero 1 or more times during period of record.

1-4665.00 MCDONALDS BRANCH IN LEBANON STATE FOREST, N. J.

Location.--Lat 39°53'05", long 74°30'20", 25 ft upstream from Butterworth Road Bridge.

Drainage area.--2.31 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1954						14	52	21	12	11	39	22	73	41	25	26	9	3	2	5	3	1	1													729.6	
1955						40	21	20	37	32	19	49	15	62	25	11	10	7	9	5	1		1				1	1	3						648.3		
1956							8	19	40	37	36	41	38	9	20	20	19	18	14	19	8	5	4	2	6				3						719.6		
1957						26	56	11	19	12	18	14	30	16	50	39	23	18	11	7	5	2	1	3	1	2	1								671.4		
1958						22	40	5	2		8	7	8	2	5	5	16	15	7	15	16	25	25	23	21	17	17	19	6	16	6	5	3	4	1	4	1327.8
1959										8	11	10	39	9	21	29	26	40	40	35	22	17	20	12	6	3	4	7	3		1	1				1011.0	
1960							25	37	35	29	43	11	42	31	22	26	28	13	4	5	2	3	2	2	1	2	3	1						1		773.4	
1961										3	44	62	14	41	26	12	13	11	8	19	23	18	20	15	8	9	6	5	1	1	3	2		1		1034.1	
1962										13	41	58	10	68	24	23	24	16	18	18	14	10	10	5	3	3	1	1		2	1			1		900.0	
1963							27	29	28	8	10	11	35	11	63	28	25	25	20	9	10	8	5	3	2	5										762.2	
1964										41	54	25	26	24	39	8	19	11	30	28	14	15	13	4	1	7	3	1	2	1						725.7	
1965							28	38	75	27	15	20	33	11	43	16	25	10	9	6	5	2		2												625.3	
1966						6168	14	59	49	28	13	14	5	3	4						2															433.8	
1967						2	28	5	3	1	7	13	29	80	25	63	15	29	13	12	11	7	11	1		3	3			2		1	1			754.6	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5113	100.0	9	1.60	314	3546	69.4	18	3.2	134	706	13.8	27	6	18	61	1.1
1	0.80	2	5113	100.0	10	1.70	558	3232	63.2	19	3.4	124	572	11.2	28	6	12	43	.8
2	0.90	6	5111	100.0	11	1.90	166	2674	52.3	20	3.7	90	448	8.8	29	7	10	31	.6
3	1.00	244	5105	99.8	12	2.00	574	2508	49.1	21	4.0	86	358	7.0	30	8	6	21	.4
4	1.10	218	4861	95.1	13	2.20	310	1934	37.8	22	4.3	66	272	5.3	31	8	6	15	.2
5	1.20	240	4643	90.8	14	2.30	286	1624	31.8	23	4.7	40	206	4.0	32	9	3	9	.1
6	1.30	365	4403	86.1	15	2.50	266	1338	26.2	24	5.0	42	166	3.2	33	10	6	6	.1
7	1.40	247	4038	79.0	16	2.70	198	1072	21.0	25	5.4	39	124	2.4	34				
8	1.50	245	3791	74.1	17	2.90	168	874	17.1	26	5.9	24	85	1.7					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MCDONALDS BRANCH IN LEBANON STATE FOREST, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	1.2 7	1.2 7	1.2 7	1.2 7	1.3 7	1.3 6	1.5 9	1.6 7	1.6 7	2.0 6
1955	1.1 4	1.1 4	1.1 4	1.1 4	1.1 4	1.3 7	1.3 6	1.3 5	1.5 6	1.7 3
1956	1.3 8	1.3 8	1.3 8	1.4 9	1.5 9	1.6 11	1.6 10	1.7 10	1.8 8	2.1 8
1957	1.0 2	1.0 2	1.0 2	1.0 1	1.0 1	1.0 1	1.0 1	1.1 2	1.1 2	2.0 7
1958	2.2 13	2.2 13	2.2 13	2.2 13	2.5 13	2.6 13	2.7 13	2.8 13	3.3 13	4.0 13
1959	1.4 10	1.4 10	1.4 10	1.4 10	1.5 10	1.5 8	1.5 7	1.6 8	1.8 9	2.2 9
1960	1.3 9	1.3 9	1.3 9	1.3 8	1.4 8	1.5 9	1.5 8	1.6 9	1.8 10	2.3 10
1961	1.5 11	1.5 11	1.5 11	1.6 11	1.6 11	1.6 10	1.7 11	1.8 11	1.9 11	2.7 12
1962	1.5 12	1.5 12	1.6 12	1.7 12	1.9 12	2.1 12	2.1 12	2.3 12	2.3 12	2.6 11
1963	1.1 5	1.1 5	1.1 5	1.1 5	1.2 5	1.2 4	1.2 4	1.2 3	1.3 3	1.8 4
1964	1.1 6	1.1 6	1.2 6	1.2 6	1.2 6	1.3 5	1.3 5	1.3 6	1.4 5	1.9 5
1965	1.0 3	1.0 3	1.0 3	1.0 2	1.0 2	1.0 2	1.0 2	1.0 1	1.0 1	1.3 1
1966	0.9 1	0.9 1	0.9 1	1.0 3	1.0 3	1.1 3	1.1 3	1.2 4	1.3 4	1.7 2
MEAN	1.277	1.277	1.292	1.323	1.400	1.409	1.500	1.577	1.700	2.177
VARIANCE	.114	.114	.116	.120	.182	.204	.223	.257	.358	.442
STD DEV	.337	.337	.340	.347	.426	.452	.473	.507	.599	.665
SKEWNESS	1.794	1.794	1.653	1.471	1.564	1.508	1.489	1.339	1.653	1.778
SE OF SKEW	.616	.616	.616	.616	.616	.616	.616	.616	.616	.616
SER CORR	.048	.048	.008	-.036	-.045	-.144	-.143	-.092	-.082	.144
C OF VAR	.264	.264	.263	.262	.304	.307	.315	.321	.352	.305

LOGS

MEAN OF	.094	.094	.099	.110	.130	.151	.159	.180	.209	.322
VAR OF	.010	.010	.011	.011	.014	.014	.015	.016	.019	.014
STD DEV OF	.102	.102	.103	.103	.118	.120	.124	.127	.137	.118
SKEW OF	1.086	1.086	.963	.961	.921	.863	.768	.703	.683	.784
SE OF SKEW OF	.616	.616	.616	.616	.616	.616	.616	.616	.616	.616
SER CORR OF	.116	.116	.063	-.004	.001	-.112	-.107	-.041	-.028	.255
C OF VAR OF	1.080	1.080	1.035	.941	.908	.796	.779	.710	.655	.368

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	.868	.868	.858	.877	.862	.888	.874	.890	.912	1.304
20.00	.919	.919	.918	.938	.936	.970	.968	.996	1.031	1.435
10.00	.958	.958	.961	.983	.989	1.029	1.033	1.069	1.114	1.526
5.00	1.018	1.018	1.027	1.051	1.070	1.117	1.130	1.176	1.235	1.662
2.00	1.192	1.192	1.211	1.240	1.295	1.361	1.390	1.461	1.562	2.026
1.25	1.480	1.480	1.506	1.542	1.663	1.752	1.802	1.907	2.078	2.597
1.11	1.702	1.702	1.726	1.769	1.944	2.048	2.109	2.236	2.465	3.021
1.04	2.015	2.015	2.035	2.086	2.342	2.465	2.537	2.694	3.007	3.610
1.02	2.275	2.275	2.286	2.344	2.672	2.809	2.887	3.066	3.451	4.087
1.01	2.557	2.557	2.557	2.622	3.031	3.182	3.264	3.466	3.931	4.601

1-4665.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MCDONALD'S BRANCH IN LEBANON STATE FOREST, No. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1954	6.1 8	5.2 9	3.9 10	3.1 10	3.0 10	2.6 10	2.5 10	2.4 11	2.3 10	2.0 9
1955	6.1 9	4.6 11	3.0 13	2.6 13	2.5 13	2.3 13	2.2 13	2.2 13	2.1 13	1.8 12
1956	5.9 10	5.4 8	4.2 8	3.6 7	3.5 6	3.1 7	2.9 6	2.7 8	2.3 11	2.0 10
1957	5.0 12	4.4 12	3.3 11	2.9 11	2.7 11	2.5 11	2.5 11	2.4 9	2.4 8	1.8 11
1958	20.0 1	13.7 1	9.3 1	7.2 1	5.9 1	5.7 1	5.5 1	5.1 1	5.0 1	3.6 1
1959	10.0 2	7.6 3	6.4 2	5.6 2	4.7 3	4.2 3	3.9 3	3.6 3	3.3 3	2.8 2
1960	9.7 4	6.8 6	4.3 7	3.6 8	3.3 7	3.2 5	2.9 7	2.8 6	2.5 7	2.1 7
1961	9.3 5	7.4 4	6.0 3	5.2 3	5.0 2	4.7 2	4.5 2	4.3 2	3.7 2	2.8 3
1962	10.0 3	8.1 2	5.8 4	4.9 4	4.4 4	3.9 4	3.5 4	3.2 4	2.9 4	2.5 4
1963	6.5 7	5.5 7	4.4 6	4.2 5	3.8 5	3.1 6	2.8 8	2.7 7	2.6 5	2.1 5
1964	5.5 11	4.9 10	3.9 9	3.4 9	3.2 8	2.9 8	2.9 5	2.8 5	2.5 6	2.0 8
1965	4.1 13	3.8 13	3.1 12	2.9 12	2.6 12	2.5 12	2.4 12	2.3 12	2.1 12	1.7 13
1966	3.5 14	3.0 14	2.2 14	1.7 14	1.5 14	1.5 14	1.4 14	1.4 14	1.3 14	1.2 14
1967	8.9 6	7.1 5	4.7 5	3.9 6	3.7 9	2.8 9	2.6 9	2.4 10	2.3 9	2.1 6
MEAN	7.900	6.250	4.607	3.914	3.521	3.214	3.036	2.879	2.664	2.179
VARIANCE	17.065	6.924	3.251	2.012	1.328	1.177	1.064	.871	.770	.345
STD DEV	4.131	2.631	1.803	1.418	1.152	1.085	1.032	.933	.878	.587
SKEWNESS	2.036	1.774	1.361	.862	.478	.918	1.081	1.122	1.468	.980
SE OF SKEW	.597	.597	.597	.597	.597	.597	.597	.597	.597	.597
SER CORR	.156	.142	.230	.282	.298	.300	.262	.262	.273	.284
C OF VAR	.523	.421	.391	.362	.327	.337	.340	.324	.329	.270

LOGS

MEAN OF	.854	.766	.636	.567	.524	.485	.460	.439	.406	.324
VAR OF	.038	.027	.025	.025	.022	.021	.021	.018	.018	.013
STD DEV OF	.194	.163	.159	.158	.150	.145	.144	.136	.134	.114
SKEW OF	.610	.483	.287	-.187	-.555	-.081	-.051	.047	.175	.025
SE OF SKEW OF	.597	.597	.597	.597	.597	.597	.597	.597	.597	.597
SER CORR OF	.294	.237	.260	.272	.298	.329	.304	.323	.342	.304
C OF VAR OF	.228	.213	.250	.279	.286	.298	.312	.309	.331	.352

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	3.089	2.781	1.996	1.506	1.306	1.380	1.319	1.343	1.292	1.150
1.05	3.726	3.321	2.444	1.990	1.805	1.753	1.666	1.651	1.556	1.371
1.11	4.178	3.687	2.740	2.298	2.115	1.988	1.884	1.845	1.725	1.507
1.25	4.868	4.225	3.165	2.725	2.533	2.311	2.186	2.112	1.959	1.690
2.00	6.829	5.658	4.247	3.728	3.449	3.068	2.893	2.743	2.523	2.107
5.00	10.216	7.909	5.843	5.019	4.491	4.047	3.815	3.575	3.293	2.631
10.00	12.955	9.590	6.973	5.826	5.068	4.666	4.402	4.112	3.803	2.957
25.00	17.044	11.942	8.486	6.798	5.695	5.420	5.121	4.778	4.453	3.350
50.00	20.591	13.867	9.675	7.492	6.102	5.965	5.644	5.268	4.942	3.632
100.00	24.605	15.946	10.919	8.163	6.466	6.497	6.156	5.753	5.435	3.907

STATISTICS OF MONTHLY MEANS, 1954-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1954-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	1.760	.8452	2.719	.4803	6.741	.901	.2135	.1599	1.407	.7489	5.868	.830
NOV	1.860	.7912	1.855	.4254	7.125	.891	.2401	.1586	.8469	.6604	6.600	.862
DEC	1.986	.5512	.4275	.2775	7.610	.868	.2819	.1257	-.5226	.4461	7.746	.833
JAN	2.159	.5055	-1.098	.2341	8.270	.540	.3200	.1235	-1.712	.3860	8.794	.686
FEB	2.407	.5659	-.4705	.2352	9.220	.745	.3683	.1166	-1.376	.3165	10.12	.776
MAR	3.049	1.007	.6660	.3303	11.68	.706	.4613	.1499	-.6004	.3249	12.68	.770
APR	2.869	1.011	.9975	.3523	10.99	.912	.4337	.1502	-.0814	.3462	11.92	.906
MAY	2.476	1.129	2.137	.4560	9.488	.880	.3631	.1579	1.429	.4349	9.978	.833
JUN	1.920	.7088	1.845	.3691	7.357	.948	.2620	.1328	1.504	.5071	7.200	.938
JUL	1.787	.8299	2.045	.4644	6.846	.823	.2193	.1647	1.211	.7508	6.027	.838
AUG	1.994	1.232	2.280	.6176	7.640	.804	.2457	.2083	1.198	.8478	6.753	.687
SEP	1.835	.8501	2.013	.4632	7.032	.879	.2298	.1699	.8846	.7394	6.316	.805

1-4670.00 NORTH BRANCH RANOCAS CREEK AT PEMBERTON, N. J.

Location--Lat 39°58'10", long 74°41'05", at downstream side of Main Street highway bridge.

Drainage area--111 sq mi.

Remarks--Erratic regulation reduces flood peaks slightly and occasionally is significant at low flow.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1922											4	8	13	24	34	65	43	28	32	31	36	17	17	8	5										40992.0	
1923										2	1	3	7	15	26	41	34	24	41	11	8	6	8	31	28	24	18	17	8	5	4	3				49033.0
1924											3	8	14	16	29	25	34	35	36	30	38	39	25	8	8	6	9				3				73180.0	
1925											2	4	12	20	29	39	31	47	41	40	35	33	11	15	4	2									45271.0	
1926											1	1		11	44	49	50	59	32	49	26	25	10	5	3										49212.0	
1927											1	3	12	33	48	32	58	37	54	28	25	10	11	7	3	1	1			1					54930.0	
1928													3	4	12	20	19	63	51	59	47	25	27	10	12	8	3				2	1			91544.0	
1929								1			5	13	12	18	12	30	44	59	30	46	29	14	15	14	4	10	4	2	3						57955.0	
1930											5	19	14	26	22	20	21	53	40	73	22	16	15	5	8	5	1								52007.0	
1931								1			2	22	33	33	35	37	45	29	43	14	29	14	12	4	5	5	2								39122.0	
1932								3	3		9	20	22	33	31	37	39	22	29	20	40	22	13	17	5	1	1	3	5							45466.0
1933								1	2		5	4	12	14	26	14	17	27	42	62	46	34	21	14	9	4	6	2			1		2			65250.0
1934											6	17	25	39	48	45	42	28	37	32	19	12	7	4	1	3									48908.0	
1935								1			4	1	11	17	21	25	47	35	38	33	55	23	22	16	5	2	1	7	1							51025.0
1936											2	19	22	24	33	27	18	28	22	25	30	29	21	25	24	10	6	1							63244.0	
1937								1			1	4	9	32	39	28	38	30	39	41	48	18	16	11	3	7									61897.0	
1938											4	9	20	37	65	61	60	36	19	14	9	6	4	5					2	2	1	4	5	1	1	74100.0
1939												10	11	24	23	15	20	53	41	41	30	27	21	17	18	5	4	2			2		1		88508.0	
1940											6	7	6	20	66	52	38	29	26	27	19	20	17	10	9	6	5	2	1						72874.0	
1941											17	5	7	21	9	29	30	31	51	60	26	29	20	19	8	3									56592.0	
1942								2	1		16	19	36	48	32	25	30	44	21	17	18	30	16	9	1										43352.0	
1943											1	6	19	20	16	12	17	40	51	69	35	30	18	11	11	3			2		1	1	1	1	62621.0	
1944											13	16	19	24	12	26	23	34	25	53	23	17	20	26	11	6	8	8			2				64323.0	
1945												1	8	22	48	36	39	40	53	58	15	21	8	3	2	5	4	2							70385.0	
1946											4	1	9	34	26	28	33	22	58	51	41	18	13	10	5	4	4	4								66245.0
1947											1	16	61	36	33	29	50	62	34	17	12	10	2	2												51118.0
1948											8	13	23	10	12	30	24	38	47	51	36	32	18	10	7	5	2									76790.0
1949											5	15	25	44	27	22	32	15	20	28	37	27	30	23	7	4	4									65830.0
1950											6	15	25	41	51	68	34	35	36	22	16	8	5	2	1											44800.0
1951											3	15	29	17	31	21	35	32	29	46	39	30	13	8	2	8	5	2								54802.0
1952											5	1		1	3	15	25	36	34	36	28	55	53	25	22	10	5	9	6	1	1	1			85674.0	
1953											1	8	23	54	18	19	16	25	24	44	43	28	25	13	14	7	2	1								80447.0
1954											14	18	39	22	22	15	28	53	47	38	31	16	8	6	3	3	1	1								55067.0
1955								1	14		17	15	38	21	27	36	27	62	50	24	21	6	3		2				1							45899.0
1956												4	33	45	35	52	36	33	35	36	20	13	11	8	5											61356.0
1957								19	17	18	23	15	11	18	21	11	13	24	51	43	34	25	15	3	4											52130.0
1958											3	7	10	8	13	21	6	6	19	41	48	33	35	29	19	22	18	10	11	2	2	1	1			95081.0
1959											2	9	21	25	15	17	29	79	60	38	26	23	11	4	3	1	2									69041.0
1960											5	11	18	21	36	20	34	38	38	61	36	23	8	6	6	2				1		1	1			62366.0
1961												2	21	24	41	39	46	37	44	29	25	21	16	13	4	1	2									80609.0
1962												4	18	22	33	33	58	53	36	29	21	31	13	6	2	1	1	3								69905.0
1963												7	22	32	23	22	22	19	35	73	34	27	16	17	8	4	4									57699.0
1964								1	7	11	31	30	31	19	19	19	20	21	43	46	31	13	12	10	2											50918.0
1965								1	2	4	8	52	37	37	28	17	14	21	40	44	25	23	11	3												41726.0
1966											4	19	62	57	37	35	26	14	27	21	19	16	16	6		2	1	1	2							36063.0
1967											5	22	28	17	54	46	73	36	27	27					9	11	3		4	2	1					63999.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16801	100.0	9	32.00	72	16751	99.7	18	130.0	1513	9219	54.9	27	540	112	226	1.3
1	9.00	1	16801	100.0	10	37.00	225	16679	99.3	19	150.0	2096	7706	45.9	28	640	54	114	.6
2	11.00	0	16800	100.0	11	44.00	494	16454	97.9	20	180.0	1542	5610	33.4	29	750	24	60	.3
3	12.00	0	16800	100.0	12	51.00	617	15960	95.0	21	210.0	1374	4068	24.2	30	870	9	36	.2
4	14.00	0	16800	100.0	13	60.00	849	15343	91.3	22	250.0	922	2694	16.0	31	1060	13	27	.1
5	17.00	2	16800	100.0	14	70.00	1163	14494	86.3	23	290.0	677	1772	10.5	32	1200	11	14	.0
6	20.00	1	16798	100.0	15	82.00	1294	13331	79.3	24	340.0	430	1095	6.5	33	1400	1	3	.0
7	23.00	9	16797	100.0	16	96.00	1257	12037	71.6	25	400.0	247	665	4.0	34	1600	2	2	.0
8	27.00	37	16788	99.9	17	110.00	1561	10780	64.2	26	460.0	192	418	2.5					

1-4670.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

NJRTH BRANCH RANCOAS CREEK AT PEMBERTON, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1922	18.0 2	20.7 1	26.6 1	33.9 2	38.3 2	42.2 2	45.2 2	54.0 3	83.3 8	136.0 9
1923	22.0 3	25.3 3	30.4 3	37.6 5	47.1 10	51.3 7	56.5 5	60.5 5	72.1 5	147.0 15
1924	56.0 35	64.3 37	69.9 38	73.7 39	78.4 34	99.7 37	101.0 34	106.0 29	109.0 22	179.0 31
1925	34.0 15	36.0 10	39.1 10	49.5 18	55.0 17	72.4 22	80.8 22	91.9 22	94.1 14	126.0 6
1926	50.0 28	61.7 35	67.1 36	73.6 37	77.2 32	90.2 32	94.5 28	98.2 25	108.0 20	141.0 12
1927	53.0 29	55.3 29	60.4 31	70.1 29	76.5 30	96.4 36	111.0 37	120.0 35	141.0 35	207.0 40
1928	84.0 44	92.3 44	98.4 44	105.0 44	109.0 43	112.0 40	115.0 38	112.0 37	147.0 37	204.0 39
1929	37.0 11	37.0 11	40.9 13	44.1 12	61.0 21	62.9 18	81.2 23	94.3 23	120.0 26	162.0 24
1930	34.0 12	40.3 13	42.7 16	46.3 14	51.0 13	55.2 9	59.3 8	60.6 6	68.3 4	96.6 7
1931	24.0 5	34.0 7	36.9 7	39.7 7	50.6 12	63.3 17	64.2 10	67.1 8	73.3 7	122.0 4
1932	9.0 1	25.0 2	31.6 4	39.1 6	42.7 4	50.5 6	58.8 7	67.1 9	94.9 16	154.0 19
1933	34.0 13	47.0 24	55.9 26	56.6 24	61.7 24	73.9 25	97.0 37	113.0 30	123.0 28	156.0 23
1934	46.0 25	46.3 22	50.1 21	57.2 25	61.3 22	65.3 19	80.4 21	89.0 18	94.2 15	145.0 11
1935	25.0 6	35.0 8	41.7 14	44.9 13	53.2 14	59.7 12	74.2 17	89.5 20	107.0 19	177.0 24
1936	39.0 20	42.7 19	45.6 18	47.9 17	57.3 18	60.0 13	64.8 11	73.2 10	89.3 11	154.0 20
1937	28.0 9	55.7 30	62.4 32	71.0 31	79.7 36	91.3 33	96.0 29	98.9 26	121.0 27	154.0 21
1938	63.0 39	72.0 41	80.3 41	86.2 41	99.5 41	127.0 44	160.0 44	202.0 45	226.0 45	256.0 44
1939	61.0 37	63.0 36	66.0 34	71.3 32	82.9 37	92.3 34	109.0 36	136.0 40	148.0 38	193.0 36
1940	51.0 31	51.7 27	56.9 27	71.3 33	79.1 35	108.0 39	139.0 43	134.0 38	148.0 39	210.0 41
1941	29.0 10	37.3 13	39.7 11	40.4 9	43.2 6	48.1 4	56.4 4	60.6 7	73.0 6	119.0 3
1942	39.0 21	41.7 16	43.9 17	47.0 15	53.6 15	78.3 26	87.4 24	90.1 21	100.0 17	150.0 16
1943	38.0 17	43.7 19	48.9 20	50.1 19	54.8 16	61.3 14	70.8 15	117.0 34	130.0 32	174.0 27
1944	34.0 18	39.0 14	40.7 12	42.1 11	46.2 9	65.1 18	75.6 18	89.7 19	113.0 25	184.0 32
1945	46.0 26	47.0 23	60.3 30	72.9 35	93.7 40	96.3 35	104.0 35	126.0 36	156.0 41	192.0 34
1946	52.0 32	58.7 33	66.1 35	71.5 34	77.5 33	79.1 28	90.2 25	88.4 17	109.0 21	146.0 14
1947	54.0 34	56.7 31	57.6 28	65.8 27	76.8 31	82.6 31	96.2 30	104.0 28	126.0 31	173.0 26
1948	68.0 40	68.3 39	69.3 37	70.7 30	73.4 28	82.1 30	91.3 27	114.0 33	138.0 33	222.0 42
1949	50.0 33	50.0 28	50.6 23	52.5 20	68.5 26	72.6 23	79.4 20	81.3 14	86.2 10	132.0 7
1950	39.0 19	45.0 20	47.3 19	53.0 21	60.1 20	73.7 24	76.5 19	80.1 13	91.4 12	139.0 11
1951	42.0 22	42.0 17	42.7 15	47.4 16	49.6 11	54.7 8	68.8 13	82.1 15	107.0 18	187.0 33
1952	60.0 43	62.7 42	63.9 42	84.8 40	90.0 38	103.0 38	124.0 39	162.0 43	171.0 43	236.0 43
1953	57.0 36	59.0 34	59.6 29	63.8 26	67.6 25	72.1 21	90.5 26	96.6 24	124.0 29	179.0 29
1954	47.0 27	48.0 25	50.6 24	54.4 22	57.4 19	62.4 15	71.0 16	103.0 27	111.0 23	150.0 17
1955	35.0 16	37.0 12	38.4 9	40.1 8	43.6 7	57.6 11	67.9 12	82.3 16	97.5 13	136.0 10
1956	60.0 41	69.3 40	78.6 40	87.6 42	90.2 39	114.0 41	131.0 41	136.0 39	139.0 34	179.0 30
1957	27.0 7	27.0 4	27.9 2	31.6 1	33.9 1	38.4 1	41.2 1	45.6 1	55.8 2	156.0 22
1958	108.0 45	113.0 45	137.0 45	145.0 45	159.0 45	181.0 45	184.0 45	196.0 44	221.0 44	263.0 45
1959	51.0 33	58.0 32	62.6 33	73.0 36	75.7 29	81.7 29	99.6 33	113.0 31	126.0 30	167.0 25
1960	44.0 23	46.0 21	50.3 22	67.8 28	72.2 27	78.7 27	96.5 31	114.0 32	144.0 36	193.0 35
1961	80.0 42	83.7 43	90.3 43	101.0 43	115.0 44	122.0 42	130.0 40	138.0 41	148.0 40	204.0 37
1962	64.0 38	68.0 38	73.1 39	73.7 38	103.0 42	123.0 43	133.0 42	146.0 42	168.0 42	204.0 38
1963	44.0 24	52.0 28	53.9 25	55.6 23	61.6 23	65.7 20	69.1 14	76.5 11	83.6 9	132.0 8
1964	28.0 8	31.3 6	33.6 6	36.6 4	41.6 3	46.2 3	58.6 6	57.7 4	67.7 3	125.0 5
1965	23.0 4	27.3 5	32.1 5	36.0 3	43.0 5	48.2 5	50.2 3	50.4 2	53.0 1	88.0 1
1966	34.0 14	35.3 9	38.3 8	41.2 10	45.5 8	56.5 10	59.6 9	79.9 12	111.0 24	154.0 18
MEAN	45.556	50.495	55.115	60.547	67.960	78.178	88.682	100.380	115.838	166.747
VARIANCE	381.114	357.012	444.408	492.110	587.414	771.880	928.096	1223.829	1413.066	1441.095
STD DEV	19.522	18.895	21.081	22.184	24.237	27.783	30.465	34.983	37.591	37.962
SKEWNESS	.903	1.073	1.553	1.461	1.412	1.350	1.001	.943	.883	.469
SE OF SKEW	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR	.144	.070	-.005	.063	.087	.010	.061	.100	.140	.206
C OF VAR	.429	.374	.382	.366	.357	.355	.344	.349	.325	.228

LOGS

MEAN OF	1.618	1.675	1.714	1.757	1.808	1.869	1.924	1.977	2.042	2.211
VAR OF	.039	.025	.023	.021	.020	.021	.021	.022	.020	.010
STD DEV OF	.198	.158	.152	.146	.143	.143	.144	.148	.140	.100
SKEW OF	-.695	.002	.334	.401	.372	.336	.129	-.001	-.108	-.243
SE OF SKEW OF	.354	.354	.354	.354	.354	.354	.354	.354	.354	.354
SER CORR OF	.255	.158	.057	.118	.118	.035	.087	.135	.169	.248
C OF VAR OF	.123	.094	.089	.083	.079	.077	.075	.075	.069	.045

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	11.433	20.290	24.963	28.867	32.738	37.262	40.114	42.808	50.753	91.278
20.00	18.077	26.000	30.111	34.223	38.826	44.436	49.322	54.042	64.221	109.572
10.00	22.560	29.675	33.503	37.762	42.821	49.124	55.211	61.190	72.642	120.328
5.00	28.903	34.830	38.375	42.857	48.541	55.810	63.445	71.120	84.155	134.316
2.00	43.714	47.322	50.779	55.885	63.022	72.631	83.406	94.826	110.806	164.065
1.25	61.360	64.305	69.075	75.230	84.223	97.029	110.755	126.425	144.709	197.770
1.11	71.258	75.490	82.051	89.034	99.178	114.106	128.978	146.930	165.839	216.940
1.04	81.959	89.573	99.451	107.644	119.155	136.771	152.196	172.470	191.317	238.522
1.02	88.806	100.040	113.156	122.378	134.843	154.465	169.664	191.281	209.544	253.070
1.01	94.838	110.499	127.511	137.876	151.235	172.869	187.299	209.947	227.217	266.548

1-4670.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NORTH BRANCH RANOCAS CREEK AT PEMBERTON, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1922	311.0 45	307.0 45	299.0 43	263.0 43	218.0 41	191.0 42	169.0 45	158.0 45	146.0 44	112.0 44
1923	600.0 27	577.0 23	520.0 19	406.0 20	326.0 20	286.0 18	267.0 18	264.0 13	214.0 22	134.0 37
1924	900.0 11	900.0 8	616.0 11	486.0 9	401.0 8	353.0 7	346.0 5	323.0 5	288.0 6	200.0 9
1925	365.0 44	328.0 43	289.0 44	240.0 45	216.0 43	191.0 43	170.0 43	169.0 43	148.0 43	124.0 39
1926	395.0 43	375.0 40	329.0 38	306.0 33	258.0 35	214.0 37	200.0 37	189.0 38	167.0 39	135.0 35
1927	750.0 17	592.0 21	414.0 28	344.0 29	276.0 32	201.0 40	195.0 39	187.0 39	172.0 37	150.0 28
1928	1210.0 6	1180.0 3	810.0 4	580.0 2	407.0 7	330.0 11	301.0 11	278.0 12	274.0 7	250.0 2
1929	720.0 20	632.0 20	536.0 17	477.0 11	337.0 17	287.0 17	268.0 15	252.0 16	216.0 21	159.0 24
1930	504.0 34	430.0 35	366.0 36	303.0 35	290.0 29	236.0 32	210.0 35	192.0 35	183.0 32	142.0 31
1931	438.0 37	421.0 36	367.0 35	273.0 38	198.0 44	185.0 44	183.0 42	167.0 44	145.0 45	107.0 45
1932	614.0 26	591.0 22	477.0 24	367.0 25	348.0 14	265.0 24	231.0 27	207.0 32	182.0 33	124.0 40
1933	1190.0 7	1040.0 7	690.0 6	476.0 12	318.0 23	249.0 27	228.0 29	225.0 26	211.0 24	179.0 16
1934	502.0 35	489.0 31	383.0 33	307.0 32	243.0 39	227.0 36	222.0 32	200.0 33	178.0 36	134.0 36
1935	581.0 28	531.0 29	444.0 26	339.0 30	277.0 31	237.0 31	219.0 33	208.0 31	181.0 34	140.0 32
1936	581.0 29	533.0 28	468.0 25	417.0 19	341.0 16	298.0 15	299.0 12	283.0 11	257.0 10	173.0 19
1937	508.0 33	470.0 33	424.0 27	352.0 28	303.0 32	269.0 21	254.0 19	244.0 18	232.0 13	170.0 22
1938	1640.0 2	1490.0 1	1020.0 1	616.0 1	493.0 1	373.0 6	343.0 6	302.0 9	243.0 12	203.0 8
1939	1690.0 1	1470.0 2	905.0 2	574.0 3	450.0 3	404.0 3	401.0 2	365.0 2	311.0 2	242.0 1
1940	568.0 10	763.0 12	550.0 15	494.0 7	408.0 6	385.0 5	342.0 7	321.0 6	255.0 11	199.0 10
1941	449.0 36	420.0 37	377.0 34	315.0 31	263.0 34	243.0 29	232.0 25	218.0 28	204.0 28	155.0 26
1942	412.0 39	319.0 44	282.0 45	271.0 39	255.0 37	231.0 35	206.0 36	189.0 36	155.0 42	119.0 42
1943	1370.0 3	1160.0 4	829.0 3	492.0 8	320.0 22	252.0 26	232.0 26	216.0 29	220.0 20	172.0 20
1944	824.0 14	738.0 13	537.0 16	460.0 13	355.0 13	346.0 8	293.0 13	261.0 14	224.0 16	176.0 17
1945	667.0 12	773.0 11	682.0 7	485.0 10	361.0 11	272.0 20	239.0 23	240.0 19	222.0 18	193.0 11
1946	726.0 19	663.0 17	560.0 14	440.0 15	330.0 19	303.0 14	268.0 16	251.0 17	225.0 15	181.0 14
1947	429.0 38	374.0 41	322.0 41	270.0 40	256.0 36	211.0 38	195.0 40	189.0 37	180.0 35	140.0 33
1948	729.0 18	660.0 18	491.0 22	397.0 22	382.0 9	310.0 13	302.0 10	298.0 10	274.0 8	210.0 7
1949	633.0 24	546.0 26	477.0 23	421.0 18	376.0 10	340.0 10	321.0 9	303.0 8	269.0 9	180.0 15
1950	402.0 42	368.0 42	319.0 42	265.0 42	217.0 42	191.0 41	189.0 41	182.0 41	158.0 41	123.0 41
1951	580.0 30	558.0 25	503.0 20	379.0 23	301.0 27	266.0 22	244.0 21	233.0 23	205.0 27	150.0 29
1952	1050.0 8	886.0 9	624.0 10	447.0 14	346.0 15	341.0 9	331.0 8	311.0 7	303.0 4	234.0 4
1953	764.0 16	715.0 14	631.0 9	514.0 5	417.0 5	397.0 4	365.0 3	337.0 3	310.0 3	220.0 6
1954	657.0 22	543.0 27	387.0 32	305.0 34	288.0 30	233.0 33	218.0 34	198.0 34	192.0 31	151.0 27
1955	641.0 23	500.0 30	343.0 37	215.0 46	195.0 46	182.0 45	169.0 44	170.0 42	163.0 40	126.0 38
1956	520.0 32	457.0 34	402.0 29	361.0 26	323.0 21	295.0 16	268.0 17	240.0 20	207.0 26	168.0 23
1957	409.0 40	398.0 38	325.0 39	278.0 36	243.0 38	237.0 30	224.0 30	221.0 27	212.0 23	143.0 30
1958	1360.0 4	1160.0 5	785.0 5	567.0 4	481.0 2	437.0 1	416.0 1	382.0 1	343.0 1	260.0 1
1959	673.0 21	639.0 19	524.0 18	435.0 16	333.0 18	279.0 19	252.0 20	236.0 21	227.0 14	189.0 13
1960	1360.0 5	1090.0 6	649.0 8	401.0 21	290.0 28	265.0 23	241.0 22	235.0 22	209.0 25	170.0 21
1961	834.0 13	707.0 15	569.0 12	505.0 6	438.0 4	412.0 2	361.0 4	330.0 4	290.0 5	221.0 5
1962	1030.0 9	824.0 10	562.0 13	421.0 17	355.0 12	326.0 12	277.0 14	260.0 15	223.0 17	192.0 12
1963	535.0 31	480.0 32	401.0 30	361.0 27	304.0 24	255.0 25	230.0 28	226.0 24	220.0 19	158.0 25
1964	402.0 41	379.0 39	324.0 40	277.0 37	264.0 33	231.0 34	222.0 31	225.0 25	201.0 29	139.0 34
1965	303.0 46	295.0 46	272.0 46	248.0 44	224.0 40	206.0 39	197.0 38	187.0 40	167.0 38	114.0 43
1966	622.0 25	559.0 24	400.0 31	266.0 41	196.0 45	156.0 46	150.0 46	153.0 46	125.0 46	96.0 46
1967	792.0 15	669.0 16	493.0 21	368.0 24	302.0 26	244.0 28	235.0 24	213.0 30	198.0 30	175.0 18
MEAN	737.826	652.152	499.500	386.609	315.717	274.826	254.891	239.957	215.848	165.974
VARIANCE	121487.625	87159.250	30339.355	10709.590	5686.848	4737.500	4077.987	3221.580	2523.940	1568.392
STD DEV	348.551	295.227	174.182	103.487	75.411	68.829	63.859	56.759	50.239	39.603
SKEWNESS	1.169	1.257	1.036	.335	.419	.577	.718	.663	.552	.518
SE OF SKEW	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR	.196	.197	.206	.230	.153	.196	.192	.223	.209	.238
C OF VAR	.472	.453	.349	.268	.239	.250	.251	.237	.233	.239

LOGS

MEAN OF	2.826	2.776	2.675	2.572	2.487	2.426	2.394	2.369	2.323	2.208
VAR OF	.036	.032	.020	.014	.011	.011	.011	.010	.010	.011
STD DEV OF	.190	.180	.143	.118	.104	.107	.106	.100	.100	.103
SKEW OF	.339	.401	.328	-.078	-.086	.101	.222	.236	.033	.045
SE OF SKEW OF	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350
SER CORR OF	.199	.190	.200	.218	.136	.199	.189	.232	.227	.271
C OF VAR OF	.067	.065	.053	.046	.042	.044	.044	.042	.043	.047

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	269.543	257.314	238.156	195.471	172.890	152.968	146.242	142.406	123.646	93.817
1.05	340.312	317.349	284.192	237.419	205.566	178.981	168.525	162.625	144.204	109.721
1.11	388.686	358.270	314.238	262.988	225.141	194.912	182.348	175.119	156.599	119.353
1.25	460.341	418.760	357.044	297.286	251.048	216.426	201.230	192.130	173.121	132.236
2.00	652.964	580.883	464.518	374.418	308.050	265.606	245.293	231.618	210.029	161.193
5.00	959.279	838.058	619.962	469.226	376.171	327.884	302.834	282.823	255.262	196.984
10.00	1189.917	1031.593	728.502	526.966	416.778	366.920	339.854	315.592	282.866	218.977
25.00	1514.035	1303.722	872.280	595.460	464.253	414.430	385.863	356.156	315.774	245.322
50.00	1779.964	1527.245	984.332	643.868	497.370	448.790	419.771	385.951	339.144	264.122
100.00	2067.511	1769.251	1100.714	690.393	528.894	482.448	453.482	415.499	361.713	282.332

STATISTICS OF LOGS OF MONTHLY MEANS, 1922-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	117.7	62.54	2.186	.5313	5.899	.468	2.025	.1953	.4338	.0965	7.783	.588
NOV	146.2	61.38	.2788	.4197	7.328	.487	2.123	.2022	-.5016	.0952	8.160	.614
DEC	154.0	57.67	.5943	.3744	7.719	.517	2.157	.1699	-.3461	.0788	8.290	.637
JAN	187.5	62.98	.3778	.3359	9.397	.505	2.247	.1558	-.5340	.0693	8.639	.606
FEB	216.5	65.02	1.021	.3003	10.85	.445	2.317	.1308	-.3347	.0565	8.906	.465
MAR	248.7	71.81	1.028	.2888	12.46	.435	2.379	.1192	.2986	.0501	9.146	.449
APR	227.9	77.47	.6397	.3399	11.42	.749	2.334	.1453	.1350	.0622	8.971	.744
MAY	194.0	69.99	1.003	.3608	9.721	.668	2.262	.1474	.3792	.0652	8.697	.627
JUN	135.8	58.32	.9264	.4293	6.808	.620	2.097	.1783	.2271	.0850	8.059	.624
JUL	121.8	72.73	2.013	.5970	6.105	.539	2.029	.2145	.6717	.1058	7.798	.579
AUG	130.3	82.24	1.472	.6310	6.532	.376	2.041	.2526	.3019	.1238	7.846	.512
SEP	114.8	62.05	1.398	.5404	5.754	.459	2.004	.2203	.1887	.1099	7.705	.510

1-4745.00 SCHUYLKILL RIVER AT PHILADELPHIA, PA.

Location.--Lat 39°58'00", long 75°11'20", 150 ft upstream from Fairmount Dam.

Drainage area.--1,893 sq mi.

Remarks.--Some regulation; probably not significant. Diversion reduces flow at all times; significant at low flow and medium flows.

DURATION TABLE OF DAILY DISCHARGE

[illegible]

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
1	0.00	0	13149	100.0	9	10.00	2	13145	100.0	18	240.0	606	12246	93.1	27	5600	671	1330	10.1
2	5.60	1	13149	100.0	10	14.00	1	13143	100.0	19	340.0	835	11646	88.5	28	7900	349	659	5.0
3	1.80	0	13149	100.0	11	6.00	13	13136	99.9	20	100.0	1041	1000	96.9	29	11000	171	333	2.9
4	1.20	0	13148	100.0	12	29.00	13	13136	99.9	21	680.0	1271	9764	74.3	30	16000	88	139	1.0
5	1.70	0	13148	100.0	13	41.00	13	13123	99.8	22	960.0	1575	8493	64.6	31	23000	34	51	0.3
6	2.50	0	13148	100.0	14	58.00	73	13090	99.6	23	1400.0	1360	6918	52.6	32	32000	11	17	0.1
7	3.50	1	13148	100.0	15	82.00	182	13017	99.0	24	1900.0	1802	5558	42.3	33	46000	4	6	0.0
8	4.70	0	13147	100.0	16	120.00	207	12835	97.6	25	2800.0	1310	3756	28.6	34	65000	2	2	0.0
	7.30	2	13147	100.0	17	170.00	382	12628	96.0	26	3900.0	1116	2446	18.6					

1-4745.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

SCHUYLKILL RIVER AT PHILADELPHIA, PA.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1932	38.0 4	63.0 6	70.0 5	77.9 4	102.0 4	222.0 7	276.0 7	479.0 10	971.0 13	2440.0 19
1933	123.0 13	301.0 24	442.0 30	512.0 30	608.0 29	800.0 29	974.0 26	1530.0 31	1740.0 28	3260.0 29
1934	375.0 29	398.0 30	437.0 28	507.0 29	849.0 33	1090.0 32	1170.0 31	1310.0 28	2070.0 30	3030.0 36
1935	334.0 29	354.0 27	390.0 25	398.0 24	447.0 21	706.0 26	1120.0 29	1270.0 27	1750.0 29	3550.0 33
1936	97.0 11	104.0 10	109.0 9	141.0 10	219.0 11	271.0 9	303.0 9	360.0 8	522.0 8	2250.0 12
1937	140.0 15	156.0 13	242.0 18	249.0 18	310.0 17	755.0 28	912.0 25	889.0 20	1380.0 23	2210.0 10
1938	594.0 34	629.0 34	665.0 34	748.0 34	961.0 34	1310.0 34	1830.0 33	2120.0 34	2560.0 33	3470.0 31
1939	138.0 14	167.0 14	184.0 13	200.0 13	283.0 14	557.0 18	647.0 16	666.0 15	717.0 10	1920.0 7
1940	277.0 22	297.0 22	360.0 24	407.0 25	521.0 28	693.0 24	1050.0 27	1130.0 24	1590.0 25	2950.0 25
1941	7.0 2	9.0 2	24.2 1	36.9 1	55.5 1	98.7 1	162.0 3	227.0 3	443.0 4	1310.0 2
1942	416.0 33	452.0 33	579.0 33	613.0 31	791.0 30	1190.0 33	2190.0 34	2110.0 33	2570.0 34	3470.0 32
1943	80.0 9	98.0 9	110.0 10	116.0 8	163.0 8	222.0 8	301.0 8	480.0 11	1350.0 21	2340.0 16
1944	86.0 10	124.7 11	177.0 12	193.0 12	221.0 12	356.0 12	492.0 14	481.0 12	746.0 11	2300.0 14
1945	782.0 35	899.0 35	998.0 35	1040.0 35	1270.0 35	2020.0 35	2770.0 35	2850.0 35	3010.0 35	3620.0 34
1946	296.0 26	366.0 28	393.0 26	422.0 26	469.0 23	676.0 23	720.0 20	720.0 16	1070.0 16	2230.0 11
1947	246.0 21	261.0 20	279.0 20	282.0 19	313.0 18	542.0 16	663.0 17	1360.0 29	1450.0 24	2800.0 23
1948	387.0 30	394.0 29	402.0 27	443.0 27	509.0 27	646.0 22	833.0 24	1050.0 23	1350.0 22	3340.0 30
1949	169.0 16	195.0 18	198.0 16	234.0 14	294.0 15	346.0 11	361.0 10	374.0 9	516.0 7	1970.0 8
1950	280.0 25	303.0 25	328.0 23	374.0 22	463.0 22	700.0 25	739.0 21	855.0 19	1250.0 20	3160.0 27
1951	277.0 24	283.0 21	310.0 21	327.0 21	483.0 25	555.0 17	685.0 18	854.0 18	1050.0 15	3220.0 28
1952	392.0 31	420.0 31	440.0 29	462.0 28	494.0 26	713.0 27	1530.0 32	1540.0 32	2250.0 32	4540.0 35
1953	179.0 19	191.0 17	221.0 17	243.0 17	258.0 13	407.0 13	457.0 13	587.0 14	1040.0 14	2600.0 21
1954	39.0 5	47.0 4	94.4 8	130.0 9	208.0 9	311.0 10	364.0 11	356.0 7	532.0 9	1630.0 6
1955	116.0 12	128.0 12	132.0 11	152.0 11	210.0 10	588.0 19	712.0 19	1140.0 25	2240.0 31	2870.0 24
1956	410.0 32	437.0 32	538.0 32	678.0 33	839.0 32	1070.0 30	1060.0 28	1240.0 26	1600.0 26	2500.0 20
1957	64.0 7	66.0 7	75.3 6	90.7 6	147.0 6	171.0 4	185.0 4	211.0 2	379.0 3	2400.0 17
1958	177.0 18	188.0 16	194.0 14	234.0 15	439.0 20	612.0 21	811.0 23	915.0 22	1160.0 19	2340.0 15
1959	194.0 20	242.0 19	271.0 19	324.0 20	481.0 24	590.0 20	765.0 22	894.0 21	1090.0 17	2280.0 13
1960	274.0 23	313.0 26	460.0 31	616.0 32	812.0 31	1090.0 31	1130.0 30	1400.0 30	1740.0 27	2800.0 22
1961	300.0 27	300.0 23	326.0 22	380.0 23	413.0 19	473.0 15	577.0 15	763.0 17	1130.0 18	2400.0 18
1962	170.0 17	170.0 15	197.0 15	240.0 16	305.0 16	438.0 14	438.0 12	578.0 13	838.0 12	2160.0 9
1963	65.0 8	80.7 8	88.6 7	93.1 7	102.0 5	190.0 5	243.0 6	279.0 5	462.0 5	1510.0 3
1964	30.0 3	33.3 3	43.4 3	53.1 3	82.3 2	153.0 3	143.0 2	170.0 1	346.0 2	1610.0 5
1965	45.0 6	48.3 5	64.9 4	82.0 5	155.0 7	203.0 6	239.0 5	245.0 4	276.0 1	1020.0 1
1966	0.6 1	8.1 1	29.6 2	40.8 2	89.6 3	116.0 2	141.0 1	307.0 6	470.0 6	1600.0 4

MEAN	217.017	243.583	282.068	318.271	410.468	596.591	771.229	906.857	1247.371	2545.714
VARIANCE	29984.316	35321.617	43919.793	52694.937	81492.375	163758.687	346985.062	379629.937	505682.812	571641.875
STD DEV	173.160	187.940	209.570	229.554	285.469	404.671	589.054	616.141	711.114	756.070
SKENNESS	1.247	1.386	1.292	1.113	1.118	1.453	1.661	1.219	.672	.273
SE OF SKEW	.398	.398	.398	.398	.398	.398	.398	.398	.398	.398
SER CORR	-.051	-.013	-.050	-.079	-.098	-.057	-.137	-.144	-.077	.112
C OF VAR	.798	.772	.743	.721	.695	.678	.764	.679	.570	.297

LOGS

MEAN OF	2.124	2.217	2.312	2.375	2.502	2.676	2.771	2.857	3.019	3.386
VAR OF	.346	.216	.151	.135	.111	.099	.111	.098	.076	.019
STD DEV OF	.588	.465	.389	.368	.334	.314	.333	.313	.276	.138
SKEW OF	-2.177	-1.233	-.669	-.540	-.397	-.376	-.165	-.236	-.369	-.629
SE OF SKEW OF	.398	.398	.398	.398	.398	.398	.398	.398	.398	.398
SER CORR OF	.154	.130	.093	.079	.018	.038	.015	.042	.095	.189
C OF VAR OF	.277	.210	.168	.155	.133	.117	.120	.110	.091	.041

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1 ^c	3	7	14	30	60	90	120	183	ANNUAL
100.00	4.75	5.552	16.698	23.846	42.689	72.491	90.355	118.749	201.513	1003.581
20.00	16.15	21.260	40.517	52.393	82.898	134.385	161.379	209.723	345.688	1367.921
10.00	30.50	39.323	62.282	77.207	115.650	183.323	218.038	280.811	453.650	1590.751
5.00	62.50	75.673	100.862	119.941	169.816	262.531	311.502	395.731	621.348	1885.315
2.00	192.00	204.305	226.483	255.696	334.598	496.185	602.311	739.332	1086.033	2512.393
1.25	372.00	405.927	441.801	489.503	613.471	879.512	1130.493	1326.929	1796.263	3193.767
1.11	478.00	523.004	594.531	659.996	819.267	1157.423	1552.830	1773.479	2287.630	3557.296
1.04	580.00	640.580	786.283	881.571	1093.034	1523.437	2159.478	2388.526	2914.880	3940.900
1.02	635.00	707.344	923.900	1046.580	1302.666	1801.849	2659.605	2876.980	3380.546	4182.898
1.01	675.00	759.337	1055.074	1209.124	1514.627	2082.265	3197.610	3387.013	3841.588	4394.727

^c Discharge determined by graphical method.

1-4745.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SCHUYLKILL RIVER AT PHILADELPHIA, PA.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1932	19600.0 27	16100.0 27	11600.0 23	7890.0 26	5650.0 30	4060.0 30	3150.0 34	2860.0 33	2460.0 33	1400.0 34
1933	73900.0 1	51800.0 1	29070.0 1	16200.0 1	10800.0 2	7100.0 7	6120.0 8	5440.0 9	5110.0 5	4130.0 2
1934	23600.0 23	12200.0 31	8780.0 34	6610.0 32	5970.0 28	4540.0 25	3910.0 26	3480.0 28	2890.0 31	2210.0 24
1935	42500.0 7	30800.0 6	16500.0 8	9260.0 18	5580.0 32	4660.0 24	3880.0 27	3940.0 24	3520.0 21	2860.0 13
1936	49300.0 8	31200.0 5	21500.0 2	18600.0 1	13700.0 1	10100.0 1	7540.0 1	7060.0 1	5770.0 3	3230.0 4
1937	11900.0 35	11100.0 33	9740.0 31	8080.0 24	6530.0 19	5290.0 18	4720.0 16	4340.0 17	3830.0 15	2300.0 21
1938	24600.0 21	18700.0 19	12300.0 20	7820.0 27	5630.0 31	4240.0 29	3680.0 29	3200.0 30	3010.0 29	2680.0 15
1939	25200.0 20	17600.0 20	12800.0 17	9930.0 13	8630.0 9	7100.0 8	6720.0 5	5670.0 6	5030.0 6	3010.0 8
1940	34800.0 12	20200.0 15	12300.0 21	10620.0 9	8760.0 8	8000.0 3	6460.0 7	5610.0 7	4020.0 13	2510.0 17
1941	15700.0 32	9870.0 35	7380.0 35	5530.0 35	5010.0 33	4030.0 31	3530.0 30	3650.0 27	3320.0 24	2000.0 29
1942	46500.0 5	32100.0 4	17700.0 7	10500.0 10	6380.0 21	3980.0 32	4160.0 24	3760.0 25	3290.0 25	2240.0 22
1943	31500.0 14	25100.0 11	16200.0 9	9580.0 17	6180.0 24	5260.0 19	5120.0 13	4720.0 12	4200.0 11	2940.0 10
1944	26300.0 17	19900.0 16	11600.0 24	7990.0 25	6380.0 22	6030.0 12	4860.0 14	4110.0 21	3590.0 20	2410.0 19
1945	35700.0 10	19500.0 17	12900.0 18	10500.0 11	7420.0 14	5300.0 17	4830.0 15	4310.0 18	4110.0 12	3110.0 7
1946	44000.0 4	30100.0 7	19300.0 4	12400.0 6	8860.0 7	5710.0 14	4700.0 17	4460.0 15	4240.0 9	3200.0 5
1947	43100.0 5	30600.0 34	9550.0 33	7180.0 31	6010.0 26	4800.0 32	4440.0 20	4030.0 22	3650.0 19	2330.0 20
1948	17500.0 29	14700.0 29	11300.0 26	9660.0 16	7000.0 15	6010.0 13	5920.0 10	5440.0 8	4760.0 8	2900.0 11
1949	35400.0 11	26800.0 10	15800.0 11	13100.0 5	9030.0 6	7250.0 4	5790.0 11	5260.0 10	4230.0 10	2490.0 18
1950	21500.0 25	16500.0 26	12200.0 22	8870.0 19	6020.0 25	5430.0 16	4460.0 19	4020.0 23	3470.0 22	2120.0 27
1951	59600.0 3	37400.0 2	19900.0 3	16400.0 2	10300.0 3	6730.0 10	6810.0 3	6270.0 4	5210.0 4	3130.0 6
1952	42100.0 9	27300.0 9	18100.0 6	11230.0 8	9250.0 4	8170.0 2	7500.0 2	6700.0 2	6500.0 1	4450.0 1
1953	43300.0 6	28900.0 8	16200.0 10	9770.0 15	9230.0 5	7110.0 6	6770.0 4	6510.0 3	6170.0 2	3940.0 3
1954	14400.0 33	11400.0 32	9630.0 32	7810.0 28	4700.0 34	3540.0 34	3420.0 31	3120.0 31	2930.0 30	1720.0 33
1955	65200.0 2	34200.0 3	19200.0 5	13500.0 4	7720.0 12	4270.0 28	3320.0 32	2880.0 32	2830.0 32	2180.0 25
1956	21900.0 24	17500.0 21	11400.0 25	7280.0 30	6420.0 20	5550.0 15	5190.0 12	4570.0 13	3700.0 18	2790.0 14
1957	26300.0 18	20700.0 12	14900.0 12	9810.0 14	6580.0 17	4990.0 21	4370.0 21	4120.0 20	3740.0 17	2220.0 23
1958	27600.0 15	18900.0 18	12900.0 15	11300.0 7	8480.0 10	7230.0 5	6690.0 6	5980.0 5	4990.0 7	2960.0 12
1959	11400.0 36	8230.0 36	5470.0 36	4410.0 36	3660.0 36	3280.0 36	3080.0 35	2760.0 34	2430.0 34	1790.0 32
1960	27600.0 16	20500.0 13	12300.0 19	8830.0 21	5990.0 27	4850.0 22	4290.0 23	4440.0 16	3960.0 14	2950.0 9
1961	20800.0 26	16800.0 23	12900.0 16	10400.0 12	8390.0 11	6930.0 9	5930.0 9	4900.0 11	3820.0 16	2580.0 16
1962	18500.0 28	16900.0 22	13000.0 14	8490.0 23	7590.0 13	6070.0 11	4560.0 18	4190.0 19	3190.0 26	1880.0 30
1963	16800.0 30	14800.0 28	10900.0 27	8600.0 22	6810.0 16	4500.0 26	3840.0 28	3320.0 29	3050.0 28	1880.0 31
1964	16100.0 31	13200.0 30	9940.0 30	7760.0 29	6290.0 23	5100.0 20	4330.0 22	4480.0 14	3470.0 23	2000.0 28
1965	25200.0 19	16700.0 24	10500.0 29	6190.0 34	4460.0 35	3280.0 36	2630.0 36	2340.0 36	1790.0 36	1010.0 36
1966	24000.0 22	16600.0 25	10900.0 28	6540.0 33	5810.0 29	3660.0 33	3200.0 33	2720.0 35	2010.0 35	1160.0 35
1967	33700.0 13	20500.0 14	13100.0 13	8870.0 20	6530.0 18	4400.0 27	4120.0 25	3760.0 26	3120.0 27	2120.0 26
MEAN	29991.664	20988.887	13591.387	9651.664	7159.719	5515.277	4834.441	4400.555	3803.055	2521.389
VARIANCE	2.240x10 ⁸	8.302x10 ⁷	2.028x10 ⁷	9.176x10 ⁶	3.965x10 ⁶	2.423x10 ⁶	1.787x10 ⁶	1.452x10 ⁶	1.162x10 ⁶	5.669x10 ⁵
STD DEV	14965.645	9111.391	4503.613	3029.198	1991.294	1556.680	1336.644	1204.813	1077.995	752.948
SKEWNESS	1.219	1.298	1.246	1.148	1.109	.822	.476	.441	.634	.451
SE OF SKEW	.393	.393	.393	.393	.393	.393	.393	.393	.393	.393
SER CORR	-.174	-.221	-.176	-.173	-.145	.040	.090	.095	.222	.202
C OF VAR	.499	.434	.331	.314	.278	.282	.276	.274	.283	.299

LOGS

MEAN OF	4.429	4.286	4.112	3.965	3.840	3.726	3.668	3.628	3.563	3.382
VAR OF	.042	.032	.019	.017	.013	.014	.014	.014	.015	.019
STD DEV OF	.205	.178	.138	.130	.116	.119	.120	.120	.124	.138
SKEW OF	.189	.156	-.013	.139	.189	.195	.029	-.114	-.238	-.641
SE OF SKEW OF	.393	.393	.393	.393	.393	.393	.393	.393	.393	.393
SER CORR OF	-.162	-.251	-.173	-.165	-.136	.071	.092	.089	.228	.265
C OF VAR OF	.046	.042	.034	.033	.030	.032	.033	.033	.035	.041

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENT INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	9566.832	7795.516	6146.973	4746.238	3865.000	2924.932	2467.971	2177.468	1786.987	995.716
1.05	12683.465	10020.020	7651.141	5712.793	4530.309	3441.972	2967.366	2667.284	2240.971	1357.721
1.11	14820.566	11499.484	8595.887	6322.168	4945.598	3766.071	3275.322	2965.886	2516.959	1578.842
1.25	17987.320	13636.363	9895.023	7164.840	5515.547	4212.441	3693.045	3366.191	2884.990	1870.738
2.00	26467.352	19109.023	12943.074	9170.191	6856.016	5268.504	4653.133	4264.141	3698.970	2490.294
5.00	39771.324	27184.922	16913.969	11852.520	8623.664	6672.492	5874.008	5361.687	4666.930	3160.098
10.00	49627.609	32885.977	19445.852	13607.719	9769.086	7588.129	6639.902	6025.883	5236.910	3515.748
25.00	63255.441	40477.418	22558.359	15814.645	11199.781	8737.441	7571.445	6810.102	5894.187	3889.515
50.00	74257.437	46409.582	24825.297	17456.402	12258.547	9591.590	8244.250	7361.336	6346.055	4124.422
100.00	85988.937	52576.258	27055.629	19099.875	13314.434	10446.215	8902.297	7888.918	6770.734	4329.414

STATISTICS OF LOGS OF MONTHLY MEANS, 1932-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	1087.	985.9	1.988	.9068	3.585	.398	2.880	.3878	-.2156	.1347	7.416	.575
NOV	2125.	1655.	.7506	.7788	7.006	.327	3.162	.4229	-.4533	.1337	8.142	.597
DEC	2688.	1815.	.5421	.6753	8.864	.455	3.318	.3310	-.1863	.0998	8.543	.555
JAN	3122.	1750.	.9995	.5605	10.29	.534	3.428	.2507	-.2344	.0731	8.826	.541
FEB	3516.	1603.	.7304	.4560	11.59	.186	3.498	.2195	-.7685	.0628	9.006	.109
MAR	4944.	1983.	2.135	.4011	16.30	-.008	3.666	.1540	.4145	.0420	9.440	.036
APR	4178.	1928.	.6412	.4614	13.78	.408	3.574	.2087	-.1803	.0584	9.203	.380
MAY	2961.	1652.	.6916	.5581	9.762	.298	3.400	.2610	-.2809	.0768	8.756	.319
JUN	1660.	1135.	2.052	.6925	5.407	.642	3.131	.2748	-.0552	.0878	8.061	.676
JUL	1403.	1360.	1.853	.9698	4.625	.344	2.977	.3965	-.0334	.1332	7.666	.603
AUG	1362.	1745.	2.785	1.282	4.490	.166	2.917	.4179	.4560	.1432	7.512	.523
SEP	1302.	1374.	1.504	1.055	4.294	.454	2.885	.4701	.0013	.1630	7.428	.649

1-4750.00 MANTUA CREEK AT PITMAN, N. J.

Drainage area.--6.75 sq mi.

Remarks.--Slight regulation; probably not significant.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1942									6	19	105	57	39	72	14	17	15	6	2	7	3	1	2													4009.4
1943									38	6	39	20	39	118	29	29	22	11	5	3	4	2														4348.
1944			2	2				12	11	37	21	71	52	36	64	15	12	6	9	4	1	5	3	1			1		1							3876.5
1945									3	23	48	39	54	95	27	29	15	10	7	6	2	3				2	1			1						4512.2
1946															7	40	172	43	47	20	11	3	8	6	1			2	2			1				5174.1
1947								3	27	14	56	43	85	102	9	11	6	5	1																	3821.1
1948									20	6	69	53	32	107	13	30	10	8	5	3	5	4						1								4262.5
1949								1	43	20	61	27	25	63	18	42	32	17	6	4	2	3	1													4351.0
1950									11	26	113	75	41	54	10	11	8	6	1	1	1	3	1	2								1				3876.6
1951									10	13	53	37	20	128	24	32	14	10	3	1	6	2	1	1						1						4450.0
1952									5	1	27	36	38	69	35	69	37	13	12	8	7	1	3			2	1						2			5307.0
1953											39	54	29	53	40	57	35	23	14	7	6	4	1	2	1											5023.6
1954								14	28	12	37	23	78	41	35	50	16	10	7	7	3	1			1	2										3444.4
1955								11	6	8	32	45	97	56	33	36	12	11	5	6			2		2		1	1			1					3519.2
1956									1	17	49	86	33	33	73	23	22	15	5	2	2	3	1	1												3850.2
1957								2	44	23	10	32	21	35	55	43	54	11	18	10	1	2	2	1						1						3362.2
1958									23	8	40	24	27	64	25	37	45	26	10	9	13	6	3	2	1	1			1							5201.7
1959									33	21	43	48	50	89	26	20	9	5	2	3	5	1						1								4003.6
1960								2	3	12	34	24	117	44	32	50	16	12	4	8	1	1	1	1			2		1					1		3747.0
1961															18	29	50	94	40	45	48	22	3	3	10			1		2						4931.0
1962									1	20	163	45	32	37	17	16	12	10	4	2			3	2	1											3508.2
1963								1	31	49	28	82	56	30	30	10	13	7	11			3	3	1						1						3557.6
1964									14	11	14	56	32	57	21	31	57	20	16	14	13	5	3			1		1								3685.6
1965			1	3	6	27	28	31	29	60	93	41	7	19	5	7	4	2																		2855.3
1966			16	29	26	8	9	13	75	40	84	32	6	11	4	5	3	1				1	1	1											2351.3	
1967									6	13	66	105	41	22	43	19	17	6	8	5	2	5				3		2		1				1		4108.3

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	9496	100.0	9	6.90	630	8344	87.9	18	21.0	100	4.1	27	62	3	13	1	0.0
1	2.60	16	9496	100.0	10	7.80	1727	7714	81.2	19	23.0	85	294	3	28	70	5	10	1.0
2	2.90	30	9480	99.8	11	8.80	1040	5987	63.0	20	26.0	89	209	2.2	29	79	1	5	0.0
3	3.30	31	9450	99.5	12	10.00	932	4977	52.1	21	30.0	46	120	1.3	30	90	1	5	0.0
4	3.80	18	9419	99.2	13	11.00	1806	6015	42.3	22	34.0	19	74	0.8	31	100	2	4	0.0
5	4.20	121	9401	99.0	14	13.00	522	2209	23.3	23	38.0	20	55	0.6	32	110	1	2	0.0
6	4.80	125	9280	97.7	15	14.00	633	1687	17.8	24	43.0	12	35	0.4	33	130	1	2	0.0
7	5.40	215	9155	96.4	16	16.00	407	1054	11.1	25	49.0	7	23	0.2	34	150	1	1	0.0
8	6.10	596	8940	94.1	17	18.00	253	647	6.8	26	55.0	3	16	0.2					

1-4750.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

MAYTUA CREEK AT PITMAN, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	5.0 10	6.3 16	6.7 17	6.7 14	7.0 13	7.3 12	7.6 12	8.1 9	8.5 8	10.0 8
1942	7.9 22	7.9 22	8.2 23	8.3 20	9.2 23	9.7 22	10.1 22	10.7 22	11.6 23	12.4 20
1943	6.1 16	6.1 14	6.1 12	6.1 10	6.5 10	6.8 9	7.4 7	8.3 12	9.1 12	11.0 14
1944	3.5 3	3.6 2	4.5 5	5.1 7	5.5 7	6.6 7	7.6 10	8.2 11	8.6 9	10.6 13
1945	7.3 21	7.5 21	8.1 22	8.7 23	9.1 22	10.5 25	10.8 24	12.9 26	13.5 26	13.8 24
1946	8.7 26	8.7 26	8.7 24	9.0 24	9.8 25	10.4 24	10.9 25	11.0 23	11.1 21	12.8 21
1947	5.5 11	5.5 10	5.8 10	6.3 11	6.5 11	7.0 10	7.7 11	8.1 10	8.7 10	10.4 11
1948	8.0 23	8.0 23	8.0 20	8.3 21	8.3 20	9.1 19	9.4 20	9.7 18	10.4 18	13.2 23
1949	5.5 12	5.9 11	6.0 11	6.6 12	6.9 12	7.3 11	7.5 8	7.8 7	8.3 7	10.0 9
1950	6.1 17	6.1 15	6.4 15	7.0 17	7.8 17	9.3 20	9.6 21	10.4 21	11.1 22	12.3 17
1951	6.7 18	6.7 17	6.7 16	6.8 15	7.3 15	7.9 15	8.2 15	8.7 15	9.9 17	12.9 22
1952	8.0 24	8.5 24	9.0 25	9.3 25	9.6 24	9.8 23	10.4 23	11.6 25	12.2 24	14.1 25
1953	6.7 19	6.7 18	8.0 21	8.4 22	8.7 21	8.8 18	9.2 18	9.8 19	10.6 20	12.3 18
1954	4.2 6	4.3 5	4.5 6	4.6 4	5.0 6	5.4 4	6.0 4	6.6 4	7.3 4	8.9 3
1955	4.5 8	4.5 7	4.5 7	4.6 5	5.4 6	6.8 8	7.5 9	8.0 8	9.5 14	10.4 10
1956	5.5 13	5.9 12	6.2 13	7.0 16	7.5 16	8.0 16	8.6 16	8.7 16	9.1 13	10.6 12
1957	3.8 4	3.9 4	4.1 3	4.2 2	4.4 2	4.6 2	5.0 2	5.5 2	6.3 3	9.5 5
1958	8.0 25	8.5 25	9.0 26	9.6 26	10.2 26	10.7 26	10.9 26	11.4 24	12.2 25	14.3 26
1959	6.1 14	6.1 13	6.3 14	6.6 13	7.1 14	7.6 14	8.1 13	8.6 13	9.0 11	9.8 7
1960	4.2 5	4.5 8	5.0 8	5.3 8	6.2 9	7.4 13	8.2 14	8.7 14	10.5 19	12.3 19
1961	7.3 20	7.3 20	7.4 19	7.8 19	8.2 19	8.8 17	9.1 17	9.2 17	9.6 15	11.6 16
1962	6.1 15	6.9 19	7.3 18	7.7 18	8.0 18	9.3 21	9.4 19	9.8 20	9.8 16	11.2 15
1963	4.9 9	5.3 9	5.5 9	5.9 9	6.0 8	6.5 6	6.5 5	7.0 6	7.4 5	9.7 6
1964	4.3 7	4.4 6	4.5 4	5.1 6	5.2 5	5.7 5	6.5 6	6.8 5	7.4 6	9.0 4
1965	3.2 2	3.6 3	4.0 2	4.3 3	4.6 3	5.0 3	5.6 3	5.7 3	6.0 2	6.8 1
1966	2.6 1	2.6 1	2.7 1	2.8 1	3.1 1	3.3 1	3.4 1	4.2 1	5.7 1	7.5 2
MEAN	5.758	5.973	6.277	6.619	7.042	7.677	8.131	8.673	9.362	11.054
VARIANCE	2.834	2.857	2.971	3.160	3.359	3.715	3.581	4.080	3.918	3.764
STD DEV	1.683	1.690	1.724	1.778	1.833	1.928	1.892	2.020	1.979	1.940
SKEWNESS	-.024	-.124	-.105	-.172	-.153	-.326	-.524	-.096	.005	-.230
SE OF SKEW	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR	.152	.159	.185	.138	.128	.120	.129	.175	.142	.274
C OF VAR	.292	.283	.275	.269	.260	.251	.233	.233	.211	.176

LOGS

MEAN OF	.741	.757	.780	.804	.832	.870	.897	.926	.961	1.037
VAR OF	.019	.018	.017	.017	.015	.015	.014	.012	.009	.006
STD DEV OF	.138	.135	.130	.129	.124	.123	.116	.110	.096	.080
SKEW OF	-.577	-.712	-.728	-.844	-.823	-1.041	-1.356	-.851	-.492	-.691
SE OF SKEW OF	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR OF	.230	.229	.261	.215	.210	.205	.205	.252	.218	.358
C OF VAR OF	.186	.178	.167	.160	.149	.141	.130	.119	.100	.078

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	2.311	2.371	2.567	2.674	2.958	3.135	3.304	4.024	5.058	6.459
20.00	3.119	3.247	3.485	3.677	4.008	4.356	4.696	5.281	6.183	7.774
10.00	3.614	3.778	4.038	4.278	4.633	5.077	5.508	6.010	6.830	8.502
5.00	4.269	4.476	4.759	5.056	5.436	5.994	6.514	6.929	7.652	9.399
2.00	5.671	5.933	6.250	6.633	7.058	7.778	8.358	8.731	9.318	11.113
1.25	7.218	7.467	7.796	8.205	8.671	9.423	9.859	10.460	11.060	12.750
1.11	8.057	8.259	8.587	8.975	9.463	10.166	10.448	11.286	11.980	13.548
1.04	8.954	9.074	9.393	9.732	10.244	10.846	10.922	12.086	12.953	14.341
1.02	9.528	9.575	9.885	10.178	10.706	11.220	11.149	12.552	13.573	14.816
1.01	10.036	10.004	10.305	10.547	11.089	11.511	11.308	12.934	14.121	15.218

1-4750.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MANTUA CREEK AT PITMAN, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1942	36.0 21	25.0 23	22.0 16	18.4 13	17.7 9	14.6 13	13.4 14	12.6 15	12.3 13	11.0 12
1943	30.0 25	25.4 21	19.7 21	16.9 19	15.7 14	15.1 11	15.1 9	14.9 8	14.0 8	11.9 8
1944	59.0 13	42.7 8	24.4 11	17.7 16	15.2 18	14.8 12	13.6 13	12.7 14	12.1 15	10.6 16
1945	67.0 9	49.3 5	33.0 3	24.1 4	21.4 2	17.9 6	16.6 8	15.0 7	13.6 10	12.4 6
1946	70.0 8	52.0 4	31.7 5	21.0 6	18.7 8	17.9 7	16.9 7	15.8 6	14.9 6	14.2 3
1947	33.0 23	21.0 24	17.6 24	14.1 24	13.6 23	12.1 24	11.7 23	11.4 22	11.5 20	10.5 18
1948	58.0 14	33.1 15	22.2 15	18.4 14	17.1 12	15.2 10	14.7 11	14.4 11	13.7 9	11.6 10
1949	37.0 20	26.8 19	21.8 19	20.0 11	18.8 6	17.8 8	17.3 5	16.7 5	15.5 5	11.9 9
1950	92.0 4	46.2 6	28.6 6	20.5 9	15.3 17	12.6 22	12.7 18	11.6 20	11.4 21	10.6 15
1951	74.0 6	42.4 9	26.7 9	21.3 8	17.2 11	15.5 9	14.8 10	14.6 9	14.5 7	12.2 7
1952	107.0 3	52.5 3	32.2 4	22.6 5	18.8 7	18.2 5	17.8 5	17.3 3	17.1 2	14.5 1
1953	45.0 17	31.0 18	24.4 12	21.4 7	19.0 5	18.7 4	18.1 2	17.7 1	16.5 3	13.8 4
1954	42.0 18	26.3 20	19.1 22	16.1 23	13.5 24	13.1 21	12.3 21	11.5 21	11.1 22	9.4 23
1955	77.0 5	37.7 11	25.3 10	17.8 15	13.9 22	12.2 23	11.0 24	10.4 24	10.3 24	9.6 22
1956	34.0 22	25.0 22	19.1 23	16.7 21	15.5 16	14.1 16	13.6 12	12.8 13	11.6 18	10.5 16
1957	65.0 10	34.7 12	23.0 14	16.8 20	14.4 21	13.2 20	12.5 20	12.3 17	11.9 16	9.2 24
1958	65.0 11	40.0 10	27.9 7	25.3 2	21.3 3	20.4 1	19.2 1	17.6 2	17.5 1	14.3 2
1959	59.0 12	33.7 13	21.9 17	17.3 18	14.9 19	13.5 18	12.6 19	12.3 18	12.2 14	11.0 13
1960	146.0 2	67.0 2	35.3 2	24.2 3	17.6 10	13.3 19	11.7 22	10.8 23	10.5 23	10.2 19
1961	47.0 16	31.7 16	23.9 13	20.0 12	19.5 4	19.0 3	17.7 4	16.8 4	15.6 4	13.5 5
1962	42.0 19	31.3 17	21.9 18	17.6 17	15.6 15	14.4 15	12.8 17	12.5 16	11.8 17	10.5 17
1963	70.0 7	43.3 7	27.3 8	20.1 10	17.0 13	14.5 14	13.2 15	12.2 19	11.5 19	9.7 21
1964	48.0 15	33.3 14	20.9 20	16.5 22	14.8 20	13.8 17	13.1 16	13.4 12	12.7 12	10.0 20
1965	23.0 26	15.5 26	12.7 26	10.6 26	10.3 25	10.1 25	9.9 25	9.5 25	9.2 25	7.8 25
1966	32.0 24	17.8 25	13.0 25	10.9 25	9.6 26	8.6 26	8.5 26	8.2 26	7.6 26	6.4 26
1967	194.0 1	80.3 1	53.1 1	32.9 1	27.3 1	20.1 2	17.1 6	14.6 10	13.2 11	11.3 11
MEAN	63.538	37.115	24.950	19.231	16.681	15.027	14.150	13.446	12.838	11.100
VARIANCE	1431.937	218.247	64.112	20.798	12.917	8.883	7.536	6.528	5.754	3.850
STD DEV	37.841	14.773	8.007	4.561	3.594	2.980	2.745	2.555	2.399	1.962
SKENNESS	2.100	1.176	1.690	.742	.685	.044	.077	.052	.141	-.118
SE OF SKEW	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR	-.144	-.094	-.131	-.070	-.132	-.055	-.008	.044	.145	.247
C OF VAR	.596	.398	.321	.237	.215	.198	.194	.190	.187	.177

LOGS

MEAN OF	1.747	1.539	1.378	1.272	1.213	1.168	1.143	1.121	1.101	1.038
VAR OF	.046	.028	.017	.011	.009	.008	.008	.007	.007	.007
STD DEV OF	.215	.167	.129	.104	.094	.090	.087	.085	.084	.081
SKEW OF	.610	.047	.208	-.371	-.311	-.527	-.376	-.390	-.439	-.781
SE OF SKEW OF	.456	.456	.456	.456	.456	.456	.456	.456	.456	.456
SER CORR OF	-.063	.001	-.012	.051	-.026	.006	.037	.077	.176	.285
C OF VAR OF	.123	.108	.094	.082	.078	.077	.076	.076	.076	.078

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	22.055	14.358	12.519	10.041	9.374	8.427	8.262	7.922	7.589	6.385
1.05	27.146	18.496	14.915	12.317	11.209	10.199	9.799	9.376	8.994	7.757
1.11	30.815	21.193	16.435	13.652	12.274	11.205	10.678	10.204	9.789	8.514
1.25	36.502	25.016	18.550	15.379	13.644	12.473	11.792	11.252	10.790	9.441
2.00	53.108	34.469	23.640	18.996	16.497	15.000	14.062	13.375	12.796	11.189
5.00	82.965	47.695	30.568	22.977	19.633	17.583	16.473	15.614	14.875	12.815
10.00	107.921	56.616	35.171	25.176	21.370	18.922	17.773	16.814	15.971	13.585
25.00	146.235	68.063	41.031	27.590	23.287	20.319	19.176	18.103	17.134	14.331
50.00	180.295	76.715	45.440	29.178	24.556	21.198	20.088	18.936	17.877	14.769
100.00	219.616	85.475	49.893	30.621	25.715	21.968	20.908	19.684	18.538	15.130

STATISTICS OF MONTHLY MEANS, 1942-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1942-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	9.571	1.946	.4298	.2033	7.178	.739	.9724	.0879	.0418	.0904	7.893	.728
NOV	10.89	1.984	-.2613	.1821	8.171	.497	1.030	.0839	-.7355	.0815	8.358	.530
DEC	10.88	2.446	.7561	.2248	8.161	.681	1.027	.0951	.1836	.0926	8.332	.698
JAN	11.58	2.550	.2802	.2202	8.683	.720	1.053	.0972	-.2023	.0932	8.550	.734
FEB	12.32	2.374	.3546	.1927	9.241	.793	1.083	.0836	.0290	.0772	8.790	.773
MAR	13.57	2.936	.3016	.2164	10.18	.758	1.123	.0953	-.1878	.0849	9.112	.756
APR	12.67	3.031	.4518	.2393	9.499	.839	1.091	.1034	.0520	.0948	8.854	.834
MAY	11.69	3.333	.3877	.2852	8.766	.792	1.050	.1260	-.1537	.1200	8.526	.789
JUN	9.918	2.856	.6387	.2879	7.438	.728	.9793	.1249	-.0985	.1276	7.949	.718
JUL	9.976	3.971	.7021	.3981	7.482	.558	.9644	.1821	-.4742	.1888	7.828	.662
AUG	10.47	5.182	1.406	.4949	7.853	.609	.9740	.2029	.0831	.2083	7.906	.742
SEP	9.803	2.922	.7749	.2981	7.352	.623	.9735	.1265	.1308	.1300	7.902	.694

1-4766.00 STILL RUN NEAR MICKLETON, N. J.

Location.--Lat 39°47'19", long 75°15'27", 1 mile west of Mickleton.

Drainage area.--3.95 sq mi.

Remarks.--Diversion significant at low flow during growing season.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1958												3	10	10	18	42	48	54	49	33	26	14	11	19	11	8	4	3	1	1					2441.9
1959						2	1	3	2	4	18	15	20	40	31	43	63	67	28	8	5	3	3	6	1	1			1					1444.3	
1960							2	2	2	1	3	15	35	60	50	75	40	23	10	14	5	13	6	6	1					1	1	1		2155.8	
1961												4	12	13	28	53	66	40	40	39	13	21	14	6	3	8	1	1	1	1	1	1		2537.8	
1962													10	17	72	62	66	52	42	27	10	6	4	3		5	1	3	1	1				1829.3	
1963										1	13	10	10	33	53	29	45	62	42	25	9	8	13	4	3	1	2				1			1773.5	
1964											11	8	8	5	25	18	52	35	32	39	39	39	13	15	7	8	1	3	2	1	2	1		2197.4	
1965																																		1	1352.7
1966																																			1176.7

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	3287	100.0	9	1.10	56	3205	97.5	18	5.2	304	1020	31.0	27	25	11	33	1.0
1	0.20	1	3287	100.0	10	1.30	81	3149	95.8	19	6.2	220	716	21.8	28	29	6	22	.6
2	0.30	2	3286	100.0	11	1.60	94	3068	93.3	20	7.4	153	496	15.1	29	35	6	14	.4
3	0.40	3	3284	99.9	12	1.90	127	2974	90.5	21	8.8	76	343	10.4	30	41	5	8	.2
4	0.50	6	3291	99.8	13	2.20	219	2847	86.6	22	10.0	77	267	8.1	31	49	1	3	.0
5	0.60	14	3275	99.4	14	2.60	332	2628	80.0	23	12.0	70	190	5.9	32	58	2	2	.0
6	0.70	9	3261	99.2	15	3.10	381	2296	69.9	24	15.0	38	120	3.7	33				
7	0.80	11	3252	98.9	16	3.70	427	1915	58.3	25	17.0	28	82	2.5	34				
8	0.90	36	3241	98.6	17	4.40	468	1488	45.3	26	21.0	21	54	1.6					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

STILL RUN NEAR MICKLETON, N.J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1958	1.2 6	1.4 6	2.3 7	2.7 7	3.7 8	4.1 8	4.3 8	4.4 7	4.7 7	6.0
1959	0.6 3	0.7 3	0.8 2	1.1 2	1.6 3	2.1 2	2.4 1	2.4 1	2.9 1	4.3
1960	0.9 4	1.0 4	1.3 4	1.9 4	2.7 5	3.5 6	3.8 6	4.4 8	6.3 8	7.1
1961	2.0 7	2.1 7	2.2 6	2.6 6	2.8 6	2.9 4	3.0 3	3.2 3	3.7 5	5.3
1962	2.4 8	2.5 8	2.5 8	2.8 8	3.3 7	3.7 7	4.3 7	4.3 6	4.7 6	5.7
1963	1.2 5	1.4 5	1.7 5	2.1 5	2.4 4	3.0 5	3.0 4	3.4 5	3.3 3	5.6
1964	0.3 2	0.6 2	0.9 3	1.1 3	1.4 2	2.5 3	3.0 5	3.2 4	3.5 4	4.3
1965	0.2 1	0.3 1	0.6 1	0.9 1	1.1 1	1.4 1	2.5 2	2.8 2	3.0 2	3.5

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

STILL RUN NEAR MICKLETON, N.J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1958	38.0 7	22.0 6	15.3 7	12.4 4	10.6 4	9.6 4	8.8 3	8.7 3	8.2 3	6.7
1959	30.0 9	17.9 9	10.0 9	7.0 9	5.9 9	5.4 7	5.1 7	5.0 7	4.9 7	4.0
1960	137.0 1	64.0 1	35.1 1	23.1 1	14.4 1	9.9 3	8.1 4	6.9 4	6.3 4	5.9
1961	52.0 3	28.7 2	20.1 2	15.2 2	13.5 2	12.4 1	10.8 1	10.2 1	8.9 1	7.0
1962	36.0 8	19.2 8	11.0 8	9.7 8	8.6 6	7.7 6	6.8 6	6.5 6	6.0 6	5.0
1963	43.0 5	26.7 4	16.1 5	11.2 5	9.3 5	8.1 5	7.2 5	6.9 5	6.2 5	4.9
1964	43.0 6	27.3 3	17.1 4	14.6 3	12.3 3	10.7 2	10.4 2	9.5 2	8.4 2	6.0
1965	58.0 2	26.2 5	17.8 3	10.7 7	6.0 8	5.1 8	4.9 8	4.8 8	4.4 8	3.7
1966	46.0 4	21.4 7	15.5 6	11.1 6	6.8 7	4.9 9	4.2 9	3.9 9	3.8 9	3.2

STATISTICS OF MONTHLY MEANS, 1958-1966

	MEAN	STD DEV	SKREW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	3.933	1.420	1.396	.3611	6.361	.775
NOV	5.077	2.191	1.348	.4316	8.210	-.114
DEC	5.428	1.689	.3572	.3111	8.779	.646
JAN	6.239	2.822	1.015	.4523	10.09	.852
FEB	6.526	1.933	.9598	.2962	10.55	.522
MAR	6.659	2.359	.5527	.3542	10.77	.685
APR	6.096	2.485	.6219	.4076	9.859	.715
MAY	4.324	1.936	.5878	.4478	6.993	.786
JUN	3.692	1.883	.3332	.5099	5.971	.739
JUL	4.817	2.418	.4696	.5020	7.791	.524
AUG	3.838	2.016	.6901	.5255	6.206	.716
SEP	5.205	3.622	2.563	.6960	8.417	-.007

STATISTICS OF LOGS OF MONTHLY MEANS, 1958-1966

	MEAN	STD DEV	SKREW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	.5732	.1398	1.003	.2438	7.186	.733
NOV	.6736	.1730	.5070	.2569	8.445	-.060
DEC	.7149	.1423	-.5050	.1990	8.962	.526
JAN	.7564	.1967	-.1198	.2600	9.482	.831
FEB	.7983	.1260	.0560	.1579	10.01	.534
MAR	.7996	.1520	.2230	.1901	10.02	.584
APR	.7518	.1837	-.2663	.2444	9.425	.688
MAY	.5957	.2015	-.1493	.3382	7.469	.709
JUN	.5088	.2511	-.5088	.4935	6.378	.776
JUL	.6198	.2744	-1.284	.4427	7.770	.552
AUG	.5271	.2432	-.2808	.4614	6.607	.759
SEP	.6574	.2144	1.890	.3261	8.242	-.065

1-4775.00 OLDMANS CREEK NEAR WOODSTOWN, N. J.

Location.--Lat 39°41'27", long 75°19'09", at upstream side of bridge on Woodstown-Swedesboro highway.

Drainage area.--19.3 sq mi.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1932	30	20	44	45	26	29	28	30	35	22	22	6	7	8	2	1	7	2	1																		5968.3
1933	3	7	2	17	14	29	17	17	27	37	35	26	38	30	21	15	11	4	7	4																11634.1	
1934			11	4	12	18	39	56	61	48	32	22	26	6	9	6	6	1	2	2	1	2							1						8922.9		
1935				4	26	21	23	27	48	35	37	30	39	28	16	14	3	5	4	1	3														10538.0		
1936			15	17	31	25	37	18	19	30	19	20	33	28	21	13	8	13	5	3	4	1	3	1												11869.0	
1937		1	5	42	45	33	24	28	24	27	29	30	27	15	12	8	5	4	2	2	1	1														8500.8	
1938			2	6	28	34	37	39	76	42	24	26	13	5	8	9	2	3	3																	11753.4	
1939			6	33	20	19	19	14	17	41	42	27	37	18	20	13	14	2	5	8	2	5														13686.8	
1940			9	35	62	36	30	19	47	25	24	21	12	12	4	7	4	4	3	1	1	3	1	2												12461.1	

CFS_DAYS
5968.3
11634.1
8922.9
10538.0
11869.0
8500.8
11753.4
13686.8
12461.5

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	3288	100.0	9	17.00	286	1990	60.5	18	70.0	49	164	5.0	27	280	1	11	.3					
1	5.10	33	3288	100.0	10	20.00	339	1704	51.8	19	81.0	29	115	3.5	28	320	2	10	.3					
2	6.00	28	3255	99.0	11	24.00	282	1365	41.5	20	95.0	24	86	2.6	29	380	4	8	.2					
3	6.70	77	3227	98.1	12	28.00	224	1083	32.9	21	110.0	18	62	1.9	30	440	2	4	.1					
4	8.10	144	3150	95.8	13	32.00	244	859	26.1	22	130.0	11	44	1.3	31	610								
5	9.40	229	3004	91.4	14	38.00	177	615	18.7	23	150.0	12	33	1.0	32	600								
6	11.00	285	2776	84.4	15	44.00	116	438	13.3	24	180.0	2	21	0.6	33	700	1	2	.0					
7	13.00	259	2511	76.4	16	51.00	89	322	9.8	25	200.0	6	19	0.6	34	820	1	1	.0					
8	15.00	262	2252	68.5	17	60.00	69	233	7.1	26	240.0	2	13	0.4										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

OLDMANS CREEK NEAR WOODSTOWN, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1932	5.1	5.1	5.1	5.6	5.9	6.6	8.0	8.4	11.0	21.7
1933	8.1	8.1	8.1	10.3	12.2	14.7	18.0	21.1	23.2	28.7
1934	6.9	7.1	7.5	8.3	11.9	15.1	19.4	21.6	23.5	28.4
1935	8.9	9.1	9.8	10.8	12.7	15.1	16.9	18.4	22.7	35.6
1936	7.2	7.5	7.5	7.8	9.4	9.9	10.8	10.7	12.6	22.7
1937	6.7	7.1	7.8	9.1	10.5	12.4	14.3	17.2	20.6	25.1
1938	8.8	9.8	10.4	11.2	13.3	15.4	16.6	32.2	35.2	40.9
1939	9.3	9.3	9.5	10.1	11.5	12.7	13.6	14.9	16.6	25.2

MEAN	7.625	7.950	8.412	9.150	10.925	12.737	16.575	18.062	20.675	28.537
VARIANCE	1.996	2.394	3.104	3.471	5.636	9.706	50.968	54.291	57.836	43.791
STD DEV	1.413	1.547	1.762	1.863	2.374	3.115	7.139	7.368	7.605	6.617
SKEWNESS	-.597	-.714	-.841	-.952	-1.542	-1.268	1.338	.745	.698	1.081
SE OF SKEW	.752	.752	.752	.752	.752	.752	.752	.752	.752	.752
SER CORR	-.133	-.195	-.435	-.415	-.232	-.209	-.255	-.236	-.275	-.404
C OF VAR	.185	.195	.209	.204	.217	.245	.431	.408	.368	.232

LOGS

MEAN OF	.875	.892	.915	.952	1.027	1.091	1.187	1.224	1.289	1.446
VAR OF	.007	.009	.010	.010	.013	.016	.032	.034	.027	.009
STD DEV OF	.086	.092	.101	.099	.114	.127	.178	.183	.163	.095
SKEW OF	-.967	-1.130	-1.279	-1.358	-1.961	-1.663	.178	-.288	-.177	.780
SE OF SKEW OF	.752	.752	.752	.752	.752	.752	.752	.752	.752	.752
SER CORR OF	-.158	-.218	-.435	-.406	-.224	-.221	-.228	-.218	-.266	-.394
C OF VAR OF	.099	.103	.111	.104	.111	.117	.150	.150	.126	.066

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	14	30	60	90	120	183	ANNUAL
100.00	4.128	4.034	3.898	4.271	4.155	4.514	6.250	5.751	7.752	19.063
20.00	5.169	5.213	5.252	5.764	6.308	6.917	8.002	8.104	10.317	20.587
10.00	5.745	5.869	6.018	6.602	7.554	8.352	9.168	9.650	11.962	21.630
5.00	6.446	6.666	6.951	7.617	9.052	10.137	10.857	11.835	14.253	23.161
2.00	7.741	8.116	8.636	9.419	11.517	13.309	15.196	17.100	19.686	27.150
1.25	8.887	9.342	10.011	10.840	13.060	15.633	21.639	24.010	26.769	33.126
1.11	9.399	9.860	10.562	11.388	13.489	16.418	26.212	28.354	31.241	37.386
1.04	9.869	10.311	11.016	11.825	13.736	16.963	32.331	33.580	36.668	43.110
1.02	10.131	10.548	11.242	12.034	13.819	17.186	37.134	37.293	40.564	47.625
1.01	10.337	10.727	11.403	12.178	13.861	17.321	42.145	40.862	44.348	52.359

1-4775.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

OLDMANS CREEK NEAR WOODSTOWN, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1932	209.0 8	105.0 8	69.3 9	50.7 9	41.1 8	32.4 9	28.7 9	27.5 9	23.5 9	16.3 9
1933	405.0 4	294.0 3	167.0 3	109.0 3	77.6 4	47.4 5	42.1 5	39.5 5	35.9 4	31.9 5
1934	298.0 6	130.0 7	73.7 8	52.4 8	40.7 9	34.5 8	31.8 8	29.3 8	27.0 8	24.4 7
1935	490.0 3	233.0 4	127.0 5	73.9 6	52.1 6	46.7 6	42.1 6	38.9 6	34.3 6	28.9 6
1936	370.0 5	190.0 5	120.0 6	89.0 5	67.0 5	61.0 3	58.0 2	53.6 2	48.9 2	32.4 3
1937	131.0 9	92.7 9	81.1 7	56.2 7	45.1 7	39.8 7	36.8 7	34.1 7	29.6 7	23.3 8
1938	817.0 2	441.0 2	211.0 2	109.0 2	74.8 3	50.6 4	51.0 4	43.4 4	35.2 5	32.2 4
1939	254.0 7	153.0 6	137.0 4	104.0 4	79.7 2	69.5 2	71.7 1	61.4 1	53.6 1	37.5 1
1940	2500.0 1	1010.0 1	479.0 1	241.0 1	133.0 1	75.2 1	54.4 3	51.3 3	47.6 3	34.0 2

MEAN	617.111	296.522	162.789	97.911	67.344	50.789	46.289	42.111	37.289	28.989
VARIANCE	539555.000	87600.500	16182.273	3422.577	834.067	225.344	189.411	131.133	109.691	42.801
STD DEV	734.544	295.974	127.210	58.503	28.880	15.011	13.763	11.451	10.473	6.542
SKEWNESS	2.596	2.313	2.305	2.123	1.561	.484	.565	.394	.391	-.852
SE OF SKEW	.717	.717	.717	.717	.717	.717	.717	.717	.717	.717
SER CORR	-.403	-.390	-.049	.225	.334	.427	.257	.219	.153	-.044
C OF VAR	-1.190	.998	.781	.598	.429	.296	.297	.272	.281	.226

LOGS

MEAN OF	2.619	2.340	2.129	1.939	1.798	1.689	1.649	1.610	1.556	1.451
VAR OF	.139	.110	.069	.045	.028	.016	.017	.014	.015	.012
STD DEV OF	.373	.332	.263	.213	.167	.128	.129	.119	.122	.111
SKEW OF	1.030	1.034	1.082	.975	.688	.091	.046	-.002	.033	-1.326
SE OF SKEW OF	.717	.717	.717	.717	.717	.717	.717	.717	.717	.717
SER CORR OF	-.554	-.548	-.159	.058	.170	.327	.251	.202	.129	-.112
C OF VAR OF	.142	.142	.124	.110	.093	.076	.078	.074	.079	.077

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENT INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	108.289	66.101	53.272	39.519	31.195	25.100	22.548	21.555	18.809	12.331
1.05	135.528	80.654	61.762	45.345	36.220	30.320	27.434	25.977	22.700	17.208
1.11	158.762	92.821	68.708	49.856	39.760	33.589	30.483	28.694	25.108	20.020
1.25	200.340	114.136	80.542	57.200	45.125	38.081	34.660	32.366	28.383	23.490
2.00	359.778	192.148	121.014	80.317	60.089	48.649	44.418	40.746	35.945	29.819
5.00	794.518	389.095	211.877	126.117	85.164	62.541	57.105	51.290	45.620	34.984
10.00	1314.992	609.594	303.519	167.562	104.917	71.497	65.202	57.844	51.719	37.028
25.00	2417.691	1049.029	469.708	235.770	133.793	82.624	75.180	65.756	59.163	38.690
50.00	3731.457	1544.637	641.899	300.435	158.378	90.813	82.468	71.432	64.555	39.499
100.00	5668.902	2242.739	867.928	379.240	185.801	98.942	89.657	76.954	69.841	40.069

STATISTICS OF MONTHLY MEANS, 1932-1940.

STATISTICS OF LOGS OF MONTHLY MEANS, 1932-1940

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	20.14	8.661	.5878	.4301	5.770	.619	1.268	.1893	.0299	.1493	7.556	.718
NOV	25.92	13.01	.0814	.5018	7.427	.483	1.355	.2517	-.4954	.1858	8.076	.597
DEC	24.69	9.801	.7276	.3970	7.072	.688	1.362	.1759	-.1644	.1292	8.115	.711
JAN	33.18	13.70	1.117	.4130	9.507	.589	1.489	.1793	-.2498	.1204	8.873	.664
FEB	37.39	18.15	.8247	.4854	10.71	.628	1.528	.2113	.0453	.1383	9.105	.583
MAR	40.93	10.13	.7476	.2476	11.73	.760	1.601	.1056	.1355	.0660	9.539	.575
APR	39.16	16.52	1.279	.4218	11.22	.867	1.562	.1696	.5332	.1086	9.310	.873
MAY	25.25	7.113	1.004	.2817	7.235	.605	1.388	.1157	.5949	.0833	8.273	.693
JUN	22.98	13.56	2.131	.5900	6.584	-.260	1.311	.2079	1.079	.1586	7.815	-.223
JUL	15.68	7.286	1.859	.4646	4.493	.781	1.162	.1726	.9355	.1485	6.926	.635
AUG	24.82	14.27	1.444	.5752	7.109	.251	1.336	.2406	.0824	.1802	7.960	.474
SEP	38.91	38.97	1.965	1.002	11.15	-.010	1.418	.4141	.1340	.2920	8.452	.378

1-4825.00 SALEM RIVER AT WOODSTOWN, N. J.

Location.--Lat 39°38'36", long 74°19'52", on Memorial Lake Dam.

Drainage area.--14.6 sq mi.

Remarks.--Regulation reduces flood peaks and is significant at low flow.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1943										1	21	2	32	26	25	40	50	62	37	20	18	8	3	8	8	1	1	2							6999.1
1944								2	7	13	1	15	31	39	67	42	57	27	27	6	6	4	4	5	4	2	2	2	3	2					7943.4
1945								7	10	7	16	32	47	63	29	46	34	14	25	12	9	4	2	3	2	2				1					7162.2
1946										5	5		4	6	33	65	31	97	45	20	15	10	9	2	10	3	2			3					8344.7
1947										8	24		28	19	23	35	44	91	40	13	2	9	5	2	1	1									5747.9
1948										2	4	1	17	34	15	61	37	55	31	29	26	27	13	2	5	1	3	1	1			1			8612.2
1949	3			1						7	7	12	2	14	23	39	36	24	50	36	40	31	12	5	12	2	3	4	1	1					8130.3
1950								1	4	10	15		7	40	28	70	39	78	23	21	11	8	4	3		1					1				5922.5
1951	1						4			4	1	41	30	47	35	25	75	45	18	15	9	1	6	5			1	1					1		7180.1
1952								2	1	2		3	16	37	46	23	69	48	49	21	13	13	8	6	4	1			3			1			9594.8
1953													26	35	21	30	34	32	43	41	21	15	8	7	4	3	3	2							6277.4
1954		17	12		7	10				17	29	24	19	18	20	69	41	34	17	12	5	7	3	3					1						3893.8
1955		20	10		4	8				11	24	22	41	31	28	50	28	28	26	12	6	2	4	5	3			1				1			4613.2
1956													6	13	37	32	68	71	21	39	30	19	7	9	5	4	2	1	2						5361.9
1957			5							7	20	18	13	22	20	26	16	31	27	49	55	21	14	8	5	5	1	1				1			5785.6
1958										1	4	4	10	3	15	58	29	70	52	28	22	14	13	13	14	8	4	2				1			10653.9
1959										2		11	17	34	21	54	57	65	54	18	5	10	8	6	2	1									5947.5
1960										1	2	17	25	29	21	51	25	64	64	18	14	13	4	5	4	1	2	1					1		7360.7
1961								1		1		1	4	12	36	52	41	60	55	39	23	13	9	6	4	4	1	1	1	1					8429.6
1962										1		2	17	19	20	126	37	48	41	21	11	6	5	7		2	1	1							6116.5
1963		4		5		9	10			15	22	21	23	30	39	45	38	40	30	10	8	4	6	1	1	2	1	1							4659.1
1964		3		6		5	7			4	6	12	16	22	30	66	38	56	40	19	12	1	9	7	4	3									5859.6
1965		1		1			5			8	25	40	45	24	43	74	25	29	22	10	5	2	4	1		1									3718.4
1966					26	15	26	6	3	2	10	16	73	71	50	19	8	13	10	6	4	4		2		1									2084.5
1967										3	6	15	28	26	40	72	40	46	34	14	13	11	4	3	1	2	2	3		2					6775.1
CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	
0	0.00	4	9131	100.0	9	1.90	142	8845	96.9	18	18.0	975	2596	28.4	27	180	22	48	.5	27	180	22	48	.5	27	180	22	48	.5	27	180	22	48	.5	
1	0.20	54	9127	100.0	10	2.50	260	8703	95.3	19	24.0	537	1621	17.8	28	230	12	26	.2	28	230	12	26	.2	28	230	12	26	.2	28	230	12	26	.2	
2	0.30	0	9073	99.4	11	3.20	290	8443	92.5	20	30.0	360	1084	11.9	29	290	6	14	.1	29	290	6	14	.1	29	290	6	14	.1	29	290	6	14	.1	
3	0.40	61	9073	99.4	12	4.10	576	8153	89.3	21	39.0	229	724	7.9	30	380	4	8	.0	30	380	4	8	.0	30	380	4	8	.0	30	380	4	8	.0	
4	0.50	15	9012	98.7	13	5.20	648	7577	83.0	22	50.0	155	495	5.4	31	480	2	4	.0	31	480	2	4	.0	31	480	2	4	.0	31	480	2	4	.0	
5	0.70	51	8997	98.5	14	6.70	770	6929	75.9	23	65.0	124	340	3.7	32	620	1	2	.0	32	620	1	2	.0	32	620	1	2	.0	32	620	1	2	.0	
6	0.90	10	8946	98.0	15	8.70	1375	6159	67.5	24	83.0	85	216	2.4	33	800	1	1	.0	33	800	1	1	.0	33	800	1	1	.0	33	800	1	1	.0	
7	1.20	52	8936	97.9	16	11.00	838	4784	52.4	25	110.0	50	131	1.4	34																				
8	1.50	39	8884	97.3	17	14.00	1350	3946	43.2	26	140.0	33	81	0.9																					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

SALEM RIVER AT WOODSTOWN, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	2.0 17	2.3 17	3.1 15	3.5 11	4.1 9	5.7 11	6.5 11	8.9 13	10.8 12	18.5 15
1943	2.3 18	3.1 22	3.1 16	3.1 10	3.7 8	4.7 8	5.2 9	6.3 7	10.9 14	18.9 16
1944	1.7 14	1.9 14	2.1 11	4.3 17	5.3 15	7.2 16	13.1 23	12.2 22	14.8 21	21.8 20
1945	2.3 19	2.3 19	2.6 12	4.4 18	5.3 16	8.3 22	10.7 22	12.6 23	13.8 20	20.0 17
1946	5.1 24	6.4 24	7.0 24	7.6 24	9.3 24	11.4 24	14.3 24	14.3 24	17.2 23	20.3 18
1947	2.3 20	2.3 19	2.8 14	3.6 12	4.2 10	4.9 9	5.0 7	6.8 9	9.5 7	17.8 13
1948	1.7 15	1.9 15	2.6 13	4.9 19	6.1 20	6.6 13	7.3 13	12.1 21	15.8 22	26.6 25
1949	0.0 1	0.0 1	1.6 8	2.4 9	5.0 13	8.6 23	9.3 19	10.3 16	11.3 16	15.9 7
1950	0.0 2	1.5 12	1.9 10	2.1 7	5.1 14	7.3 19	9.6 20	11.1 19	13.7 19	20.5 19
1951	1.0 12	1.0 11	3.5 18	3.9 13	4.4 11	5.7 10	6.3 10	8.4 11	10.8 13	23.5 22
1952	1.7 16	1.9 16	4.2 22	5.3 21	6.2 21	7.2 17	8.1 14	11.9 20	13.5 18	22.8 21
1953	0.2 3	0.3 7	4.0 21	5.0 20	5.6 19	6.1 12	7.0 12	8.0 10	9.7 8	16.9 10
1954	0.2 4	0.2 2	0.2 1	0.2 1	0.5 3	1.1 2	1.9 2	3.1 2	4.0 2	9.8 2
1955	0.2 5	0.2 3	0.2 2	0.2 2	0.4 1	3.5 6	5.1 8	6.6 8	11.3 17	14.9 6
1956	2.8 21	2.8 20	3.2 17	4.2 15	5.4 17	6.9 15	8.5 15	8.8 12	9.7 9	17.7 12
1957	0.2 6	0.2 4	1.3 6	1.5 6	1.7 6	2.2 3	3.8 5	4.5 4	5.9 5	17.6 11
1958	7.3 25	7.3 25	9.0 25	10.4 25	12.6 25	15.3 25	17.2 25	17.9 25	18.9 25	25.4 24
1959	0.2 7	0.2 5	1.6 9	4.3 16	5.0 12	7.3 18	9.7 21	10.9 18	10.7 11	16.7 8
1960	2.8 22	3.1 21	3.8 19	4.0 14	5.4 18	6.8 14	8.6 16	10.6 17	17.5 24	24.0 23
1961	1.3 13	1.8 13	3.9 20	5.8 22	7.1 23	8.1 21	8.9 17	9.5 15	11.1 15	18.2 14
1962	3.7 23	4.1 23	5.1 23	6.0 23	6.6 22	7.6 20	9.1 18	9.0 14	10.0 10	16.9 9
1963	0.2 8	0.3 3	0.7 5	0.7 5	1.4 4	2.2 4	3.7 4	4.5 5	5.8 4	13.5 5
1964	0.2 9	0.2 6	0.4 3	0.5 4	1.6 5	3.6 7	4.7 6	5.0 6	6.0 6	12.5 4
1965	0.2 10	0.6 10	1.5 7	2.2 8	2.6 7	2.8 5	3.1 3	3.4 3	3.9 1	6.9 1
1966	0.4 11	0.4 9	0.4 4	0.4 3	0.4 2	0.5 1	1.2 1	2.2 1	4.5 3	11.6 3

1-4825.00 SALEM RIVER AT WOODSTOWN, N. J.

LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1 [†]	3 [†]	7	14	30	60	90	120	183	ANNUAL
MEAN	1.739	1.929	2.792	3.620	4.600	6.064	7.516	8.756	10.844	17.96
VARIANCE	3.219	3.604	4.394	5.971	7.916	10.463	14.496	14.490	17.836	22.89
STD DEV	1.794	1.898	2.096	2.444	2.814	3.235	3.807	3.807	4.223	4.78
SKEWNESS	1.624	1.506	1.240	.692	.691	.678	.633	.228	.028	-.33
SE OF SKEW	.481	.472	.464	.464	.464	.464	.464	.464	.464	.46
SER CORR	-.155	-.128	-.032	.126	.085	.121	.179	.263	.225	.38
C OF VAR	1.032	.984	.751	.675	.612	.533	.507	.435	.389	.26

LOGS

MEAN OF	-.033	.038	.287	.394	.537	.698	.811	.894	.997	1.23
VAR OF	.303	.276	.196	.226	.164	.105	.071	.050	.039	.01
STD DEV OF	.550	.525	.443	.475	.405	.323	.266	.224	.197	.13
SKEW OF	-.168	-.273	-1.002	-1.255	-1.336	-1.561	-1.027	-.856	-.780	-1.25
SE OF SKEW OF	.481	.472	.464	.464	.464	.464	.464	.464	.464	.46
SER CORR OF	.076	.036	.252	.313	.288	.233	.298	.395	.364	.46
C OF VAR OF	-16.554	13.928	1.547	1.208	.753	.463	.328	.251	.198	.10

† Zero flow values excluded in computation of statistics.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1 ^{††}	3 ^{††}	7	14	30	60	90	120	183	ANNUAL
100.00	.042	.052	.088	.076	.169	.407	1.007	1.727	2.693	6.46
20.00	.109	.137	.285	.303	.571	1.161	2.046	3.013	4.321	9.55
10.00	.179	.225	.492	.571	.990	1.852	2.848	3.926	5.419	11.41
5.00	.323	.402	.893	1.119	1.771	3.004	4.077	5.253	6.967	13.79
2.00	.960	1.152	2.287	3.093	4.213	6.003	7.169	8.426	10.530	18.36
1.25	2.716	3.055	4.612	6.214	7.509	9.188	10.883	12.183	14.645	22.35
1.11	4.587	4.934	6.111	8.021	9.216	10.531	12.849	14.227	16.878	24.02
1.04	7.904	8.046	7.790	9.823	10.790	11.586	14.812	16.354	19.223	25.43
1.02	11.145	10.904	8.857	10.837	11.618	12.063	15.960	17.661	20.681	26.15
1.01	15.101	14.217	9.771	11.620	12.227	12.373	16.892	18.770	21.935	26.67

†† Zero flow values excluded in computation of curve.

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SALEM RIVER AT WOODSTOWN, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1943	221.0 16	119.0 16	69.8 17	49.7 16	38.1 16	34.3 11	32.8 9	30.8 11	28.5 8	19.
1944	340.0 9	211.0 5	108.0 7	63.8 8	42.8 12	38.0 8	31.3 12	31.8 8	28.0 9	21.
1945	330.0 11	138.0 15	77.2 16	50.9 14	41.3 14	31.7 15	31.4 11	30.9 10	25.5 12	19.
1946	272.0 13	159.0 10	112.0 5	68.3 6	45.6 9	38.8 7	33.6 8	31.5 9	27.7 10	22.
1947	112.0 24	68.3 22	42.3 24	35.5 23	29.1 20	26.3 19	25.7 18	23.7 18	21.5 17	15.
1948	455.0 6	187.3 7	98.1 10	58.9 12	46.0 8	37.1 9	33.9 7	33.7 6	31.9 6	23.
1949	265.0 14	149.0 13	84.4 12	67.0 7	54.7 4	48.6 4	43.9 4	41.2 4	34.6 3	22.
1950	473.0 5	186.0 8	94.4 11	49.6 17	28.8 21	25.6 20	22.0 20	20.6 21	18.7 21	16.
1951	912.0 1	337.0 1	152.0 1	88.6 1	53.8 5	36.6 10	35.5 6	32.7 7	28.7 7	19.
1952	577.0 4	245.0 3	136.0 3	81.3 2	56.8 3	51.5 3	46.2 2	42.5 2	37.5 2	26.
1953	202.0 18	109.0 17	81.1 13	59.5 10	49.1 7	42.3 5	39.3 5	37.4 5	33.9 4	22.
1954	197.0 19	94.0 20	53.3 21	37.5 21	23.9 23	20.7 22	19.8 22	18.8 22	16.6 22	10.
1955	429.0 7	191.0 6	103.0 8	59.1 11	31.9 19	20.5 23	18.0 24	17.0 24	15.2 23	12.
1956	176.0 20	102.0 18	67.0 18	46.5 19	35.3 18	33.1 12	28.6 13	24.7 16	19.5 20	14.
1957	604.0 3	231.0 4	112.0 4	62.1 9	40.6 15	33.1 13	28.3 14	28.3 12	25.5 11	15.
1958	380.0 8	162.0 9	108.0 6	79.9 3	61.8 1	51.9 2	46.7 1	44.5 1	38.6 1	29.
1959	123.0 23	65.3 23	47.1 22	36.9 22	26.9 22	22.5 21	20.8 21	20.8 20	20.6 18	16.
1960	797.0 2	311.0 2	147.0 2	78.7 4	49.4 6	29.3 18	27.0 17	26.7 15	23.7 14	20.
1961	303.0 12	145.0 14	98.3 9	70.7 5	58.7 2	54.3 1	44.1 3	41.6 3	33.1 5	23.
1962	204.0 17	102.0 19	63.0 19	50.8 15	43.2 11	40.4 6	31.5 10	28.1 13	23.3 15	16.
1963	226.0 15	151.0 12	78.6 15	53.3 13	41.7 13	32.3 14	27.6 15	23.7 17	20.1 19	12.
1964	138.0 21	84.0 21	57.9 20	38.3 20	36.1 17	30.8 16	27.1 16	27.8 14	24.6 13	16.
1965	136.0 22	65.3 24	42.4 23	27.0 24	23.2 24	20.5 24	18.8 23	18.0 23	15.1 24	10.
1966	85.0 25	60.0 25	37.6 25	22.6 25	18.9 25	12.4 25	11.1 25	10.1 25	8.5 25	5.
1967	338.0 10	158.0 11	80.3 14	49.1 18	45.3 10	29.4 17	25.3 19	23.6 19	21.8 16	18.

1-4825.00 SALEM RIVER AT WOODSTOWN, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	330.360	153.196	86.032	55.424	40.920	33.680	30.012	28.420	24.908	18.096
VARIANCE	44411.582	5358.848	1017.634	294.739	137.134	114.501	84.997	76.037	56.072	28.851
STD DEV	210.741	73.204	31.900	17.168	11.710	10.701	9.219	8.720	7.488	5.371
SKEWNESS	1.337	.922	.394	.040	-.097	.225	.170	.097	-.029	-.197
SE OF SKEW	.464	.464	.464	.464	.464	.464	.464	.464	.464	.464
SER CORR	.113	.047	.071	.182	.055	.142	.161	.179	.253	.244
C OF VAR	.638	.478	.371	.310	.286	.318	.307	.307	.301	.297

LOGS

MEAN OF	2.441	2.138	1.904	1.721	1.593	1.504	1.455	1.431	1.374	1.235
VAR OF	.071	.044	.029	.022	.019	.023	.021	.022	.022	.023
STD DEV OF	.267	.209	.170	.148	.136	.150	.146	.148	.148	.152
SKEW OF	.075	-.079	-.328	-.732	-.661	-.723	-.790	-.886	-1.060	-1.350
SE OF SKEW OF	.464	.464	.464	.464	.464	.464	.464	.464	.464	.464
SER CORR OF	.076	.039	.066	.247	.082	.213	.231	.248	.301	.294
C OF VAR OF	.109	.098	.089	.086	.085	.100	.100	.103	.108	.123

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	68.419	43.607	29.357	19.906	16.299	11.953	10.820	9.901	8.340	5.512
1.05	101.846	61.598	40.668	28.206	22.206	16.988	15.387	14.359	12.445	8.727
1.11	126.266	73.870	47.966	33.359	25.802	20.125	18.211	17.123	14.994	10.748
1.25	164.238	91.836	58.114	40.219	30.535	24.311	21.949	20.776	18.339	13.386
2.00	273.840	138.314	81.927	54.844	40.523	33.277	29.820	28.382	25.128	18.550
5.00	461.557	206.448	112.050	70.520	51.220	42.950	38.065	36.126	31.644	23.036
10.00	609.037	253.621	130.441	78.698	56.851	48.023	42.268	39.946	34.648	24.863
25.00	821.297	315.014	152.077	87.129	62.727	53.273	46.516	43.692	37.417	26.359
50.00	998.120	361.836	167.152	92.320	66.396	56.519	49.081	45.887	38.941	27.087
100.00	1190.945	409.472	181.431	96.771	69.580	59.308	51.246	47.693	40.131	27.599

STATISTICS OF MONTHLY MEANS, 1943-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1943-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT.	10.91	4.848	.7525	.4445	5.012	.324	.9947	.2036	-.4375	.2047	7.143	.403
NOV	18.05	9.624	1.124	.5333	8.292	.188	1.195	.2449	-.5079	.2048	8.584	.412
DEC	21.53	10.45	1.161	.4855	9.894	.355	1.284	.2169	-.5273	.1689	9.223	.524
JAN	23.92	9.986	.1825	.4175	10.99	.531	1.335	.2131	-.9854	.1596	9.587	.636
FEB	27.45	9.354	.3108	.3408	12.61	.517	1.413	.1545	-.2378	.1094	10.15	.510
MAR	29.14	9.976	.3709	.3424	13.39	.442	1.438	.1626	-.7994	.1131	10.32	.459
APR	22.66	9.752	.4912	.4304	10.41	.721	1.315	.1949	-.1940	.1482	9.442	.698
MAY	16.31	8.377	.8950	.5134	7.497	.519	1.159	.2230	-.0177	.1924	8.320	.596
JUN	11.11	6.425	1.440	.5782	5.107	.538	.9832	.2384	.0015	.2425	7.060	.494
JUL	11.54	8.702	1.235	.7541	5.302	.249	.9015	.4419	-.9027	.4902	6.473	.454
AUG	12.97	12.36	1.724	.9527	5.961	.369	.9392	.4226	-.5896	.4500	6.745	.492
SEP	12.04	10.29	2.350	.8549	5.531	.096	.9681	.3090	.3595	.3192	6.952	.368

1-4830.00 ALLOWAY CREEK AT ALLOWAY, N. J.

Location.--Lat 39°33'55", long 75°21'35", at Alloway Lake Dam.Drainage area.--21.9 sq mi.Remarks.--Regulation reduces flood peaks and is significant at low flow.

DURATION TABLE OF DAILY DISCHARGE

CLASS	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		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS DAYS		
1953	13	1								1			5	45	38	30	19	15	56	58	25	19	16	9	8	1	4	2								11485.4	
1954								6	2	13	5	29	29	26	23	24	70	49	43	22	10	6	3	3	1		1									6216.3	
1955							1	14	8	9	1	15	48	40	23	30	48	44	33	14	16	4	10	3	2		1		1							6588.8	
1956												1	9	68	44	64	47	33	46	17	15	10	4	4	2	2										7015.7	
1957	3							3	31	19	19	12	20	23	21	28	43	40	29	20	42	5	2	2	1	1										8951.8	
1958	5					1						5	5	4	5	58	49	34	39	40	45	31	17	11	7	4	3	1	1							12942.7	
1959											1	3	9	45	22	19	58	38	94	32	14	13	9	4	4											8487.3	
1960										2	2	11	11	27	20	28	52	44	78	33	22	11	9	8	2	2	1	1	1							10777.0	
1961	11						1								37	18	11	36	55	58	50	29	22	14	9	6	5		2	1						12138.1	
1962	61	1				1			1			14	28	30	34	27	40	23	31	25	17	11	9	4	2	3	2									7089.7	
1963	17						1		3	9	9	27	24	30	27	44	64	32	29	19	8	7	7	4	1	1	1	1								6423.5	
1964												4	43	17	51	27	24	25	34	56	33	12	12	8	9	8	2	1								8656.9	
1965	18							2	9	26	14	39	15	59	20	22	48	17	30	15	23	3	3	1	1												5013.5
1966	9	2	1	9	3	14	6	18	14	3	12	20	43	72	48	29	20	13	14	7	5		2	1												3138.7	
1967	3											11	14	29	52	36	58	57	23	28	17	10	10	4	6	4	2			1						9207.3	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	140	5478	100.0	9	2.00	95	5216	95.2	18	22.0	670	1881	34.3	27	250	7	14						
1	0.10	3	5338	97.4	10	2.60	67	5121	93.5	19	29.0	422	1211	22.1	28	330	5	7						
2	0.20	2	5335	97.4	11	3.30	237	5054	92.3	20	38.0	278	789	14.4	29	430								
3	0.30	9	5333	97.4	12	4.40	269	4817	87.9	21	50.0	201	511	9.3	30	560								
4	0.50	3	5324	97.2	13	5.70	583	4548	83.0	22	65.0	126	310	5.7	31	740	2	2						
5	0.60	16	5321	97.1	14	7.50	424	3965	72.4	23	85.0	76	184	3.4	32									
6	0.80	9	5305	96.8	15	9.80	467	3541	64.6	24	110.0	52	108	2.0	33									
7	1.10	41	5296	96.7	16	13.00	662	3074	56.1	25	150.0	25	56	1.0	34									
8	1.50	39	5255	95.9	17	17.00	531	2412	44.0	26	190.0	17	31	0.6										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

ALLOWAY CREEK AT ALLOWAY, N. J.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1953	4.5 13	4.9 13	5.4 13	6.1 12	7.4 12	7.9 10	8.5 10	9.3 9	12.5 9	24.6
1954	1.4 9	1.4 9	1.4 6	1.8 6	2.9 6	3.3 5	4.1 4	5.5 4	6.9 3	14.8
1955	0.8 8	1.0 8	1.2 5	1.4 5	1.6 3	5.5 8	6.6 8	9.5 10	15.6 12	19.8
1956	3.0 1	0.0 1	4.8 12	6.2 13	7.7 13	8.2 11	11.5 11	12.5 11	13.5 10	27.0
1957	0.0 2	0.0 2	1.5 7	2.3 7	2.4 4	2.8 2	3.7 3	5.3 3	7.4 5	23.0
1958	10.0 14	10.0 14	11.1 14	12.6 14	16.4 14	20.3 14	23.6 14	23.5 14	25.7 13	32.0
1959	2.9 12	3.4 12	4.4 11	5.5 11	6.1 10	10.3 13	12.9 13	15.1 13	15.0 11	24.1
1960	0.0 3	0.0 3	3.0 9	3.6 10	6.3 11	9.1 12	12.2 12	15.0 12	26.5 14	35.8
1961	0.0 4	0.0 4	0.0 1	0.0 1	4.4 9	6.4 9	7.8 9	8.6 8	10.1 8	23.5
1962	0.0 5	0.0 5	0.0 2	0.0 2	0.0 1	3.3 3	5.5 6	5.7 5	8.0 6	20.5
1963	1.7 10	1.7 10	1.9 8	3.2 8	3.5 7	4.5 7	6.2 7	7.4 7	8.3 7	21.1
1964	2.9 11	2.9 11	3.1 10	3.4 9	4.0 8	4.4 6	5.2 5	5.8 6	6.6 2	18.2
1965	0.0 6	0.0 6	0.0 3	0.0 3	2.7 5	3.3 4	3.3 2	3.5 2	4.1 1	8.1
1966	0.0 7	0.0 7	0.0 4	0.1 4	0.5 2	1.2 1	1.4 1	3.0 1	7.0 4	19.2

1-4830.00 ALLOWAY CREEK AT ALLOWAY, N. J.

LOWEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1 [†]	3 [†]	7 [†]	14 [†]	30 [†]	60	90	120	183	ANNUAL
MEAN	3.457	3.614	3.780	4.200	5.069	6.464	8.036	9.264	11.943	22.264
VARIANCE	9.816	9.731	8.862	11.588	16.477	22.953	32.013	31.624	47.646	46.476
STD DEV	3.133	3.120	2.977	3.404	4.059	4.791	5.658	5.624	6.903	6.817
SKEWNESS	1.881	1.740	1.831	1.538	1.919	1.978	1.690	1.342	1.276	.044
SE OF SKEW	.794	.794	.687	.661	.616	.597	.597	.597	.597	.597
SER CORR	-.270	-.231	-.159	-.073	-.081	.131	.171	.295	.159	.278
C OF VAR	.906	.863	.788	.811	.801	.741	.704	.607	.578	.306

LOGS

MEAN OF	.408	.437	.475	.434	.579	.715	.812	.898	1.017	1.325
VAR OF	.129	.118	.095	.300	.139	.091	.093	.064	.054	.024
STD DEV OF	.359	.344	.308	.547	.373	.302	.304	.253	.233	.155
SKEW OF	.353	.449	.398	-1.910	-.786	-.123	-.326	.133	.346	-1.372
SE OF SKEW OF	.794	.794	.687	.661	.616	.597	.597	.597	.597	.597
SER CORR OF	-.300	-.246	-.215	-.014	.037	.184	.299	.411	.298	.258
C OF VAR OF	.878	.786	.649	1.261	.645	.421	.375	.281	.229	.117

† Zero flow values excluded in computation of statistics.

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III LOW-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1 ^{††}	3 ^{††}	7 ^{††}	14 ^{††}	30 ^{††}	60	90	120	183	ANNUAL
100.00	.465	.565	.706	.031	.319	.970	1.076	2.167	3.435	6.625
20.00	.719	.830	1.012	.221	.783	1.619	1.926	3.111	4.560	10.606
10.00	.921	1.039	1.246	.521	1.203	2.115	2.587	3.790	5.360	13.123
5.00	1.265	1.390	1.627	1.236	1.937	2.908	3.645	4.836	6.587	16.417
2.00	2.439	2.580	2.849	3.943	4.237	5.267	6.735	7.814	10.090	22.872
1.25	5.038	5.206	5.331	7.325	7.907	9.350	11.793	12.857	16.146	28.456
1.11	7.571	7.779	7.603	8.633	10.337	12.521	15.480	16.803	21.017	30.710
1.04	11.948	12.263	11.341	9.497	13.209	16.996	20.376	22.481	28.230	32.539
1.02	16.240	16.706	14.858	9.811	15.157	20.638	24.135	27.216	34.423	33.420
1.01	21.580	22.289	19.099	9.979	16.932	24.523	27.953	32.390	41.362	34.034

†† Zero flow values excluded in computation of curve.

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ALLOWAY CREEK AT ALLOWAY, N. J.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1953	266.0 8	147.0 9	127.0 4	89.0 5	74.0 3	63.3 2	58.5 2	55.2 3	50.1 1	31.5
1954	233.0 10	132.0 11	77.1 12	53.9 12	37.2 12	30.6 13	29.0 13	28.2 12	25.8 12	17.0 1
1955	330.0 6	160.0 8	117.0 7	75.1 7	42.5 11	29.2 14	26.1 14	23.8 14	21.9 14	18.1 1
1956	176.0 12	142.0 10	98.0 9	65.3 10	48.7 10	44.1 9	38.1 8	32.8 10	27.1 11	19.2 1
1957	740.0 2	341.0 2	170.0 2	97.4 3	64.8 5	52.7 5	44.5 4	46.3 4	40.5 4	24.5
1958	385.0 4	216.0 5	116.0 8	90.3 4	67.7 4	61.4 3	56.7 3	57.6 2	48.6 3	35.5
1959	149.0 13	104.0 13	60.4 13	46.3 13	37.0 13	34.4 11	31.6 11	30.3 11	29.5 9	23.3
1960	1040.0 1	507.0 1	237.0 1	125.0 1	75.7 2	43.9 10	37.8 9	38.1 8	34.1 6	29.4
1961	373.0 5	210.0 6	150.0 3	113.0 2	80.1 1	76.8 1	65.6 1	61.2 1	49.3 2	33.3
1962	238.0 9	160.0 7	94.1 10	72.2 9	63.5 6	57.0 4	43.2 6	39.3 6	30.6 8	19.4
1963	274.0 7	219.0 4	119.0 5	82.8 6	60.2 8	44.6 8	37.7 10	33.1 9	27.9 10	17.6 1
1964	200.0 11	126.0 12	94.0 11	60.9 11	58.0 9	49.8 6	43.7 5	44.8 5	40.0 5	23.7
1965	137.0 14	82.3 14	58.1 14	41.5 14	37.0 14	33.5 12	30.6 12	28.1 13	22.3 13	13.7 1
1966	93.0 15	68.3 15	44.1 15	29.8 15	27.0 15	18.1 15	17.5 15	15.9 15	13.1 15	8.6 1
1967	427.0 3	220.0 3	118.0 6	74.3 8	63.5 7	48.1 7	42.2 7	38.7 7	32.3 7	25.2

1-4830.00 ALLOWAY CREEK AT ALLOWAY, N. J.

HIGHEST MEAN DISCHARGE, IN CFS, FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS (continued)

	1	3	7	15	30	60	90	120	183	ANNUAL
MEAN	337.400	188.973	111.987	74.453	55.793	45.833	40.187	38.227	32.873	22.6
VARIANCE	62682.937	12379.285	2358.613	690.544	270.907	233.429	165.580	166.373	119.468	56.5
STD DEV	250.366	111.262	48.566	26.278	16.459	15.278	12.868	12.899	10.930	7.5
SKEWNESS	1.965	1.886	1.111	.214	-.269	.179	.379	.312	.208	.0
SE OF SKEW	.580	.580	.580	.580	.580	.580	.580	.580	.580	.5
SER CORR	-.099	-.045	.001	.170	.120	.145	.027	.066	.095	.2
C OF VAR	.742	.589	.434	.353	.295	.333	.320	.337	.332	.3

LOGS

MEAN OF	2.442	2.220	2.012	1.844	1.726	1.636	1.582	1.558	1.492	1.3
VAR OF	.075	.050	.036	.028	.020	.026	.022	.024	.025	.0
STD DEV OF	.274	.224	.188	.168	.142	.160	.147	.156	.157	.1
SKEW OF	.468	.403	-.186	-.653	-.680	-.778	-.554	-.545	-.695	-.8
SE OF SKEW OF	.580	.580	.580	.580	.580	.580	.580	.580	.580	.5
SER CORR OF	-.067	.058	.037	.180	.097	.142	.064	.104	.151	.2
C OF VAR OF	.112	.101	.094	.091	.082	.098	.093	.100	.105	.1

DISCHARGE, IN CFS, FOR LOG-PEARSON TYPE III HIGH-FLOW FREQUENCY CURVES FOR FOLLOWING NUMBER OF CONSECUTIVE DAYS

RECURRENCE INTERVAL (YEARS)	1	3	7	15	30	60	90	120	183	ANNUAL
1.01	79.353	58.337	35.321	23.664	21.276	15.006	15.158	13.563	11.199	7.1
1.05	107.229	75.657	49.251	34.631	29.453	22.014	20.829	18.979	16.094	10.7
1.11	127.982	87.936	58.488	41.670	34.477	26.451	24.352	22.392	19.178	12.9
1.25	161.107	106.710	71.672	51.294	41.129	32.426	29.076	27.018	23.334	16.0
2.00	263.217	160.156	104.187	72.762	55.262	45.333	39.400	37.298	32.376	22.5
5.00	460.990	252.421	148.602	97.253	70.471	59.260	51.080	49.161	42.345	29.3
10.00	635.927	326.704	177.579	110.696	78.483	66.505	57.537	55.813	47.667	32.7
25.00	916.505	436.929	213.541	125.099	86.831	73.927	64.547	63.105	53.251	36.1
50.00	1175.207	531.814	239.834	134.280	92.032	78.459	69.086	67.865	56.744	38.1
100.00	1482.319	638.413	265.706	142.363	96.535	82.314	73.141	72.142	59.774	39.7

STATISTICS OF MONTHLY MEANS, 1953-1967

STATISTICS OF LOGS OF MONTHLY MEANS, 1953-1967

	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR	MEAN	STD DEV	SKEW	C OF VAR	PCT MEAN YR VOL	SER CORR
OCT	13.03	9.049	.9228	.6947	4.773	.548	1.012	.3204	-.1911	.3166	6.890	.547
NOV	21.74	14.29	1.868	.6574	7.965	.242	1.258	.2768	-.1973	.2200	8.565	.262
DEC	25.43	10.21	-.1941	.4015	9.320	.586	1.362	.2195	-1.210	.1612	9.273	.633
JAN	31.27	15.57	.4910	.4979	11.46	.615	1.438	.2436	-.6245	.1694	9.789	.772
FEB	37.97	15.17	1.455	.3996	13.91	.587	1.551	.1611	.3104	.1039	10.56	.611
MAR	40.86	13.87	.1004	.3395	14.97	.312	1.585	.1631	-.7663	.1029	10.79	.393
APR	32.16	17.20	.5771	.5350	11.78	.431	1.445	.2483	-.2192	.1718	9.837	.386
MAY	20.34	12.46	1.595	.6126	7.452	.694	1.246	.2324	.5421	.1865	8.483	.653
JUN	10.65	5.390	.4477	.5063	3.901	.642	.9687	.2430	-.3826	.2508	6.595	.426
JUL	10.36	9.256	1.082	.8930	3.798	.513	.8197	.4722	-.5602	.5760	5.581	.636
AUG	14.52	14.98	1.468	1.032	5.319	.386	.9719	.4138	.3950	.4257	6.617	.529
SEP	14.59	17.37	3.527	1.191	5.345	.138	1.031	.3041	1.278	.2948	7.022	.467

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